COMPLETE CATALOGUE 2012/2013

Innovative products for the professional user.





Bachmann International. Build on the best connections.

Bachmann makes connections. To ensure that power and data are available right where you need them. For industrial, commercial and home applications, in offices and training rooms, on desks and on conference tables. Bachmann facility and IT systems are flexible enough that you can modify them at any time to suit future power or data management needs. And with Bachmann's up-to-the-minute range of electrical components you can be sure of satisfying even your customers' more unusual electrical and electronics requirements.

One of Bachmann's primary objectives is to deliver innovative products to help our customers achieve long-term success. For this reason we exploit all the possibilities offered by professional engineering and modern process management to develop our standardised and customised systems and products.

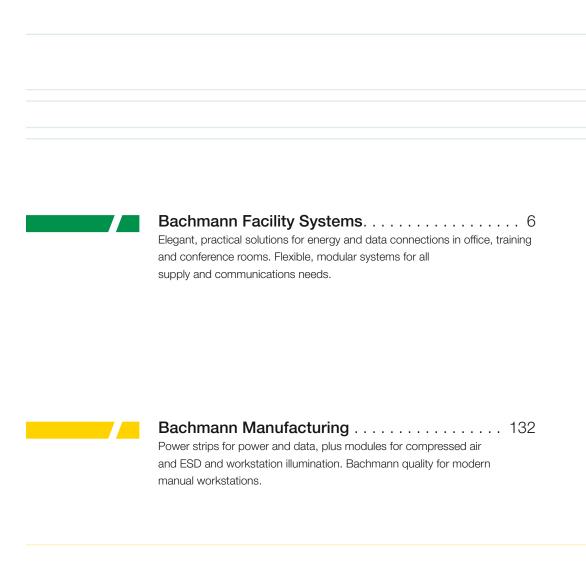
Consider, for example, energy management optimisation and the efficient use of energy. Day after day our technical specialists help you tap into new scope for energy efficiency with the aid of intelligent new products. Discuss your projects with us if you would like to improve your connections. We will be there from the initial in-depth consultation, supply you with components and modules ready for installation and assist you in planning and developing your specific solutions. And we will use every opportunity to exceed your expectations of us and our systems. We look forward to making the best connections for you – and with you.

Quality at all levels

Do not be satisfied until you have the optimum solution. A philosophy that applies at every level of our company and that is consistently deployed by all our employees.

The result: products to match the best on the world's markets, outside and inside. This is also evident from our certification to DIN EN ISO 9001:2000.







Bachmann IT Power Distribution. 150

Distribution systems offering efficient energy management for modern IT solutions. Everything from power for control cabinets to high-quality built-in electronic components.





Bachmann Electrics 188

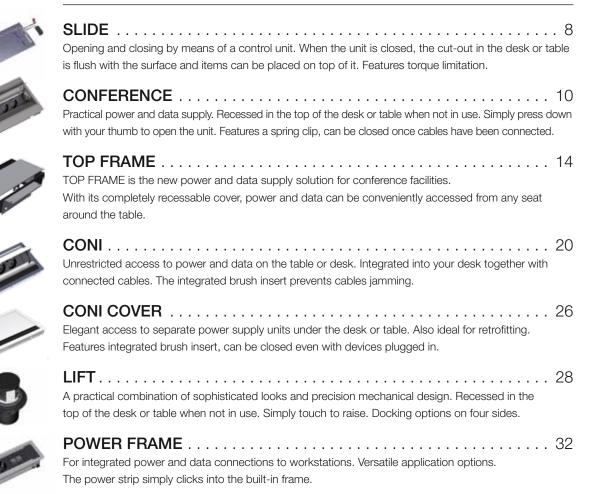
Our extensive range of electrical and electronics products. Everything the technician needs, and always the state of the art - trusted components, high quality products.

Bachmann Facility Systems

Plug into a world of opportunities.

With Bachmann facility systems, you can be sure of having access to the best connectors and connections wherever you are in the world. Our systems are configurable with all standard international socket outlets and data connections. Modules can be retrofitted or interchanged quickly and easily. In short, when it comes to energy and data management systems that are fit for the future, Bachmann maximises your options. There are however two areas in which we offer no flexibility: our high-quality design and our consistent quality.

Desk connection panels / Fitting in desks



Desk connection panels / Fitting on desks





Desk connection panels / Mounting below desks

For flexible power and data supply at workstations, in partition systems, false floors, etc. Consistently modular throughout, making the possibilities virtually endless.

Custom modules

The word CUSTOM appears in this catalogue wherever the modules can be flexibly interchanged. CUSTOM MODULES: Bachmann facility systems can be adapted to perfectly match individual requirements for data, video and audio connections.

Media technology

Plug-and-play for simplicity and efficiency.

Flexible and reliable thanks to high-quality components.

Simple control of complex processes in media and facility applications.

LanLight[®], the smart supply system

LanLight [®] system overview	38
Basic unit and inserts	12
Lift covers	14

Modern floor boxes for dry-cleaned floors

Mobile pillars for power and data distribution in raised and false floors

Consolidation points

Underfloor distributors for power and data.











LanLight





ACCESSORIES, CABLES AND CABLE MANAGEMENT. 120



SLIDE Functionality at the touch of a button

SLIDE opens and closes at the touch of a button. When the unit opens, the integrated electronics slides the cut-out in the desk or table down beneath its surface, providing free access to the power and data supply modules. When the unit is closed, the desk or table cut-out is flush with the surface making for a very practical solution.

Electronically controlled torque limitation protects users and cables. There is no risk of fingers or power supply cables becoming trapped or crushed. The SLIDE is available in various configurations and power strips are easily interchangeable.

SLIDE – the unobtrusive way of releasing functions when they are needed. Simply at the touch of a button.

The advan-	Opens and closes at the touch of a button
tages at a	 Can withstand weight when closed
glance	• Fully integrated into the top of your desk or table
	Torque limitation ensures safety
	Power strip can be interchanged easily
	1

SLIDE hou	using	Black	
913.000	Module for mounting in desk or table systems		
	· Complete kit incl. motion mechanism, control electronics and fixing materials		
	Incl. mounting frame for 2 power strips, short (see page 18)		
	\cdot Incl. stainless steel button with 2.0 m control cable and plug for controlling the SLIDE		
	 Suitable for installation in desk or table tops (thickness must be adapted to 8 mm) Incl. cut-out drawing for preparation of tabletop Dimensions (L x W x H): approx. 725 x 340.5 x 70.3 mm 		
SLIDE hou	using illuminated	Black	
913.005	· Mounting frame for fitting in desk or table systems		
	· Complete kit incl. motion mechanism, control electronics and fixing materials		
	 With 2 blue LED striplights that light up when open Incl. mounting frame for 2 power strips (see page 18) 		
	\cdot Incl. stainless steel button with 2.0 m control cable and plug for controlling the SLIDE		
	 Suitable for installation in desk or table tops (thickness must be adapted to 8 mm) Incl. cut-out drawing for preparation of tabletop Dimensions (L x W x H): approx. 725 x 340.5 x 70.3 mm 		



SLIDE – a user-friendly solution even at installation stage.

All set for quick fitting

The SLIDE module screws onto the underside of your tabletop or desktop. The screw fixtures are designed for tops up to 20 mm thick. If the thickness is more than 20 mm you will need to rout the area around the SLIDE module housing down to 20 mm.

The dimensions of the sliding panel in the tabletop are approx. (L x W) 302.5×236 mm. The built-in frame for the socket outlets is attached to the SLIDE module using the screws included in the scope of supply. Power strips (short version) can also be attached to this built-in frame and interchanged if required. You will find power strips on page 18.

Sealed cables can also be supplied.

The SLIDE module's moving carriage is opened and closed using a pushbutton. The carriage itself has an "elongated slot" so that cables can be routed even when the unit is closed. Customers can choose whether to also include this slot in the table or desk top in the design of the cut-out.

Electronics for safety

As soon as a resistance is felt by the moving "carriage", the electronics will bring it to a halt. This prevents fingers and cables getting trapped, avoiding possible injuries or damage.

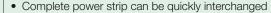
Ideal for conference and training desks and tables and high-grade workstations alike, CONFERENCE is a truly refined and discreet solution for individual access to power and data connections.

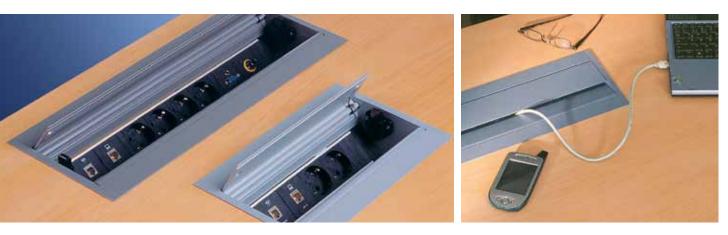
When not in use, CONFERENCE is hidden in the top of the desk or table. When you need power or data, press with your thumb to release the magnetic catch and the opening flap swings up. Once you have connected your notebook, projector, microphone, etc. the flap can be closed again. The narrow closing flap opposite adapts to the inserted tables – nothing is squashed and the elegant appearance of the desk or table is preserved.

CONFERENCE built-in frames are available both for surface mounting (e.g. if retrofitting) and for flush mounting in the tops of desks and tables. Where installed under a desk or table, the opening and closing flaps are flush with the table or desk top. As we can supply flaps on request in almost any coating and even ready for veneer finishing, CONFERENCE is able to meet the most stringent of requirements in terms of elegant looks and harmonious design.

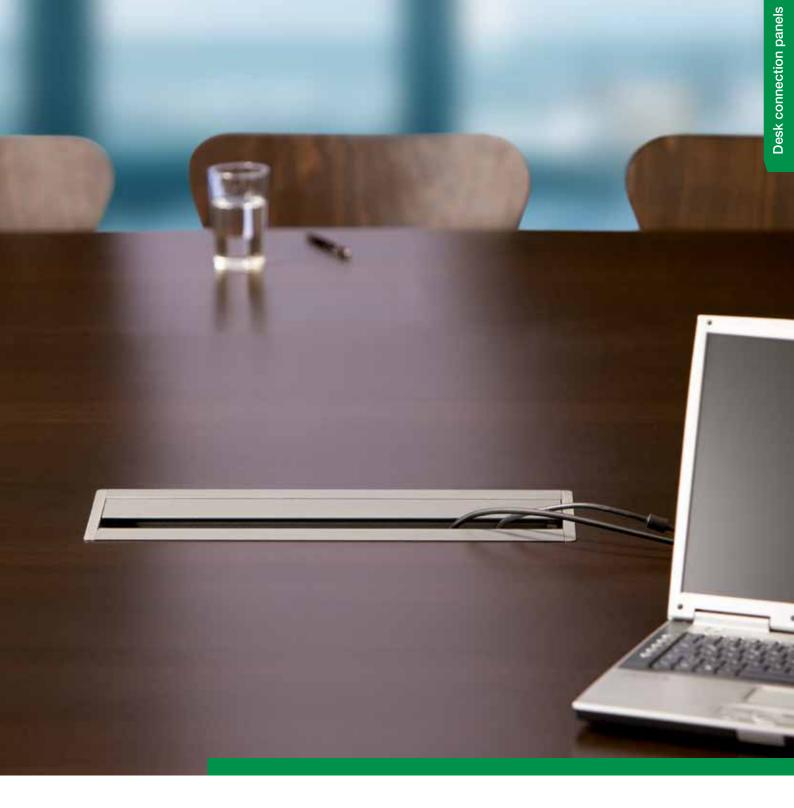
The configuration of CONFERENCE data connections can be freely selected. Power strips can also be interchanged quickly and at any time, without the need for tools. Maximum functionality and top-end design can therefore be adapted to advancements in communication technology for many years to come.

The advan-	Integrated into your desk or table top
tages at a	Simply press with your thumb to open
glance	 Flap can be closed with cables connected
	• For both surface mounting (e.g. if retrofitting) and
	flush mounting
	Can be fitted flush with the tabletop
	Suitable for veneer finishing
	Configuration can be freely selected
	(see custom modules from page 54)
	- Openediate a success static same land an distribution to the second



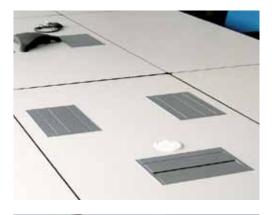


Simply press with your thumb to open CONFERENCE. Thanks to its flexible closing flap, the unit can even be closed once devices have been plugged in without crushing the cables.



CONFERENCE Setting a design standard.

CONFERENCE - as versatile as you need.











The dimensions of the cut-out are included in the frame packaging materials. They are also available by e-mail or can be downloaded from www.bachmann.com

Simple built-in frame fitting

The built-in frame is very easy to install – only standard tools are required. Simply make a rectangular cut-out in the top of your desk or table.

Frameless

Conference under-table mounting frames (frameless) are fitted from the underside of the tabletop. Thus only the pivoting flaps are visible on the tabletop. The drawings containing the special details of the table cut-out are supplied with the unit or can be downloaded from www.bachmann.com. If required, the flaps can be removed from the frame by means of the integrated bayonet catch. You can also custom match the flaps to the finish of your tabletop by gluing on a suitable veneer (this is not done ex works).



Power strip simply clicks into place

The power strip is not supplied with the built-in frame and must be ordered separately.

It simply clicks into the built-in frame (tools are not required).

Since the power strip can be interchanged at any time, the user is guaranteed long-term flexibility and adaptability to future requirements.

CONFERENCE with frame

- \cdot Chamfered side panels, can be flush-mounted on desk or table surface
- Incl. quick-change mechanism for swapping power strips
- \cdot Incl. fixing claws and fitting instructions with cut-out dimensions

Art. no.	Version	
CONFERE 338.0200	NCE built-in frame, long Moonstone metallic · Outer dimensions: approx. 466.1 x 182.4 mm, built-in dimensions: approx. 450.1 x 166.4 mm · Built-in depth: 110 mm	
CONFERE 338.0201	NCE built-in frame, shortMoonstone metallic• Outer dimensions: approx. 284.6 x 182.4 mm, built-in dimensions: approx. 268.6 x 166.4 mm• Built-in depth: 110 mm	
CONFERE 338.0221	NCE built-in frame, long RAL9006, silver-grey • Outer dimensions: approx. 466.1 x 182.4 mm, built-in dimensions: approx. 450.1 x 166.4 mm • Built-in depth: 110 mm	
CONFERE 338.0219	NCE built-in frame, shortRAL9006, silver-grey• Outer dimensions: approx. 284.6 x 182.4 mm, built-in dimensions: approx. 268.6 x 166.4 mm• Built-in depth: 110 mm	
CONFERE 338.0212	NCE built-in frame, longChrome effect paint finish• Outer dimensions: approx. 466.1 x 182.4 mm, built-in dimensions: approx. 450.1 x 166.4 mm• Built-in depth: 110 mm	9
CONFERE 338.0210	NCE built-in frame, shortChrome effect paint finish• Outer dimensions: approx. 284.6 x 182.4 mm, built-in dimensions: approx. 268.6 x 166.4 mm• Built-in depth: 110 mm	
CONFER	ENCE frameless	
Art. no.	Version	
CONFERE 338.0230	NCE built-in frame for below table, long RAL9006, silver-grey • Dimensions (visible surface): approx. 448.2 x 134.2 mm • Built-in depth: 107 mm	1- 0
CONFERE 338.0231	NCE built-in frame for under table, shortRAL9006, silver-grey• Dimensions (visible surface): approx. 266.7 x 134.2 mm• Built-in depth: 107 mm	10- 0 M

TOP FRAME is the new power and data supply solution for conference facilities. With its completely recessable cover, power and data can be conveniently accessed from any seat around the table. The balanced geometry of TOP FRAME fits elegantly into the tabletop and allows it to be fitted with high-quality veneers.

TOP FRAME is also elegantly simple to open: just press lightly with a finger and it opens and closes again – silently.

With its surround frame, TOP FRAME is also suitable for retrofitting. The power strips can of course be interchanged in a flash and can be equipped with Bachmann's flexible custom modules.

TOP FRAME is available in various versions:

in EV1 anodised aluminium or powder-coated in RAL 9006. Other surface finishes are available on request. A veneer of up to 0.6 mm can also be glued to the flap without the dimensions of the cut-out having to be changed.

The power strip clips into the installation frame without tools. There is a short version with 4 modules and a long version with 8 modules to suit both TOP FRAME solutions.

The advan-	Access to power supply and data from any seat
tages at a	Opens silently
glance	 Integrated into your desk or table top
	Can be fitted flush with the tabletop
	• Version with surround frame suitable for retrofitting
	Suitable for veneer finishing
	Configuration can be freely selected
	• Complete power strip can be quickly interchanged



TOP FRAME opens silently and can also be conveniently operated from the seat opposite.



TOP FRAME Perfect elegance

TOP FRAME frameless

· Includes fixing accessories

Art. no. Version



TOP FRAM	1E	EV1 anodised
Frameless,	short – for 4-way power socket	
925.000	· Anodised EV1 aluminium flap, black powder-coated housing	
	· Dimensions (L x W x H): approx. 300 x 92 x 98 mm	



TOP FRAM	ME	EV1 anodised
Frameless,	, long – for 8-way power socket	
925.001	 Anodised EV1 aluminium flap, black powder-coated housing Dimensions (L x W x H): approx. 482.5 x 92 x 98 mm 	



TOP FRAM	ME	RAL 9006
Frameless	, short – for 4-way power socket	
925.002	· Aluminium flap RAL 9006, black powder-coated housing	
	· Dimensions (L x W x H): approx. 300 x 92 x 98 mm	

RAL 9006



TOP FRAME

925.003

Frameless, long – for 8-way power socket

· Aluminium flap RAL 9006, black powder-coated housing

· Dimensions (L x W x H): approx. 482.5 x 92 x 98 mm

TOP FRAME with frame

Includes fixing accessories

Art. no. Version

TOP FRAM	ME	RAL 9006
Asymmetri	ical surround frame, short – for 4-way power strip	
925.500	· Aluminium flap RAL 9006, black powder-coated housing	
	· Dimensions (L x W x H): approx. 340.5 x 162 x 98.35 mm	

TOP FRAM	1E	RAL 9006
Asymmetric	cal surround frame, long – for 8-way power socket	
925.501	Aluminium flap RAL 9006, black powder-coated housing	
	· Dimensions (L x W x H): approx. 583 x 162 x 110 mm	

TOP FRAM	ME	RAL 9006
Symmetric	al surround frame, short – for 4-way power strip	
925.800	· Aluminium flap RAL 9006, black powder-coated housing	
	· Dimensions (L x W x H): approx. 400.5 x 192 x 98.35 mm	

TOP FRAME Symmetrical surround frame, long - for 8-way power socket 925.801 \cdot Aluminium flap RAL 9006, black powder-coated housing · Dimensions (L x W x H): approx. 583 x 192 x 98.35 mm

> You will find power strips suitable for Slide, Conference and Top Frame on the next two pages









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FACILITY SYSTEMS

See glossary for country-specific information

Length: approx. 260 mm

Power cables and custom modules are available separately

	Art. no.	Version	
CUSTOM	4-way: 3x	custom modules + power socket outlet	Length: approx. 260 mm
	Anodised a	luminium profile; power input: GST18i3 plug, power output: GST18i3 so	cket
	909.002	\cdot 1 black socket outlet with earthing contact, set at 35°	
O date	909.025	\cdot 1 French / UTE socket outlet, child-proof, black, set at 35°	
0	909.028*	· 1 Swiss / CH socket outlet, black, set at 0°	
	909.065*	\cdot 1 Italian / earth contact combination, black, set at 35°	

CUSTOM	4-way: 2x custom modules + power socket outlets		Length: approx. 260 mm
	Anodised a	luminium profile; power input: GST18i3 plug, power output: GST18i3 soc	cket
	909.003	$\cdot2$ socket outlets with earthing contact, black, set at 35°	
1000	909.010	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°	
+	909.017	· 2 Swiss / CH socket outlets, black, set at 0°	
	909.029*	\cdot 2 Italian / earth contact combination, black, set at 35°	

сизтом	4-way: 1x	custom module + power socket outlets	Length: approx. 260 mm
	Anodised a	luminium profile; power input: GST18i3 plug, power output: GST18i3 s	ocket
	909.004	\cdot 3 socket outlets with earthing contact, black, set at 35°	
19:9:9 · 1	909.011	\cdot 3 French / UTE socket outlets, child-proof, black, set at 35°	
E.Y. 4	909.018	 4 Swiss / CH socket outlets, black, set at 0° 	
	909.058*	\cdot 3 Italian / earth contact combination, black, set at 35°	
	909.0023*	· 2 UK 3.15A individually fused, 45°	





 Anodised aluminium profile; without power connection

 909.000
 • without socket outlets

See glossary for country-specific information

Power cables and custom modules are available separately

Art. no. Version

8-way: 6x	custom modules + power socket outlet	Length: approx. 444 mm CUSTOM
Anodised a	luminium profile; power input: GST18i3 plug, power output: GST1	8i3 socket
909.005	\cdot 2 black socket outlet with earthing contact, set at 35°	
909.012	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°	
909.033*	\cdot 2 Swiss / CH socket outlets, black, set at 0°	+

8-way: 5x	custom modules + power socket outlet	Length: approx. 444 mm CUSTC
Anodised a	aluminium profile; power input: GST18i3 plug, power output: GS	ST18i3 socket
909.006	\cdot 3 black socket outlet with earthing contact, set at 35°	
909.013	\cdot 3 French / UTE socket outlet, child-proof, black, set at 35°	
909.0029*	· 2 UK 3.15A individually fused, child-proof 45°	

8-way: 4x	custom modules + power socket outlet	Length: approx. 444 mm CUSTO
Anodised a	luminium profile; power input: GST18i3 plug, power output: GST18	Ji3 socket
909.007	\cdot 4 black socket outlet with earthing contact, set at 35°	
909.014	\cdot 4 French / UTE socket outlet, child-proof, black, set at 35°	
909.019*	· 5 Swiss / CH socket outlets, black, set at 0°	+
909.050*	\cdot 4 Italian / earth contact combination, black, set at 35°	

		*
8-way: 3x c	custom modules + power socket outlet	Length: approx. 444 mm CUSTC
Anodised al	luminium profile; power input: GST18i3 plug, power output: G	GST18i3 socket
909.008	\cdot 5 black socket outlet with earthing contact, set at 35°	
909.015	\cdot 5 French / UTE socket outlet, child-proof, black, set at 35°	
909.020*	\cdot 6 Swiss / CH socket outlets, black, set at 0°	+
909.0027*	\cdot 3 UK 3.15A individually fused, child-proof 45°	

8-way: 2x	custom modules + power socket outlet	Length: approx. 444 mm CUSTOM
Anodised a	aluminium profile; power input: GST18i3 plug, power output: GST	18i3 socket
909.009	\cdot 6 black socket outlet with earthing contact, set at 35°	
909.016	\cdot 6 French / UTE socket outlet, child-proof, black, set at 35°	035

Length: approx. 444 mm CUSTOM

8-way: 8x custom modules Anodised aluminium profile; without power connection

909.001 · without socket outlets

CONFERENCE guide rail set

Art. no.	Version		
CONFERE	NCE guide rail set	Black	200
For power	strips (pages 20 – 21)		Community of the second second
940.099	· Guide rail, plastic, black		and the
	 Incl. 2 countersunk head screws 2.9 x 13 mm with Torx to DIN 7982 		

CONI brings flexibility to the desktop, for example in conference and training rooms. CONI facilitates unrestricted individual access to power, media and data right on the table or desk top. Minimal depth also means no restriction on leg movement under the desk or table, even where the units are fitted near the edge. Furthermore, a wide range of standard surface finishes ensure a high level of design freedom.

When not in use, CONI integrates into the surface of the desk or table. Should you need power, data or media, simply open the cover, plug into a socket and close the cover again. The integrated brush insert prevents cables jamming. The harmonious appearance of an "even" table is retained.

Configuration of CONI data connections can be freely selected (see custom modules from page 61). Power strips can also be interchanged quickly and at any time, without the need for tools. Integrated functionality and flexibility not just for today but also for the advancements of tomorrow.

The advan-	Integrated into your desk or table top	
tages at a	Minimum built-in depth, robust frame design	
glance	Integrated brush insert for closing once cables have	
	been connected	
	Configuration can be freely selected	
	(see custom modules from page 54)	
	Complete power strip can be quickly interchanged	
	Suitable for complete retrofitting	



CONI provides unrestricted access to power, media and data supplies. Thanks to the integrated brush insert, the cover can be closed once devices have been connected without jamming the cables.





CONI built-in frame, short and long version

Built-in depth is 56 mm, suitable for desk or table top thicknesses of 10 mm and above. The R5 corner radius facilitates flush mounting in desks or tables.

The brush strips can easily be replaced with colour strips; no tools are required. Simply remove the built-in frame from the top of the desk or table and unscrew the 3 re-usable plastic rivets. **CONI built-in frame short** Outer dimensions:

approx. 248 x 151 mm

CONI built-in frame long Outer dimensions: approx. 386,5 x 151 mm













Art. no.	Version	
CONI shore	rt	Silver-grey
	Silver-grey similar to RAL9006	
CONI long		Silver-grey
338.0205	Silver-grey similar to RAL9006	
CONI shore	rt	Anthracite
338.0204	· Anthracite	
CONI long		Anthracite
338.0206	· Anthracite	
CONI shore	rt	Chrome-plated
338.0214	· Chrome-plated	
CONI long		Chrome-plated
338.0227	· Chrome-plated	
CONI shore	rt	Satin white
911.000	Satin white RAL9010	
CONI long		Satin white
911.001	Satin white RAL9010	
CONI shore	rt	Black
911.002	· Black RAL9005	
CONI long		Black
911.003	· Black RAL9005	
CONI shore	rt	Stainless steel
911.004	· Ground stainless steel	
CONI long		Stainless steel
911.005	· Ground stainless steel	

CONI bracket

- For mounting CONI power strips without using a built-in frame, can be installed underneath the top of a desk or table in a cable tray, for example. Standard spax screws (which can be purchased from all good retailers) are required for mounting.
- · Takes account of the rear-side outlet and bending radii of power and data connections.

Art. no. Version

CONI mou	unting high	
918.002	· Black	
	· 2 pcs in plastic bag	
	· Distance between socket outlet profile and floor: 30 mm from floor to top edge	1
	Power strip: 74mm	
		- 1

CONI holder

- \cdot For optional mounting on CONI mounting frame (short and long version)
- \cdot Allows excess lengths of cable to be stowed when plugged in
- \cdot Easy to fit by hooking into mounting frame already fitted, using plastic rivets supplied.
- \cdot Small extra built-in depth of approx. 20 mm in addition to depth of mounting frame



Art. no. Version

CONI hold	ler	_
911.910	· Version for Coni mounting frame, short	
911.913	Version for Coni mounting frame, long	

CONI brushes

Art. no.	Version			
CONI brus	h strip short			
911.900	·Red		16.	
911.901	·Blue	1.		
911.902	·White			
911.903	· Yellow			
911.904	· Black			

CONI brush strip long				
911.905	·Red			
911.906	·Blue			
911.907	·White			
911.908	·Yellow			
911.909	· Black			

See glossary for country-specific information

Power cables and custom modules are available separately

	Art. no.	Version	
CUSTOM	3-way: 2x	custom modules + power socket outlet	Length: approx. 217 mm
	Anodised a	luminium profile; power input: 0.1m cable and GST18i3 plug	
	912.002	\cdot 1 black socket outlet with earthing contact, set at 35°	
	912.009	\cdot 1 French / UTE socket outlet, child-proof, black, set at 35°	
	912.016	\cdot 1 Swiss / CH socket outlet, black, set at 0°	
	912.0055*	\cdot 1 Italian / earth contact combination, black, set at 35°	

CUSTOM		3-way: 1x	custom module + power socket outlets	Length: approx. 217 mm
	_	Anodised a	luminium profile; power input: 0.1m cable and GST18i3 plug	
		912.003	\cdot 2 socket outlets with earthing contact, black, set at 35°	
19:9		912.010	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°	
	+	912.015	\cdot 3 Swiss / CH socket outlets, black, set at 0°	
+		912.037*	· 1 black socket outlet with earthing contact, set at 35°	
•			 1 Swiss / CH socket outlet, black, set at 0° 	
		912.045*	\cdot 2 UK 3.15A individually fused, child-proof 90°	

CUSTOM	3-way: 1x custom module + power socket outlets, black and red	Length: approx. 217 mm
	Anodised aluminium profile; power input: 2 x 0.1 m cable (black and	red) and GST18i3 plug (black)
	912.023* · 1 black socket outlet with earthing contact, set at 35°	
	\cdot 1 socket outlet with earthing contact, red, set at 35°	
000		
	3-way: 2x CAT5e + power outlet sockets	Length: approx. 217 mm
	Anodised aluminium profile; power input: 0.1m cable and GST18i3 p	olug
	333.1008 · 2 socket outlets with earthing contact, black, set at 35°	
	· 2 CAT5e RJ45, front: socket / rear: socket	
53.953		
	3-way: Power socket outlets	Length: approx. 217 mm
	Anodised aluminium profile; power input: 0.1m cable and GST18i3 p	blug
1.5 1	333.1007 3 socket outlets with earthing contact, black, set at 35°	
11.11.1		
СИЗТОМ	3-way: 3x custom modules	Length: approx. 217 mm
000101	Anodised aluminium profile; without power connection	Length. approx. 217 mm
	912.000 without socket outlets	
	912.000 Without socket outlets	

See glossary for country-specific information

Power cables and custom modules are available separately

Anodised a	custom modules + power socket outlet aluminium profile; power input: 0.1m cable and GST18i3 plug	Length: approx. 356 mm	CUSTOM
912.004			
I			CUSTOM
6-way: 4x d	 1 black socket outlet with earthing contact, set at 35° 	1	
	custom modules + power socket outlet	Length: approx. 356 mm	СИЗТОМ
Anodised a	aluminium profile; power input: 0.1m cable and GST18i3 plug		
912.005	\cdot 2 black socket outlet with earthing contact, set at 35°		5959 - 14 C
912.011	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°		6.9.
912.017	\cdot 3 Swiss / CH socket outlets, black, set at 0°		+
6-way: 3x (custom modules + power socket outlet	Length: approx. 356 mm	CUSTOM
Anodised a	aluminium profile; power input: 0.1m cable and GST18i3 plug		
912.006	\cdot 3 socket outlets with earthing contact, black, set at 35°		1.9
912.012	· 3 French / UTE socket outlets, child-proof, black, set at 35°		CALCULATION OF THE PARTY OF THE
912.018	 4 Swiss / CH socket outlets, black, set at 0° 		+
912.022*	· 3 UK 3.15A individually fused, child-proof 90°		
6			
	custom modules + power socket outlet aluminium profile; power input: 0.1m cable and GST18i3 plug	Length: approx. 356 mm	CUSTOM
912.007	\cdot 4 socket outlets with earthing contact, black, set at 35°		19.9.
912.013	4 French / UTE socket outlet, child-proof, black, set at 35°		
912.013	• 5 Swiss / CH socket outlets, black, set at 0°		
912.019 912.035*	1 black socket outlet with earthing contact, set at 35°		
912.000	3 Swiss / CH socket outlet, black, set at 0°		
-	custom module + power socket outlet	Length: approx. 356 mm	CUSTOM
1	aluminium profile; power input: 0.1m cable and GST18i3 plug		10.9.
912.008	5 socket outlets with earthing contact, black, set at 35°		59
912.014	• 5 French / UTE socket outlet, child-proof, black, set at 35°		
912.021*	 4 UK 3.15A individually fused, child-proof 90° 	i i i i i i i i i i i i i i i i i i i	
6-way: 1 x	custom module + power socket outlet, black and red	Length: approx. 356 mm	СИЗТОМ
Anodised a	aluminium profile; power input: 2×0.1 m cable (black and red) and 0	GST18i3 plug (black)	CUSTOM
912.024	\cdot 1 black socket outlet with earthing contact, set at 35°		(1)
	$\cdot2$ socket outlets with earthing contact, red, set at 35°		
6-way: 2 <u>x</u> e	custom module + power socket outlet, black and red	Length: approx. 356 mm	CUSTOM
Anodised a	aluminium profile; power input: 2 x 0.1 m cable (black and red) and (100
912.025	\cdot 2 socket outlets with earthing contact, black, set at 35°		(2).1
	\cdot 2 socket outlets with earthing contact, red, set at 35°		
6-way: 6x (custom module	Length: approx. 356 mm	CUSTOM
	aluminium profile; without power connection		
912.001	without socket outlets		110



CONI COVER Easy access.



CONI COVER is an elegant way of accessing separate power supply units or standard cable installation systems under the tops of desks and tables. It is ideal, for example, for desks and tables with built-in cable ducts. CONI COVER can of course also be retrofitted to existing equipment.

To access the connections under the desktop or tabletop, simply open the cover of the CONI COVER. Thanks to the integrated brush insert, the cover can even be closed again with devices connected. The harmonious appearance of an "even" table is retained.

CONI COVER, the refined cover for practical solutions - access couldn't be easier!

The advan-	Compatible with all makes of duct and
tages at a	furniture
glance	Ideal for retrofitting
	 Integrated brush insert for closing even
	when cables are connected

CONI COVER built-in frames are available in short and long versions. The R5 corner radius facilitates flush mounting in desks or tables. The built-in depth of 24 mm is suitable for a minimum desk or table top thickness of 16 mm. Fixing to the tabletop is with 4 screws. These are screwed on from the inside through corresponding holes on the long sides of the built-in frame. Fitting instructions and cut-out dimensions are supplied with the unit.

CONI COVER built-in frame short

Outer dimensions: 248 x 149 mm

Art. no. Version	
CONI COVER short	Silver-grey
338.0081 · Sheet steel silver-grey RAL9006 (similar)	
CONI COVER long	Silver-grey
338.0080 · Sheet steel silver-grey RAL9006 (similar)	
CONI COVER short	Satin white
911.500 · Satin white RAL9010	
CONI COVER long	Satin white
911.501 · Satin white RAL9010	
CONI COVER short	Black
911.502 · Black RAL9005	
CONI COVER long	Black
911.503 · Black RAL9005	*

CONI COVER and STEP. The expandable combination.

The modular design of the STEP power strips puts everything you need for your specific, customised supply of power and data at your fingertips. CONI COVER with its integrated brush insert provide access that is both fast and elegant. For STEP see from page 48.





Easy access to all power supply units located under the table or desk top – for example to modular STEP power strips.

LIFT is the totally practical combination of sophisticated looks and high-precision mechanical design. The unit is recessed neatly in the top of the desk or table when not in use. Simply touch to raise out of the desk or table ready for docking on all four sides. Once you have finished using the LIFT unit, simply push it back into its initial recessed position by hand.

LIFT can be supplied in a variety of power and data connection configurations. This highly compact unit needs a drill hole only 140 mm in diameter for installation. Built-in depth both open and closed is just 195 mm.

By setting cutting-edge technology in motion, LIFT makes power and data supply a truly enjoyable experience.

The advan-	 Simply touch to raise.
tages at a	Attractive looks all round
glance	Access points on four sides
	 Incredibly compact dimensions
	Low built-in depth
	• 4 plug-in units on 1 height unit



Simply touch to raise and lower LIFT. The unit has connection points on four sides and can be equipped with a variety of power and data connection configurations.



LIFT High-tech in motion.



Enclosure colour BLACK

Art. no. Version

	LIFT: power socket outlets				
	Enclosure colour black; power input: 0.5m cable and GST18i3 plug				
	904.000 · 4 socket outlets with earthing contact, black, set at 35°				
	904.004	· 4 French / UTE socket outlets, child-proof, black, set at 35°			
+	904.024*	 4 Swiss / CH socket outlets, black, set at 0° 			
	904.020*	\cdot 4 UK 3.15A individually fused, child-proof, set at 90°			



	LIFT: 2xCAT6 + power outlet sockets			
	Enclosure colour black; power input: 3.0 m cable and plug; 3.0 m data cable and RJ45 plug			
	904.001	\cdot 3 socket outlets with earthing contact, black, set at 35°		
	904.005	\cdot 3 French / UTE socket outlets, child-proof, black, set at 35°		
+	904.025*	· 3 Swiss / CH socket outlets, black, set at 0°		
	904.021*	· 3 UK 3.15A individually fused, child-proof, set at 90°		



	LIFT: 2xCA	LIFT: 2xCAT6, 1xVGA + mini stereo jack + power outlet sockets		
	Enclosure colour black; power input: 3.0 m cable and plug;			
	CAT6 3.0 m data cable and RJ45 plug; VGA 15-pole and mini stereo jack with 3.0 m cable and plug;			
	904.002	· 2 socket outlets with earthing contact, black, set at 35°		
	904.006	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°		
+	904.026*	· 2 Swiss / CH socket outlets, black, set at 0°		
	904.022*	\cdot 2 UK 3.15A individually fused, child-proof, set at 90°		



	Enclosure of	colour black; power input: 3.0 m cable and plug;
	CAT6 3.0 m	n data cable and RJ45 plug; USB A socket with 3.0 m cable and plug;
	904.003	· 2 socket outlets with earthing contact, black, set at 35°
	904.007	· 2 French / UTE socket outlets, child-proof, black, set at 35°
+	904.027*	· 2 Swiss / CH socket outlets, black, set at 0°
	904.023*	· 2 UK 3.15A individually fused, child-proof, set at 90°

UU

Enclosure colour SILVER

Art. no. Version

LIFT: power socket outlets

Enclosure colour silver; power input: 0.5m cable and GST18i3 plug904.008· 4 socket outlets with earthing contact, black, set at 35°



LIFT: 2xCAT6 + power outlet sockets

Enclosure colour black; power input: 3.0 m cable and plug; 3.0 m data cable and RJ45 plug904.009· 3 socket outlets with earthing contact, black, set at 35°

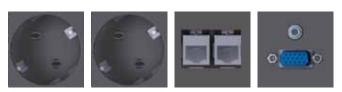


LIFT: 2xCAT6, 1xVGA + mini stereo jack + power outlet sockets

Enclosure colour black; power input: 3.0 m cable and plug;

CAT6 3.0 m data cable and RJ45 plug; VGA 15-pole and mini stereo jack with 3.0 m cable and plug;

904.010 · 2 socket outlets with earthing contact, black, set at 35°

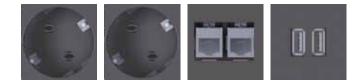


LIFT: 2xCAT6, 2x USB + power outlet sockets

Enclosure colour black; power input: 3.0 m cable and plug;

CAT6 3.0 m data cable and RJ45 plug; USB A socket with 3.0 m cable and plug;

904.011 · 2 socket outlets with earthing contact, black, set at 35°



Hole saw 140 mm in diameter For fitting LIFT 904.900 • Hole saw for clamping, with centre drill • 140 mm diameter



POWER FRAME is the compact solution for integrated and easily accessible power and data connections for workstations.

They can be either factory fitted or supplied for retrofitting.

Combining compact dimensions with high-quality timeless design, POWER FRAME opens up virtually unlimited application options that go far beyond the realm of office workstations. Such as in sales showrooms and display windows and at trade fair and demonstration stands. in short, wherever secure and rapid connections are the order of the day.

Your chosen power strip simply plugs into the built-in frame from below without tools – a stroke of perfection. POWER FRAME – for a more compact and more efficient solution.

The advan-	Compact dimensions
tages at a	Suitable for retrofitting
glance	Timeless design
	Versatile in application
	Quickly installs complete power strips



POWER FRAME is the solution for easy-to-access power and data connections at workstations and elsewhere. The power strip simply clicks into the built-in frame from below.



POWER FRAME Compact and efficient.

POWER FRAME – the practical unit for rapid installation.

Ease of integration

The POWER FRAME built-in frame with easy-tointegrate power strip is designed as a simple and easily accessible unit for supplying electricity to workstations. The built-in frame can be installed in desk or table tops with a minimum thickness of 10 mm. Two standard 3 mm woodscrews are used to fix the unit.

The built-in depth of the frame itself is approx. 34 mm. Including the power strip and cable sockets (power and data), the total required builtin depth is approx. 70 mm. The power and data sockets are located on the rear of the power strip profile.

Power strip simply clicks into place

The power strip clicks into the built-in frame (no tools are required). Since the power strip can be interchanged at any time, the user is guaranteed long-term flexibility and adaptability to future requirements.

Mounts with screws

This illustration shows how the frame is screwed into the table/desk top.







Built in frame

Built-in depth:	approx. 35.5 mm
For desk or table top thickness:	min. 10 mm
Outer dimensions:	241 x 73 mm
R5 corner radius:	facilitates flush mounting in or on the top of desks or tables.



Art. no. Version	
POWER FRAME	Silver-grey
317.000 · Silver-grey similar to RAL9006	
POWER FRAME	Stainless steel
317.001 · Stainless steel	
POWER FRAME	Black
915.000 · Black RAL9005	
POWER FRAME	White
915.001 · White RAL9016	

Aluminium power strips

Art. no.	Version custom modules + power socket outlet	Length: approx. 220 mm CU	STOM
	aluminium profile; power input: 0.1m cable and GST18i3 plug		
916.001	· 1 socket outlet with earthing contact, black, set at 35°		19
916.003	\cdot 1 French / UTE socket outlet, child-proof, black, set at 35°		
916.005*	· 1 Swiss / CH socket outlet, black, set at 0°	+	

3-way: 1x	custom module + power socket outlets	Length: approx. 220 mm CUSTOM	
Anodised a	aluminium profile; power input: 0.1m cable and GST18i3 plug		
916.000	· 2 socket outlets with earthing contact, black, set at 35°		
916.002	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°		
916.004*	· 3 Swiss / CH socket outlets, black, set at 0°	•	

3-way: 2x	CAT5e + power outlet sockets	Length: approx. 220 mm	
Anodised	aluminium profile; power input: 0.1m cable and GST18i3 plug		
317.101	 2 socket outlets with earthing contact, black, set at 35° 2 CAT5e RJ45, front: socket / rear: socket 		1050
3-way: Po	ower socket outlets	Length: approx. 220 mm	
	ower socket outlets aluminium profile; power input: 0.1m cable and GST18i3 plug	Length: approx. 220 mm	2.2
		Length: approx. 220 mm	59:3:3
Anodised	aluminium profile; power input: 0.1m cable and GST18i3 plug	Length: approx. 220 mm	1 19:9:9

3-way: 3x	custom modules	Length: approx. 220 mm CUSTOM
Anodised a	aluminium profile; without power connection	
916.010	without socket outlets	a start

Plastic power strips

Art. no. Version

3-way: 2x	custom modules + power socket outlet	Length: approx. 220 mm CUSTOM
Plastic pro	file; power input: 0.1m cable and GST18i3 plug	
916.061	· 1 socket outlet with earthing contact, black, set at 35°	6)
916.063	\cdot 1 French / UTE socket outlet, child-proof, black, set at 35°	
3-way: 1x	custom module + power socket outlets	Length: approx. 220 mm CUSTOM
Plastic pro	file; power input: 0.1m cable and GST18i3 plug	
916.060	· 2 socket outlets with earthing contact, black, set at 35°	
916.062	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°	
3-way: Po	wer socket outlets	Length: approx. 220 mm CUSTOM
Plastic pro	file; power input: 0.1m cable and GST18i3 plug	
317.117	\cdot 3 socket outlets with earthing contact, black, set at 35°	53
916.059	\cdot 3 French / UTE socket outlet, child-proof, black, set at 35°	

DESK is the ideal solution for data, media and power management wherever workstations need to be flexible. Typical situations might include meeting rooms, home offices or desk sharing environments.

The modular construction of DESK enables it to be factory configured with exactly the communications and power connections required for specific workstations and applications. Thus for power connections there is a free choice of either the flexible Wieland system or permanent connections. The data connections are fitted with adapters as standard, but can likewise also be fixed connections.

When it comes to positioning the DESK units, again versatility is the key. They are fixed to the desk/table top by mounting brackets or screws or can be free-standing, as best suits the application and good style.

The advan-	Flexibility of use regardless of location
tages at a	• With Wieland connector system or fixed cable con-
glance	nections
	Fixed or free-standing on desk/table
	 Custom versions adapt to future requirements



The modular construction of DESK enables it to be factory configured with exactly the communications and power connections you require. DESK can be fixed to a table or desk top or be free-standing.





DESK 1 – every possibility at your fingertips.



Plug connections as standard

The standard power connection features a Wieland plug-in connector in the rear panel and provides both reliable power feed and also flexibility in cable length. The cables can be swapped for longer or shorter power supply cables, for example. We use Wieland's GST18 connector, which is popular all over the world, as standard. This plug connection has a catch mechanism which complies with the relevant standards and can be released again if required. The contacts on the plug connection are safe to touch. A power output socket provides a means of forwarding power to the next module.

Mounting without damage

DESK 1 can be mounted on the edge of a desk or table quickly and easily using a mounting bracket. A size 4 Allen key is required in order to tighten the inside screw on the bracket. Mounting does not damage the tabletop/desktop. You will find a range of mounting brackets and units on page 39.

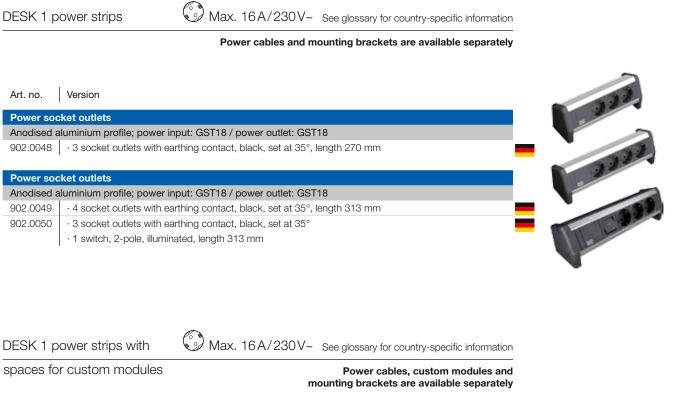
DESK 1 plus STEP in combination

Combining DESK 1 with a STEP power strip provides the ideal overall solution for an individual office workstation. DESK 1 provides easy access to power and data connections for various devices (laptop, mobile phone, USB etc.) whilst the STEP power strip under the desk/table top supplies power to fixed devices such as PC, monitor, printer etc. The STEP power strip is screwed in place underneath the top of the desk or table or placed in a duct underneath.

The integrated Wieland connector system allows multiple power strips to be connected in series in compliance with standards.



DESK 1 power strips



Version Art. no.

1x custon	n module + power socket outlets	СИЗТОМ
Anodised	aluminium profile; power input: GST18 / power outlet: GST18	222.1
902.000	· 3 socket outlets with earthing contact, black, set at 35°, length 322.5 mm	
902.017	· 3 socket outlet with earthing contact, black, set at 35°	520
	· 1 switch, 2-pole, illuminated, length 365 mm	
902.004	· 3 French / UTE socket outlets, child-proof, black, set at 35°, length 322.5 mm	
902.008	· 3 Swiss / CH socket outlet, black, set at 0°, length 258 mm	+
2 x custor	n modules + power socket outlets	СИЗТОМ
Anodised	aluminium profile; power input: GST18 / power outlet: GST18	
902.001	· 3 socket outlets with earthing contact, black, set at 35°, length 365 mm	
902.011	· 2 socket outlets with earthing contact, black, set at 35°, length 322.5 mm	222 11
902.018	· 3 socket outlets with earthing contact, black, set at 35°	
	· 1 switch, 2-pole, illuminated, length 407.5 mm	
902.005	· 3 French / UTE socket outlets, child-proof, black, set at 35°, length 365 mm	
902.009	· 3 Swiss / CH socket outlets, black, set at 0°, length 300.5 mm	+
902.039*	· 3 UK 3.15A individually fused, child-proof, set at 90°, length 309 mm	
3 x custor	n modules + power socket outlets	CUSTOM
Anodised	aluminium profile; power input: GST18 / power outlet: GST18	
902.002	· 3 socket outlets with earthing contact, black, set at 35°, length 407.5 mm	
902.019	· 3 socket outlets with earthing contact, black, set at 35°	
	· 1 switch, 2-pole, illuminated, length 450 mm	
902.006	· 3 French / UTE socket outlets, child-proof, black, set at 35°, length 407.5 mm	, , , , , , , , , , , , , , , , , , ,
902.010	· 3 Swiss / CH socket outlet, black, set at 0°, length 257.5 mm	+

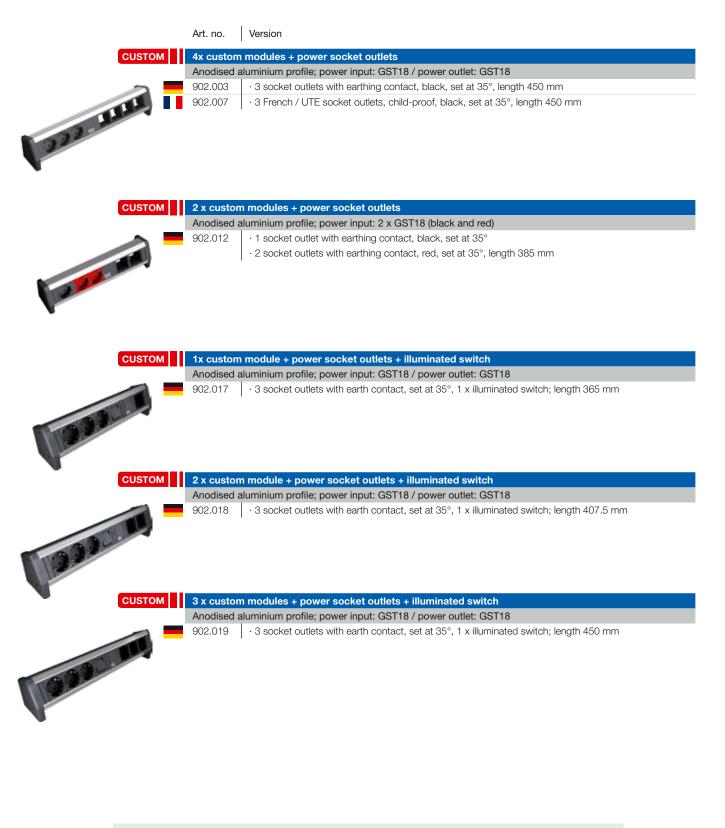
You can find suitable Wieland cables on page 123

DESK 1 power strips with

Max. 16A/230V~ See glossary for country-specific information

spaces for custom modules

Power cables, custom modules and mounting brackets are available separately



You can find suitable Wieland cables on page 123

🌒 Max. 16A/230V~

See glossary for country-specific information

Length: approx. 325 mm

Length: approx. 225 mm

Length: approx. 268 mm

Length: approx. 268 mm

- · Anodised aluminium profile, socket outlets black
- Incl. standard mounting bracket and screws

Art. no. Version

2x CAT5e 339.1004 · 3 socket outlets with earthing contact, set at 35° · 2x CAT5e RJ45, front: socket/rear: socket · Power input: GST18i3 plug, power output: GST18i3 socket
· 2x CAT5e RJ45, front: socket/rear: socket

DESK 1 3	k earthing contact, GST18
2x CAT5e,	
339.1005	\cdot 3 socket outlets with earthing contact, set at

- 3 socket outlets with earthing contact, set at 35°
 2x CAT5e RJ45, front: socket/rear: socket
 - · 1x VGA 15-pole + stereo 3.5 mm
 - Power input: GST18i3 plug, power output: GST18i3 socket
 - Incl. standard mounting bracket and screws

DESK 1 3	DESK 1 3x earthing contact, GST18 Length: approx. 325 m				
2x CAT5e, 1x USB					
339.1006	· 3 socket outlets with earthing contact, set at 35°				
	· 2x CAT5e RJ45, front: socket/rear: socket				
	· 1x USB A/A socket				
	· Power input: GST18i3 plug, power output: GST18i3 socket				

 \cdot Incl. standard mounting bracket and screws

DESK 1 3x earthing contact, GST18

 339.1002
 · 3 socket outlets with earthing contact, set at 35°

 · Power input: GST18i3 plug, power output: GST18i3 socket

 · Incl. standard mounting bracket and screws

DESK 1 4x earthing contact Fixed connection 339.1000 · 4 socket outlets with earthing contact, set at 35° · Power input: 3.0 m, H05VV-F 3G 1.50 mm² black, with right angle plug with earthing contact · Incl. standard mounting bracket and screws

DESK 1 3x earthing contact Fixed connection, 1x switch

- 339.1001 · 3 socket outlets with earthing contact, set at 35°
 - · 1x switch 2-pole green illuminated
 - · Power input: 3.0 m, H05VV-F 3G 1.50 mm² black,
 - with right angle plug with earthing contact
 - · Incl. standard mounting bracket and screws











DESK 1 automatic switchoff device



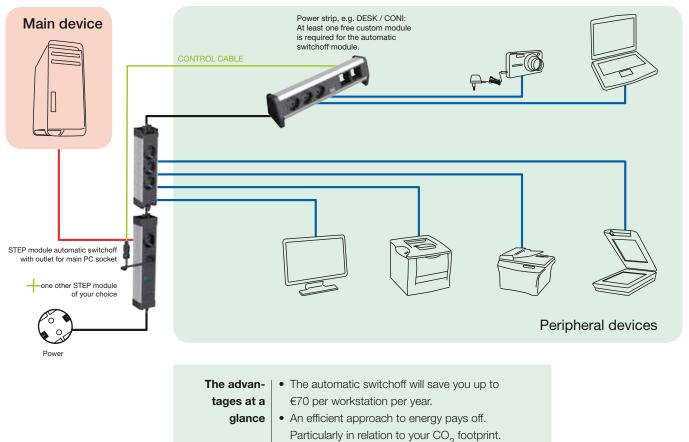
~70,-€ Saving per year with multiple peripherals, per workstation

Save energy in the office with Bachmann products



The Bachmann automatic switchoff unit allows efficient savings in power consumption by modern-day office equipment during non-working hours without a major outlay on wiring. Switching equipment off completely is no longer left to chance; power saving now begins as soon as the workstation PC is shut down.

The effectiveness of this system exceeds the savings possible with master-and-slave power strips, since no standby current is drawn by the master device and total power consumption during non-working hours is exactly zero. The automatic switchoff device thus saves energy.



• No electricity - no fire risk.

Automatic switchoff system components

	Art. no.	Version	
0	STEP ALU	Automatic switchoff device	Length: approx. 263 mm
	906.005	· Anodised aluminium profile	
		· 1 x automatic switchoff device with socket	
*		\cdot 1 x button connection with 0.5 m cable and connector for linking to mo	odule 917.060
		· Power input: GST18i3 plug, power output: GST18i3 socket	
	Module 1x	button automatic switchoff/Automatic Saves Energy	
And	917.060	\cdot 1 x button, black, with 1.0 m cable and 2-way connector	
		Pressing the button subsequently restores power to the connected equ	uipment.
		· Use in any power strip with custom modules	

DESK 1 accessories

Art. no.	Version		
DESK 1 s 918.001	Iimline mounting bracket • Stainless steel, thickness 3 mm • Contents: 2 stainless steel mounting brackets + 2 N	for desk/table top thicknesses up to 50 mm //5 x 45 mm Allen keys	IJ
DESK 1 s 930.120	 tandard mounting bracket Anodised aluminium, thickness approx. 9 mm Contents: 2x mounting clamps, anodised aluminium profile 2x M5 x 60 mm Allen bolts 	for desk/table top thicknesses up to 50 mm	
DESK 1 Id 930.180	 Mounting bracket Mounting bracket, long, 50-80 mm Contents: 2x mounting clamp, black painted RAL9011 2x M5 x 45 mm Allen bolts 2x M5 x 60 mm Allen bolts 	for desk/table top thicknesses up to 80 mm	
Chipboar 930.183	d screws for DESK end caps • 2x chipboard screws 4 x 90 mm incl. brass threade	for desk/table top thicknesses from 15 mm Ind sleeve	
DESK 1 n 930.182	 Black plastic Black plastic Mounting plates for attachment to DESK end caps Contents: 2x mounting plates 2x screws 2x TESA POWER STRIP 		TITLE .

DESK 2 is a power strip that can be populated with various communication modules. It has been designed for flexible use in the office, meeting rooms, home offices or desk sharing environments.

The power strip is made from aluminium and is available in various colours. The connections are screwed onto the standardised module windows and can be easily changed over.

DESK 2 is secured to the desktop with aluminium retaining brackets, cables are routed behind the screen.

DESK 2 won the red dot design award 2011, the IF Product Design Award 2012 and is nominated for the German Design Award 2012. The design is unostentatious and straightforward, the materials used are of high quality and durable.

The advan-	Design solution for modern workstations
tages at a	User-focused 45° orientation
glance	Covered wiring to the the edge of a desk or table
	Custom versions adapt to future requirements
	Red Dot Design Award winner 2011
	IF Award winner 2012
	Nominated for the German Design Award 2012



Particular attention has been paid to the design of the DESK 2. In terms of technology, DESK 2 has a modular structure, just like its predecessor DESK 1. Like all other Bachmann desk connection panels with media and data modules, DESK 2 is adapted to individual requirements and future purposes using Bachmann custom modules.



DESK 2 Design meets technology.

DESK 2 power strips

197 mm

DESK 2 power strips, empty

	Art. no.	Version	
	1x custon	n module + power socket outlets	Length: approx. 239 mm
	Aluminium	profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting	bracket
	902.200	\cdot 3 socket outlets with earthing contact, child-proof, black, set at 35°	
		· Painted in RAL 9010 white	
	902.204	\cdot 3 French / UTE socket outlet, child-proof, black, set at 45°	
		· Painted in RAL 9010 white	
	902.206	· 2 UK 3.15A individually fused, child-proof, black, set at 45°	
		· Painted in RAL 9010 white	
¥ •	902.208	· 3 Swiss / CH T13 socket outlets, black, set at 90°	
-		· Painted in RAL 9010 white	
	902.400	\cdot 3 socket outlets with earthing contact, child-proof, black, set at 35°	
1333-141		· Painted in stainless steel	
	902.404	\cdot 3 French / UTE socket outlet, child-proof, black, set at 45°	
		· Painted in stainless steel	
	902.406	\cdot 2 UK 3.15A individually fused, child-proof, black, set at 45°	
		· Painted in stainless steel	
+	902.408	· 3 Swiss / CH T13 socket outlets, black, set at 90°	
		· Painted in stainless steel	



1x custom	Length: approx. 204 mm			
Aluminium profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting bracket				
902.203	\cdot 2 socket outlets with earthing contact, child-proof, black, set at 35°			
	Painted in RAL 9010 white			
902.403	$\cdot2$ socket outlets with earthing contact, child-proof, black, set at 35°			
	Painted in stainless steel			



2 x custom modules + power socket outlets Length: approx. 239				
Aluminium	Aluminium profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting bracket			
902.211	\cdot 2 socket outlets with earthing contact, child-proof, black, set at 35°			
	· Painted in RAL 9010 white			
902.411	$\cdot2$ socket outlets with earthing contact, child-proof, black, set at 35°			
	· Painted in stainless steel			



2 x custom	n modules + power socket outlets	Length: approx. 274 mm		
Aluminium profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting bracket				
902.207	\cdot 2 UK 3.15A individually fused, child-proof, black, set at 45°			
	Painted in RAL 9010 white			
902.407	\cdot 2 UK 3.15A individually fused, child-proof, black, set at 45°			
	· Painted in stainless steel			

DESK 2 power strips, empty

Art. no. Version

2 x custor	n modules + power socket outlets	Length: approx. 282 mm		
Aluminium	profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting br	racket		1000
902.201	 · 3 socket outlets with earthing contact, child-proof, black, set at 35° · Painted in RAL 9010 white 			1
902.205	 · 3 French / UTE socket outlet, child-proof, black, set at 45° · Painted in RAL 9010 white 			
902.209	 · 3 Swiss / CH T13 socket outlets, black, set at 90° · Painted in RAL 9010 white 		+	
902.401	 · 3 socket outlets with earthing contact, child-proof, black, set at 35° · Painted in stainless steel 			
902.405	 · 3 French / UTE socket outlet, child-proof, black, set at 45° · Painted in stainless steel 			
902.409	 · 3 Swiss / CH T13 socket outlets, black, set at 90° · Painted in stainless steel 		+	

3 x custon	n modules + power socket outlets	Length: approx. 324 mm	
Aluminium profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting bracket			
902.202	 · 3 socket outlets with earthing contact, child-proof, black, set at 35° · Painted in RAL 9010 white 		
902.402	 · 3 socket outlets with earthing contact, child-proof, black, set at 35° · Painted in stainless steel 		

DESK 2 power strips, equipped

Art. no. Version

1x custom	n module + power socket outlets	Length: approx. 239 mm
Aluminium	profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting I	bracket
902.301	\cdot 3 socket outlets with earthing contact, child-proof, black, set at 35°	
	· Painted in RAL 9010 white	
	· 1 CAT6 coupling socket/socket	
	· 1 USB A/A 3.0 keystone module	
	· 1.5m separate device supply cable, GST18/earth contact	
02.501	\cdot 3 socket outlets with earthing contact, child-proof, black, set at 35°	
	· Painted in stainless steel	
	· 1 CAT6 coupling socket/socket	
	· 1 USB A/A 3.0 keystone module	
	· 1.5m separate device supply cable, GST18/earth contact	

2 x custon	n modules + power socket outlets Length: approx. 282 mm		
Aluminium	Aluminium profile; power input: 0.2m H05VV-F3G 1.5 mm ² with GST18; incl. mounting bracket		
902.302	\cdot 3 socket outlets with earthing contact, child-proof, black, set at 35°		
	· Painted in RAL 9010 white		
	· 2 CAT6 coupling socket/socket		
	· 1 USB A/A 3.0 keystone module		
	1 HDMI keystone socket/socket		
	 1.5m separate device supply cable, GST18/earth contact 		
902.502	\cdot 3 socket outlets with earthing contact, child-proof, black, set at 35°		
	· Painted in stainless steel		
	· 2 CAT6 coupling socket/socket		
	· 1 USB A/A 3.0 keystone module		
	· 1 HDMI keystone socket/socket		
	· 1.5m separate device supply cable, GST18/earth contact		





33-

STEP embodies the principle of modularity with absolute consistency. The system is thus ideal for the flexible delivery of power and data to workstations, partition systems, false floors and other connection types.

The modular design of STEP power strips makes for virtually endless possibilities: from simple power supply sets through to power strips with integrated data connections, RCDs/MCBs, overvoltage protection, media technology links and much more.

For electricity distribution STEP uses the Wieland connector system as standard and can therefore be supplied with a variety of cable lengths. Other plug connection systems can also be supplied on request.

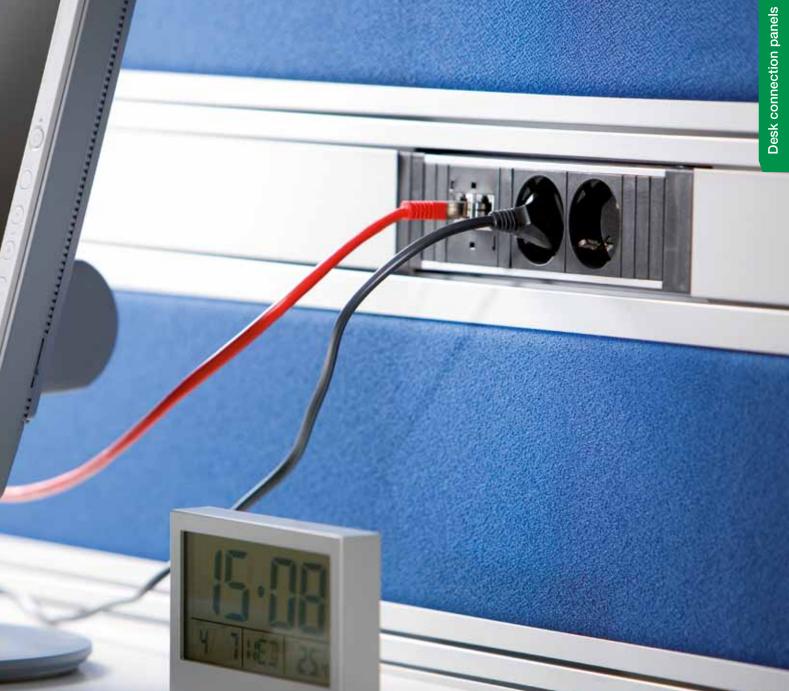
STEP delivers individual tailor-made solutions meeting all the requirements of modern power and data supply. In short: Fit for the future – step by step.

The advan-	Consistent modularity
tages at a	Versatile applications
glance	 Standard connection system
	Can be removed at any time

Functional efficiency



STEP is ideal for the flexible delivery of power and data to workstations, partition systems, false floors and other connection types.



STEP Fit for the future – step by step.

STEP – the all-round system designed for expansion.







Perfectly tailored for the best connections

The STEP power strip is available with an aluminium or plastic profile. It is possible to connect multiple power strips together to form a modular system. STEP is designed primarily as a simple electricity supply unit for office work-stations. Permanently positioned devices such as PCs, monitors, printers, etc. can be connected to STEP.

STEP power strips have a power input and a power output, each of which is built into the end caps. The Wieland GST18 plug connectors fitted are particularly tried-and-tested solutions for office use and have the coding and latch mechanism required to comply with the applicable standard.



Multiple fixing options

STEP power strips are versatile in their application. They can be fitted for example under table/desk tops, in cable ducts and in partitions. Different fixing options are available to suit these various applications (see from page 53).



STEP combination options

You can plug separate modules together or combine them as you wish with a connecting cable. Thus STEP gives you your own custom power distribution system. Other plug-in connection systems (e.g. Wago Winsta, Woertz,

Ensto) can be supplied on request.

See glossary for country-specific information

Power cables and custom modules are available separately

-	E: power socket outlet
Art. no.	Version

STEP BAS	E: power socket outlets	Length: approx. 220 mm
Plastic prot	file; power input: GST18 / power outlet: GST18	
336.600	\cdot 3 socket outlets with earthing contact, black, set at 35°	
336.601	\cdot 3 socket outlets with earthing contact, red, set at 35°	
336.603	\cdot 3 French / UTE socket outlet, child-proof, black, set at 35°	

STEP BAS	E: power socket outlets	Length: approx. 262.5 mm
Plastic pro	file; power input: GST18 / power outlet: GST18	
336.604	\cdot 4 socket outlets with earthing contact, black, set at 35°	
336.606	\cdot 4 French / UTE socket outlet, child-proof, black, set at 35°	

STEP ALU	STEP ALU: power socket outlets Length: approx. 220 mm (note special lengths)		
Aluminium	profile; power input: GST18 / power outlet: GST18		
336.039	\cdot 3 socket outlets with earthing contact, black, set at 35°		
336.067	\cdot 3 socket outlets with earthing contact, red, set at 35°		
336.046	\cdot 4 French / UTE socket outlets, child-proof, black, set at 35°, length 262.5 mm		
336.072	\cdot 3 French / UTE socket outlets, child-proof, red IT, set at 35°		
336.088	\cdot 4 French / UTE socket outlets, child-proof, black, set at 35°, length 262.5 mm		
906.1086*	· 3 Swiss / CH socket outlets, black, set at 90°	+	
906.1059*	\cdot 3 UK 3.15A individually fused, child-proof, set at 45°, length 314.5 mm		
336.076	· 3 USA socket outlets, black, set at 0°, length 195 mm		



100

STEP ALU	: 1x custom module + power socket outlets	Length: approx. 220 mm	СИЗТОМ
Aluminium	profile; power input: GST18 / power outlet: GST18		
906.000	\cdot 2 socket outlets with earthing contact, black, set at 35°		
906.002	\cdot 2 French / UTE socket outlets, child-proof, black, set at 35°		2.3
906.071	· 2 Swiss / CH socket outlets, black, set at 90°		+
336.079	· 2 UK 3.15A individually fused, child-proof, set at 45° (length 284.5 mm)		

STEP ALL	I: 2 x custom modules + power socket outlets	Length: approx. 262.5 mm	CUSTOM
Aluminium	profile; power input: GST18 / power outlet: GST18		
906.001	\cdot 2 socket outlets with earthing contact, black, set at 35°		2
906.009*	· 2 French / UTE socket outlets, child-proof, black, set at 35°		
906.080*	· 2 Swiss / CH socket outlets, black, set at 90°		🖪 💎

STEP ALU: 1x switch + power socket outlets Length: approx. 262.5 mm		
Aluminium	profile: power input: GST18 / power outlet: GST18	
906.003	 · 3 x socket outlets with earthing contact, black, set at 35° · Switch controls sockets only (not power outlet) 	
906.031	 3 x socket outlets with earthing contact, black, set at 35° Switch controls both sockets and power outlet 	



Version

STEP ALU overvoltage protection unit, GST18

Art. no.

C.

All STEP safety modules are compatible with STEP ALU and STEP BASE

See glossary for country-specific information. Power cables and custom modules are available separately.

Length: approx. 147 mm

	Aluminium	n profile; power input: GST18 / power outlet: GST18	
	336.003	· Overvoltage protection unit, 2 kV, with function and fail indicator	
-	STEP ALL	J overvoltage protection + mains and frequency filters, GST18	Length: approx. 220 mm
	Aluminium	profile; power input: GST18 / power outlet: GST18	
	336.004	Overvoltage protection 2 kV with function and fail indicator and 30 MHz	r mains filter
	STEP ALU	J MCB, GST18	Length: approx. 220 mm
		n profile; power input: GST18 / power outlet: GST18	
12	336.015	Miniature circuit-breaker 16A, 2-pole	
		· Characteristic B	
and the	STEP ALL	J RCD, GST18	Length: approx. 220 mm
115	Aluminium	profile; power input: GST18 / power outlet: GST18	
	336.014	• 16A residual current device, tripping current 30mA, response time 30m	ms, 2-pole
	STEP ALL	J RCD, GST18	Length: approx. 220 mm
		profile; power input: GST18 / power outlet: GST18	
	906.067	· Residual current device, 16A, tripping current 10mA, response time 30	ms, 2-pole
		• Power input: GST18i3 plug, power output: GST18i3 socket;	
and the second s	STEP ALL	J RCD/MCB, GST18	Length: approx. 220 mm
125	Aluminium	n profile; power input: GST18 / power outlet: GST18	
	336.065	RCD/MCB combination comprising:	
8		- Residual current device 16A, tripping current 30mA, response time 3	30ms, 2-pole
		- Miniature circuit-breaker 16A rated current, 400V, 2-pole	
		· Characteristic B; 6kA	
T.		J Master & Slave, GST18	Length: approx. 220 mm
•		n profile; power input: GST18 / power outlet: GST18	
23	336.006	Master & Slave circuit with threshold value setting from 10W	
		Effective power: 0.29W / apparent power: 1.05W	



STEP ALU automatic switchoff device		Length: approx. 263 mm
Aluminium	profile; power input: GST18 / power outlet: GST18	See page 51
906.005	· 1 x automatic switchoff device with socket	
	 1x button connection with 0.5 m cable and plug-in connector 	
	to link to module 917.060	

STEP accessories

Art. no.	Version	
		-2
Fitting ac		111
375.502	· Contents:	
	 - 4 screws 2.9 x 30 mm - 2 end cap cover strips to provide a visual finish 	
	(fitted on the end caps where two strips are linked together).	
	- 1 joint cover	
	- 1 end cap for power outlet socket	
Stainless	steel mounting bracket	1.1
940.096	· For insertion into the rear of a STEP profile	a costo
	Ideal for use with power strips with data connections	
	· 2 items	
		- 17
	steel mounting bracket with elongated hole	
940.024	For insertion into the rear of a STEP profile	A DECK
	· With elongated hole (keyhole) for screwing into place, ideal when using	A la m
	power strips with data connections	
	· 1 item left, 1 item right	N 12 - 57
Stainless	steel mounting plate, flat	p
940.097	· For insertion into the rear of a STEP profile	100
	· For screw fixing e.g. under a desk or table	A LOUGH
	· 2 items, packaged in plastic bag	
STEP cov	er plates	
375.529	· Fit over the end caps of STEP power strips	
	Visual finish	
	· Black plastic	· · · ·
	· 2 items, packaged in plastic bag	
Sheet ste	el mounting plate	
940.108	· For insertion into rear of STEP profile	

940.108	For insertion into rear of STEP profile	
	\cdot Tightening the nut on the threaded screw fixes the power strip in place.	
	· Contents:	0-
	- 1 mounting plate incl. M5 screw, washer and nut	

918.025	· For mounting STEP BASE and STEP ALU power strips in suitable cut-outs in sheet steel
	(thickness 2.0 mm)

 \cdot Contents: 2 plastic mounting clips, 4 screws 2.9 x 30 mm

 \cdot Drawings for the required cut-outs can be requested if required.



Earthed power supply cable to STEP unit, see Accessories section

- Pre-assembled power supply cables with integrated earth connection
- Earthing of the power strip is independent of the installation
- Ideal in combination with STEP power strips (see from page 49)



Bachmann custom modules are the central components of video, audio and network connections. Their construction offers you simple and flexible installation in facility systems, rack systems and electrical installations. The versatility of custom modules make Bachmann facility systems even more flexible. With the easy-to-swap modules you can create units to meet the individual data, video and audio connection requirements of your customers quickly and simply.

Now Bachmann is also offering this flexibility for 10", and 19" panel installations. The standard custom modules facilitate optimal configuration for every media and network connection requirement. Here also, socket/socket or screw-terminal connections provide great simplicity of installation.

When it comes to electrical installations, Bachmann custom modules are again an outstanding addition. The small number of parts make the custom modules compatible with the current switch ranges of reputable manufacturers. Simple fitting and removal mean that all installations can be quickly adapted to changed requirements or brought up to the current state of the art.

The advan-	Flexibly interchangeable modules
tages at a	 For data, video and audio connections
glance	• Can be used in facility systems, rack systems and
	electrical installations
	Integration with the switch ranges of leading
	manufacturers
	Easy to connect via socket/socket or screw
	terminals





Power strips

19" and 10" media racks

Electrical installations



CUSTOM MODULES

As versatile as your applications.



The empty Bachmann facility systems built-in frame^① accommodates the custom modules^②, which are fixed in place with two Torx screws^③. The custom modules can be easily exchanged by loosening the screws.

Custom modules in facility systems





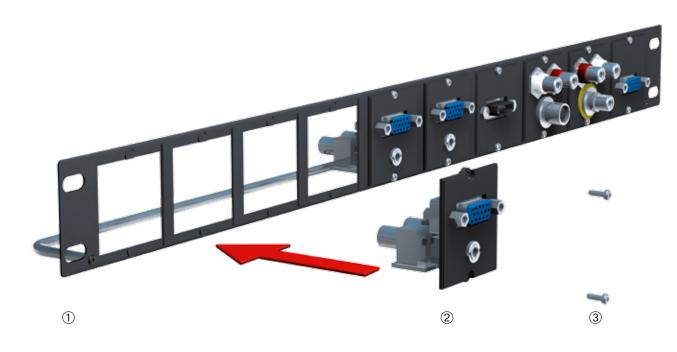
Individual configuration

Modern technology and strong ideas are at the heart of each and every Bachmann facility system. With expansion-compatible multiple-socket outlets and facility custom modules for individual configuration, these systems provide the ideal basis for setting up flexible connections. Practical units provide secure networking in the office, while elegantly designed, concealed supply systems offer trouble-free communications for conferences. In addition to standard units factory-configured with sockets, Bachmann facility products also include empty modules that you can configure yourself. Custom modules are supplied complete with screws.

The greatest flexibility - prepared for the future

Whenever you change the configuration you have the opportunity to upgrade your equipment to the latest state of the art. Built-in insulation protects you from contact with live parts when exchanging modules. There is no requirement to recheck the electrical connections of the unit after changing modules, and the warranty is not affected. You can find facility system products in the main Bachmann catalogue and in the separate Facility Systems catalogue.

Compatible with Bachmann facility systems

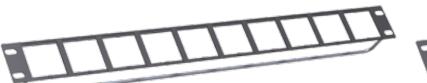


For 19" and 10" racks^① the custom modules^② are simply inserted and screwed in. System integration is made easy with the open design and socket/socket or screw-terminal custom modules.

Custom modules in rack installations

Full integration of media and network technologies

The 19" and 10" panels offer simple and flexible integration of media and network technologies into your rack system. The custom modules easily screwed into place (Torx M2 screws⁽³⁾ included with the panels) enable you to respond to changes in system requirements at any time. Socket/socket and screw-terminal technology offers a compact and clearly arranged installation. The panels are particularly economical on space, requiring only one height unit (44.5 mm).

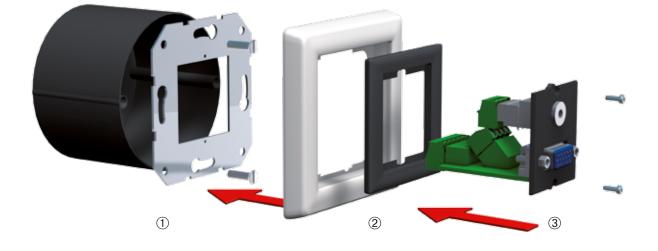


903.000 Bachmann 19" panel, 1 U, with strain-relief bar, accepts 10 custom modules (Screws for fitting are supplied together with custom modules)

Compatible with Bachmann IT rack panel



903.001 Bachmann 10" panel, 1 U, with strain-relief bar, accepts 5 custom modules (Screws for fitting are supplied together with custom modules)



Using a mounting plate^① and adapter frame^② (see page 8) custom modules³ can be installed in a switch box.

Custom modules in electrical installations

Unlimited installation options

The addition of a few extra components opens up whole new possibilities for electrical installations. Installed in either a switch box or sill-type trunking, the extensive range of custom modules allows the easy integration of audio, video and data networks. By using the standard 50 x 50 mm and 55 x 55 mm adapter frames, the custom modules form an optimal complement to the current switch ranges of reputable manufacturers. The connections to the rear can be made either as socket/socket or via screw terminals. No complicated soldering or cabling is required. A compatibility list of custom modules to the switch ranges of various manufacturers can be found on page 60 onwards.

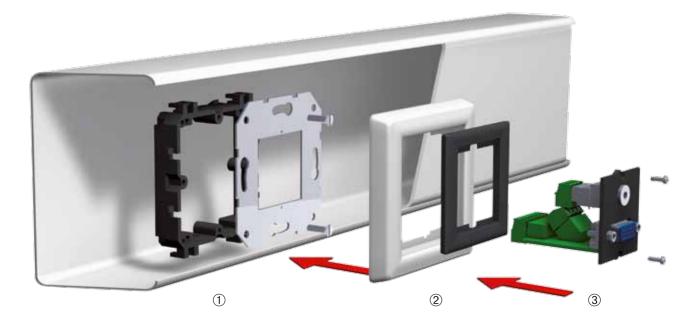




dapter frames, 50x50 mm and 55x55 mm



Mounting box for trunking (example) You can obtain various mounting boxes or device boxes from the appropriate trunking manufacturers.



The mounting box is inserted into the trunking. The mounting plate^① and adapter frame[@] (50x50 mm or 55x55 mm) and the Bachmann custom module^③ are bolted onto this base.

Bachmann custom modules[®] can even be fitted into conventional floor boxes. The custom module bracket[®] for floor-box systems allows the module to be fitted directly. There is thus no need for a mounting plate[®] or adapter frame[®]. The Bachmann custom module holder[®] is suitable for various makes of floor box. Please check the installation depth required by the custom modules.



Compatible with Bachmann electrical installations



4

Manufac- turer *	Switch range*	Bachmann Adapter frame** Colour black	Bachmann Adapter frame** Colour white	+ Adapter manufacturer number
Berker	S.1	917.066	917.169	-
	B.1	917.066	917.169	-
	B.3	917.066	917.169	-
	B.7 Glass	917.066	917.169	-
	K.1	917.065	917.168	11087124 11087106 11087109 11087102
	K.5	917.065	917.168	11087104
	Arsys	917.065	917.168	11080101 11089104 11089111 11080169 11080102
	Module 2	917.065	917.168	114309 114302
Busch-Jaeger	carat	917.065	917.168	1746/10-81 1746/10-82 1746/10-84
	pure stainless steel	917.065	917.168	1746/10-866
	pulse	917.065	917.168	1746/10-71 1746/10-72 1746/10-74 1746/10-79 1746/10-777 1746/10-783
	solo	917.065	917.168	1746/10-82 1746/10-84 1746/10-85 1746/10-86 1746/10-87 1746/10-88 1746/10-803 1746/10-815
	Busch-axcent	917.065	917.168	1746/10-84
	future	917.065	917.168	1746/10-82 1746/10-84 1746/10-85 1746/10-89
	Future linear	917.065	917.168	1746/10-81 1746/10-82 1746/10-83 1746/10-84 1746/10-89
EGB	Elegant Standard	917.065	917.168	143090045
ELSO	JOY	917.065	917.168	363080 363084
	RIVA	917.065	917.168	203080 203084 2030831 2030811 2030819
	RIVA	917.066	917.169	203160 203164 2031611 2031619
	SCALA	917.065	917.168	203080 203084 2030811 2030819
	SCALA	917.066	917.169	203160 203164 2031611 2031619
	FASHION	917.065	917.168	203080 203084 203081 2030812 203082 2030831 203086 203089 2030844
	FASHION	917.066	917.169	203160 203164 203160D
	NOVIA	917.066	917.169	284800 284804
	NOVIA	917.065	917.168	283160 283164 2831631 2831612 283166 283169 2831611
	CLASSIC	917.065	917.168	303110 303111
Gira	Standard 55	917.066	917.169	-
	E2	917.066	917.169	-
	Event	917.066	917.169	-
	Esprit	917.066	917.169	-
	E22	917.066	917.169	0289202
	Stainless steel series 20/21	917.066	917.169	028920
	TX_44	917.066	917.169	028966 028967 028965
	Surface switch	917.066	917.169	0289111 0289112
	S-Color	917.065	917.168	028240 028242 028243 028246 028247
Jäger	Opus	917.065	917.168	560.050.02
Jung	AS 500	917.066	917.169	-
	AS Universal	917.066	917.169	-
	A 500	917.066	917.169	-
	Aplus	917.066	917.169	-
	A creation	917.066	917.169	-
	LS-design	917.066	917.169	AL2961Z5-L ES2961Z5-L
	LS 990	917.066	917.169	LS961Z5WW LS961Z5SW LS961Z5AL
	LS plus	917.066	917.169	AL2961Z5-L ES2961Z5-L

 $^{\star\star}\mbox{Also}$ order the respective Bachmann adapter frame for fitting in the switch range.

Manufac- turer *	Switch range*	Bachmann Adapter frame** Colour black	Bachmann Adapter frame** Colour white	+ Adapter manufacturer number
Jung	FD-design	917.066	917.169	AL2961Z5-L ES2961Z5-L
	CD 500	917.065	917.168	590ZCD 590ZWW
	LS 990	917.065	917.168	LS961Z LS961ZWW LS961ZLG LS961ZSW
	LS 990	917.065	917.168	LS961Z5 LS961Z5WW LS961Z5SW
	Aluminium	917.065	917.168	LS961Z LS961ZWW LS961ZLG LS961ZSW
	Aluminium	917.066	917.169	LS961Z5 LS961Z5WW LS961Z5SW AL2961Z5-L ES2961Z5-L
	Stainless steel	917.065	917.168	LS961Z LS961ZWW LS961ZLG LS961ZSW
	Stainless steel	917.066	917.169	LS961Z5 LS961Z5WW LS961Z5SW AL2961Z5-L ES2961Z5-L
	Anthracite	917.065	917.168	LS961Z LS961ZWW LS961ZLG LS961ZW
	Anthracite	917.066	917.169	LS961Z5 LS961Z5WW LS961Z5SW AL2961Z5-L ES2961Z5-L
	Bright chrome	917.065	917.168	LS961Z LS961ZWW LS961ZLG LS961ZSW
	Bright chrome	917.066	917.169	LS961Z5 LS961Z5WW LS961Z5SW AL2961Z5-L ES2961Z5-L
Merten	1-M	917.066	917.169	-
	ATELIER-M	917.066	917.169	-
	M-SMART	917.066	917.169	-
	M-PLAN	917.066	917.169	-
	M-PLAN GLASS	917.066	917.169	-
	M-PLAN Metal	917.066	917.169	-
	M-PLAN II	917.066	917.169	-
	M-ARC	917.066	917.169	-
	M-STAR	917.066	917.169	-
	ARTEC	917.065	917.168	516094 516099
	AQUADESIGN	917.065	917.168	518344 518319 518314 518360
PEHA	Standard	917.066	917.169	219511 219611
	Standard	917.065	917.168	219411 219211 219711 219311 218711
	Dialog	917.065	917.168	828611 819511 768611 847311 838011 778611 316611
	Aura	917.065	917.168	117211 129511 155811
	Nova	917.065	917.168	027211 042211 057211
DODD	Nova	917.066	917.169	100511 100711 100611
POPP	FOREVER	917.065	917.168	729828 729811
	ARCADA	917.065	917.168 917.168	729842 729866 729859
Brosto Voddor		917.065		
Presto-Vedder	Regina classic Alessa	917.065 917.065	917.168 917.168	730RW 730RUW 230RUW
				230RUW
	Alessa plus Fiorena	917.065 917.065	917.168 917.168	3030RUW 3030RW 3030RSI 3030RSGR
Siemens	DELTA line	917.065	917.168	5TG2557 5TG2587 5TG1160 5TG1150
cicilicità	DELTA vita	917.065	917.168	5TG2557 5TG1160 5TG1150
	DELTA miro	917.065	917.168	5TG2557 5TG2587 5TG1160 5TG1150
	DELTA style	917.065	917.168	5TG1326 5TG1326-1 5TG1366
	DELTA style	917.066	917.169	5TG1327 5TG1327-1 5TG1367
	DELTA profile	917.065	917.168	5TG1806 5TG1866 5TG1766 5TG1836 5TG1706-1 5TG1746-1
	DELTA profile	917.066	917.169	5TG1893 5TG1885 5TG1762 5TG1835 5TG1705-1 5TG1745-1

Custom modules

*Name and product designation of manufacturer **Also order the respective Bachmann adapter frame for fitting in the switch range.

Switch range



Art. no.	Version	
Custom m	odule mounting plate for switch range	Stainless steel
917.064	 Stainless steel mounting plate suitable for conventional devices, for flush mounted, cavity and device boxes for trunking Incl. 2 Torx M2 screws For trunking an additional mounting box is required (see manufacturer's range) 	



Adapter fr	Plastic	
917.065	· 50 x 50 mm	
	·Black	
	· For fitting in standard switch range (50 x 50 mm internal dimensions)	
	together with stainless steel mounting plate 917.064	
	Please note the compatibility list on page 58 onwards	



Adapter fr	rame for switch range	Plastic
917.168	· 50 x 50 mm	
	· White RAL 9010	
	· For fitting in standard switch range (50 x 50 mm internal dimensions)	
	together with stainless steel mounting plate 917.064	
	Please note the compatibility list on page 58 onwards	



Adapter frame for switch range			
917.066	· 55 x 55 mm		
	· Black		
	· For fitting in standard switch range (55 x 55 mm internal dimensions)		
	together with stainless steel mounting plate 917.064		
	Please note the compatibility list on page 58 onwards		



Adapter fr	ame for switch range	Plastic
917.169	· 55 x 55 mm	
	· White RAL 9010	
	· For fitting in standard switch range (55 x 55 mm internal dimensions)	
	together with stainless steel mounting plate 917.064	

Please note the compatibility list on page 58 onwards

Floor boxes

Art. no. Version

Floor box mounting 2x Sheet st		Sheet steel
2x custom	module	
917.068	· For fitting in OBO Bettermann device case/floor-box systems	
	• To accept 2 custom modules (transverse mounting)	
	Incl. Torx M2 screws	

Floor box	mounting 3x	Sheet steel
3x custom	modules	
917.067	· For fitting in OBO Bettermann device case/floor-box systems	
	· Accepts 3 custom modules (transverse mounting)	
	Incl. Torx M2 screws	

Floor box	mounting 2x	Black plastic
2x custom	module	
917.139	Mounting for Electraplan floor boxes	
	Accepts 2 custom modules (transverse mounting)	
	 Incl. Torx M2 screws for custom modules 	

Floor box r	mounting 3x	Black plastic
3x custom	modules	
917.140	 Mounting for Electraplan floor boxes Accepts 3 custom modules (transverse mounting) Incl. Torx M2 screws for custom modules 	

Media racks/IT panels

Art. no.	Version n module panel 1 UBlack anodised aluminium	
903.001	 Accepts up to 5 custom modules Incl. fixing accessories and Torx M2 screws 	
19" custor	n module panel 1 UBlack anodised aluminium	
903.000	Accepts up to 10 custom modules	

· Accepts up to 10 custom modules \cdot Incl. fixing accessories and Torx M2 screws

ППП



Modules for data connections

· All modules are supplied with 2 Torx T6 screws.

	Art. no. Version
•	Module 2 x Keystone
	917.000 · Module, black, accepts 2 data sockets with Keystone fixing
	Suitable for the data sockets listed below
	917.158 · Module, white, accepts 2 data sockets with Keystone fixing
•	Suitable for the data sockets listed below
•	Module 1 x Keystone
	917.001 · Module, black, accepts 1 data socket with Keystone fixing
	• Suitable for the data sockets listed below
	917.159 · Module, white, accepts 1 data socket with Keystone fixing
0	Suitable for the data sockets listed below
	2x Keystone module with metal holder 917.061 • Module, black, accepts 2 data sockets with Keystone fixing • Keystone fitting with metal holder on rear of cover for heavy-duty use • Suitable for the data sockets listed below
÷	1x Keystone module with metal holder 917.062 • Module, black, accepts 1 data socket with Keystone fixing • Keystone fitting with metal holder on rear of cover for heavy-duty use
÷	Suitable for the data sockets listed below

BTR**	DAETWYLER**	KERPEN**
 E-DAT module CAT6a 8(8) E-DAT module coupling 8(8) CAT6 	 unilan MS 1/8 CAT6 RJ45 unilan RJ45 feedthrough coupling CAT6 unilan MU 1/8 CAT6 RJ45 	 VarioKeystone RJ45 socket module



Module 2x	RTR E-DAT	module CAT6
modulo LA		



dule 2x	BTR E-	DAT mod	lule CAT6

917.038

\cdot Module with cut-out and mounting module for 2 x BTR E-DAT module CAT6 (not included)

Also suitable for Daetwyler Unilan module MS 1-8



Module 1x BTR E-DAT module CAT6 917.006 · Module with cut-out and mounting module for 1 x BTR E-DAT module CAT6 (not included) Also suitable for Daetwyler Unilan module MS 1-8



Module 1x Systimax CAT6 917.003

· Module with cut-out and mounting plate for 1x Systimax CAT6 MGS500 and MGS400 series (not included)

Modules for data connections

 $[\]cdot$ All modules are supplied with 2 Torx T6 screws.

Art. no.	Version	
/lodule 1	RDM CAT6	2
917.005	Module with cut-out and mounting plate for	
	1x Reichle de Masari (RDM) CAT6 (not included)	
Nodule 1	x BKS	
917.153	Module with cut-out for BKS (RJ, RJ250, RJUTP, RJpro and MMC3000pro) data connections in	
	 conjunction with mounting clip 403-7540xx (not included). Also suitable for Kerpen ELine 1200 C7 socket in conjunction with ELine EC7 adapter clip 	
	LKD9ZE300210000 (not included).	
/lodule N	exans 2x	
17.052	Module, black, with cut-out for 2 x Nexans LANmark-6 CAT6	
	(can be clipped in with Keystone Nexans clip)	
	Data socket and Keystone clip available separately	
Nexans m	odule 1x	2
17.051	Module, black, with cut-out for 1 x Nexans LANmark-6 CAT6	
	(can be clipped in with Keystone Nexans clip)	
	· Data socket and Keystone clip available separately	
Module 1	c Panduit CAT6	-
917.007	· Module with cut-out and mounting plate (black) for 1 x Panduit CAT6 (not included)	
Module 1	x Corning CAT6	2
917.002	Module with cut-out and mounting plate (black) for 1 x Tera CAT6 S250 (not included)	
-	Suitable for the following Corning modules: S500 module / CAXASM-00104-C001, S500 fx /	
	CAXASM-00104-C002, S10 ten / CAXTSM-00112-C001, S10 ten fx / CAXTSM-00112-C004, S250	
	module / CAXESM-00100-C001, S250 fx / CAXESM-00100-C004, S100 eL / CAXGSM-00100-C001, S100 e / CAXDSM-00100-C001	
lodule <u>1</u>	x CAT7 Tera	2
17.039	Module with cut-out and mounting plate (black) for 2x Tera CAT7 (not included)	
	· DAETWYLER unilan PS 1/8 CAT7, CORNING S1200 module S1200 shielded CAT7+	
		-

Module 1x	CAI /
917.008	· Moc
	· DAE

Module with cut-out and mounting plate (black) for 1x Tera CAT7 (not included)
 DAETWYLER unilan PS 1/8 CAT7, CORNING S1200 module S1200 shielded CAT7 +



Data connections for custom modules 917.000, 917.001, 917.061 and 917.062

Suitable data cables can be found in the accessories

Socket/socket



Socket/supply cable

Art. no.	Version	
CAT6a 100	B Patch cable plug/socket 3.0 m	
918.033	· Front: socket RJ45 CAT6a TKM 10GB	
	· Cable, black, with RJ45 plug · Shielded	
	AB Patch cable plug/socket 5.0 m	and the second s
918.034	Front: socket RJ45 CAT6a TKM 10GB Cable, black, with RJ45 plug	
	·Shielded	
CAT6a 10	GB socket TKM	
918.035	CAT6 connector socket TKM 10GB	The gas
	Without cable (designed for tool-free connection of data cable) Shielded	
		12
RJ 45 shu	tter	
930.143	· Cover for Keystone custom module	
	· Does not require tools · Suitable for custom modules 917.000/917.001/917.051/917.052	تبايلي حجا
	· With paper labelling strips	
	Universally suits 1 and 2 data connections Ideal as dust cover for data socket contacts when not in use	alter
		19:01
OWG conn	actions	
Art. no.	Version	
OWG-LC	duplex Keystone	
	duplex Keystone · OWG-LC duplex coupler	
OWG-LC	duplex Keystone	
OWG-LC 918.071	duplex Keystone · OWG-LC duplex coupler · Keystone fixing	
OWG-LC 918.071	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler	
OWG-LC 918.071	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone	
OWG-LC 918.071 OWG-ST 918.073	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing	
OWG-LC 918.071 OWG-ST 918.073	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing	
OWG-LC 918.071 OWG-ST 918.073	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing	
OWG-LC 918.071 OWG-ST 918.073 TOSLINK 918.045	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone fixing Keystone fixing · TOSLINK optic fibre audio coupler	
OWG-LC 918.071 OWG-ST 918.073 TOSLINK 918.045	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone · TOSLINK optic fibre audio coupler · Keystone fixing Keystone fixing	
OWG-LC 918.071 OWG-ST 918.073 TOSLINK 918.045	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone · TOSLINK optic fibre audio coupler · Keystone fixing Keystone fixing · OWG-SC coupler	
OWG-LC 918.071 918.073 918.073 TOSLINK 918.045	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone · TOSLINK optic fibre audio coupler · Keystone fixing Keystone fixing	
OWG-LC 918.071 918.073 918.073 TOSLINK 918.045 918.045 918.045	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone · TOSLINK optic fibre audio coupler · Keystone fixing Keystone · OWG-SC coupler · Keystone fixing	
OWG-LC 918.071 918.073 918.073 TOSLINK 918.045 918.045 918.045	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone · TOSLINK optic fibre audio coupler · Keystone fixing Keystone fixing · OWG-SC coupler	
OWG-LC 918.071 918.073 918.073 TOSLINK 918.045 918.045 918.072	duplex Keystone · OWG-LC duplex coupler · Keystone fixing duplex Keystone · OWG-ST duplex coupler · Keystone fixing Keystone fixing Keystone · TOSLINK optic fibre audio coupler · Keystone fixing Keystone fixing RJ Keystone RJ Keystone	
OWG-LC 918.071 918.073 918.073 70SLINK 918.045 918.045 918.045 918.074	duplex Keystone • OWG-LC duplex coupler • Keystone fixing duplex Keystone • OWG-ST duplex coupler • Keystone fixing Keystone • TOSLINK optic fibre audio coupler • Keystone fixing WG-SC coupler • OWG-SC coupler • Keystone fixing RJ Keystone • OWG-MT-RJ coupler	

Manufacturer	917.000	917.001	917.061	917.062	917.038	917.006	917.003	917.002	917.051	917.052	917.053	917.008	917.038	917.007	917.005
Bachmann Versions			0.				<u> </u>	0.							
CAT6 coupling, shielded 940.044	х	х			х	х									
CAT6 coupling, unshielded 940.112	х	х	x	х											
CAT5e coupling 940.057	х	х	х	х											
ISDN RJ12 socket unshielded	х	х	х	х											
CAT6a 10GB socket TKM, shielded, for automatic telephone 918.035	х	х	х	х											
CAT6a 10GB socket TKM, shielded, with 3.0m cable and RJ45 plug / 918.033	х	х	х	х											
CAT6a 10GB socket TKM, shielded, with 5.0m cable and RJ45 plug / 918.033	х	х	х	х											
Socket cover / blank cover Keystone black / 917.057	х	х	х	х											
RJ45 shutter / 930.143	х	х													
OWG – LC duplex Keystone / 918.071	х	х	х	х											
OWG-SC Keystone / 918.072	х	х	х	х											
OWG-ST Keystone / 918.073	х	х	х	х											
OWG-MT-RJ Keystone / 918.074	х	х	х	х											
TOSLINK Keystone / 918.045	х	х	х	х											
Tyco Electronics / AMP NETCONNECT*															
SL Series 110Connect jacks CAT6	Х	х	х	х											
SL Series 110Connect jacks CAT5e	Х	х	х	х											
SL Series 110Connect jacks CAT3	Х	х	х	х											
SL Series toolless jacks CAT5e	х	х	х	х											
SL Series toolless jacks CAT3	х	х	х	х											
Modular telephone coupler RJ45 / RJ11 coupler	х	х	х	х											
AMP-TWIST-6S SL jack CAT6	х	х	х	х											
Standard 110Connect jacks CAT5e		х		х											
Standard 110Connect jacks CAT3 RJ45 / RJ11		х		х											
AMP-TWIST 6AS SL RJ45 jack	×	х	×	х											
ADC KRONE*															
KM8 RJ45 Modular Keystone shielded		х		х											
KM8 RJ45 Modular Keystone unshielded		x		x											
BELDEN*															
Giga Flex Keystone	х	х	x	х											
Giga Flex MDVO	х	х	x	х											
BKS* (can be used with mounting clip 403-7540xx (not included)															
RJ, RJ250, RJUTP, RJpro and MMC3000pro											Х				

Manufacturer	917.000	917.001	917.061	917.062	917.038	917.006	917.003	917.002	917.051	917.052	917.053	917.008	917.038	917.007	917.005
BRAND-REX*															
10GPLUS jack shielded	х	х	х	х											
Augmented category 6 shielded tool-free jack / AC6JAKS000	х	х	х	х											
CAT5e GIGAPlus jack 110 IDC 568		х		х											
CAT6 Keystone plus		х		х											
CAT6 Keystone snap in	х	х	х	х											
CAT6 Plus		х		х											
Cat6Plus shielded module / C6CJAKS000CR	х	х	х	х											
Category 6 shielded tool-free jack 7 C6CJAKS000	х	х	х	х											
BTR*															
C6A module 180° / 130B11-E					х	х									
E-DAT module CAT6a 8(8)					х	х									
E-DAT module coupling 8(8) CAT6 1309A0-I	х	х	х	х	х	х									
E-DAT module coupling 8(8) CAT6 1309A0-I					х	х									
UTP module CAT5e / 130A08-I / 130A08-I-B1	х	х	х	х											
UAE module CAT5e unshielded 130908-	х	х	х	х											
UAE module CAT6 130909-I / 130909-I-B1					х	х									
UTP module 8 (8) CAT6 / 130A10-I / 130A10-29-I / 130A10-29-I-B1	х	х	х	х											
CIMABOX*															
CAT5e and CAT6 Keystone CJ545U / CJ545F	х	х	х	х											
Shielded and unshielded CJ645U / CJ645F	х	х	х	х											
COBINET*															
TopConnect RJ45 patch cable coupling			х	х											
RJ45 module TopKey			х	х											
CORNING*															
S10 TEN / CAXTSM-00112-C001								х							
S10 TEN fx / CAXTSM-00112-C004								х							
S100 e / CAXDSM-00100-C001								х							
S100 eL / CAXGSM-00100-C001								х							
S1200 module S1200 shielded CAT7 / CAXFSM-00100-C001												х	х		
S250 fx / CAXESM-00100-C004								х							
S250 module / CAXESM-00100-C001								х							
S500 fx / CAXASM-00104-C002								х							
S500fx module / CAXBSM-00104-C002	х	х	х	х											
S500 module / CAXBSM-00104-C001	х	х	х	х											
S500 module / CAXASM-00104-C001								х							

Manufacturer	917.000	917.001	917.061	917.062	917.038	917.006	917.003	917.002	917.051	917.052	917.053	917.008	917.038	917.007	917.005
DAETWYLER*															
unilan RJ45 coupling CAT6 417 446	х	х	х	х											
unilan module KS 1 / 8 CAT6 RJ45 418 050	х	х	x	х											
unilan module KS 1 / 8 CAT5e RJ45 418 051	х	х	х	х											
unilan module KST 1 / 8 toolless CAT6 RJ45 418 053	х	х	х	х											
unilan module KU 1 / 8 CAT6 418 080	х	х	х	х											
unilan module KU 1 / 8 CAT6 418 081	х	х	х	х											
unilan module KU 1 / 8 CAT5e 418 082	х	х	х	х											
unilan module KU 1 / 8 CAT5e 418 083	х	х	х	х											
unilan® module PS-GG45 7A 1000 MHz 400 102 + 400 103****		х		х											
unilan® module KS-T 6A 1/8 tool-less cat. 6A/EA, shielded 418 060	х	х	х	х											
unilan® module KS-TS 6 1/8 toolless Slimline Cat.6/EA shielded 418 054	х	х	х	х											
unilan® RJ45 Keystone coupler CAT6 / 418 057	х	х	х	х											
unilan® module KS-T5 1/8 tool-less cat. 5e, shielded / 418 055	х	х	х	х											
unilan® RJ45 module MS-K 1/8 Cat.6a shielded – modular solution 440 001	х	х	х	х											
unilan® module MS-K Plus 1/8 cat. 6A, shielded 440 004	х	х	х	х											
unilan MS 1 / 8 CAT6 RJ45					х	х									
unilan RJ45 feedthrough coupling CAT6					х	х									
unilan MU 1 / 8 CAT6 RJ45					х	х									
unilan PS 1 / 8 CAT7												х	х		
	х	х	х	х											
EFB ECOLAN*															
E-20050	х	х	х	х											
E-20051	х	х	х	х											
E-20060	х	х	х	х											
E-20061	х	х	х	х											
37486.1	х	х	х	х											
37488.1	х	х	х	х											
37508.2	х	х	х	х											
		х		х											
ERSYS*															
CAT5C-SIJ-FKey-002		х		х											
Ersys 356k-8c5e		х		х											
Ersys 628MC-8-C5E		х		х											
	х	х	х	х											
GIGAMEDIA*															
RJ45 CAT6 UTP / STP	х	х	х	х											
RJ45 CAT6 contacts 110 UTP / STP	х	х	х	х											
RJ45 CAT5e UTP / STP	х	х	х	х											
ЗМ*															
Volition RJ45 K6 module without shielding cover*		х		х											

Manufacturer	917.000	917.001	917.061	917.062	917.038	917.006	917.003	917.002	917.051	917.052	917.053	917.008	917.038	917.007	917.005
KERPEN*															
Eline 250 MLS RJ45 shielded	х	х	х	х											
Eline 250 MLU RJ45 unshielded	х	х	х	х											
ELine 600® GG45 socket / 9ZE20001	х	х	х	х											
VarioKeystone socket module RJ45					х	х									
	х	х	х	х											
NEXANS* (requires additional Keystone clip to fit)															
LANmark-5 snap-in EVO									х	х					
LANmark-6 EVO RJ45 snap-in									х	х					
LANmark-6 10G snap-In									х	х					
LANmark-7 GG45 snap-in									х	х					
					х	х									
Panduit*															
Mini-Com® Mini-Jack™ Category 3 UTP jack modules														х	
Mini-Com® TX5e™ keyed shielded jack modules														х	
Mini-Com® Category 6 UTP coupler module														х	
Reichle de Masari*															
RDM CAT6															х
RUTENBECK*															
UM-real.cat.6a A	х	х	х	х											
	х	х	х	х											
SETEC*															
CAT6 Modular Keystone jack shielded	х	х	х	х											
SeSix eXtra Keystone jack XKJ	х	х	х	х											
SeSix Universal Keystone jack UKJ	х	х	х	х											
SeSix Modular Keystone jack MKJ	х	х	х	х											
SYSTIMAX*															
MGS500 CAT6 series							х								
MGS400 series							х								
								х							
TELEGÄRTNER*															
AMJ module K CAT6+	х	х													
AMJ coupling K CAT6	х	х													
AMJ coupling K CAT5e	×	х													
	x	х	х	х											
TKM*															
RJ-MOD – cat. 6 / 4677682	х	х	х	х											
GG45 / 4677701 (can be fitted with Keystone clip)	×	х	х	х											

Custom modules

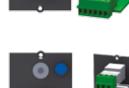
CUSTOM MODULES / Media technology

		Video and	d audio modules See the glossary for detailed information on use/app	olication.
Front	Rear	Art. no.	Version	
• • •		Custom n 917.045	 nodule 1x VGA + stereo 3.5 mm Front: VGA socket and stereo 3.5 mm Rear: VGA socket and 3.5 mm stereo with approx. 0.1 m cable Requires approx. 70 mm installation depth 	black
• • •		Custom n 917.071	 • Front: VGA + stereo 3.5 mm • Front: VGA socket and stereo 3.5 mm • Rear: 10-pole screw terminal (VGA) and 3-pole (stereo) • Requires approx. 50 mm installation depth 	black
°	No.	Custom n 917.160	nodule 1x VGA + stereo 3.5 mm · Front: VGA socket and stereo 3.5 mm · Rear: 10-pole screw terminal (VGA) and 3-pole (stereo) · Requires approx. 50 mm installation depth	white
0 0		Custom n 917.073	 Front: VGA + stereo 3.5 mm Front: VGA socket and stereo 3.5 mm Rear: 5 x BNC socket with approx. 0.3 m cable (VGA) and 3-pole (stereo) Requires approx. 50 mm installation depth 	black
• • •		Custom n 917.150	 nodule 1x VGA + stereo 3.5 mm Front: VGA socket and stereo 3.5 mm Rear: VGA + 3.5 mm stereo socket with approx. 0.2 m cable each Requires approx. 50 mm installation depth 	black
		Custom n 917.134	 nodule 1 x VGA + 3.5 mm stereo jack and button for MediaNet switch Front: VGA socket and 3.5 mm stereo + button, blue illuminated Rear: VGA and 3.5 mm stereo sockets with approx. 0.1m cable + RJ12 socket for button Requires approx. 70 mm installation depth 	black

All modules are supplied with 2 Torx T6 screws. For suitable cables see the Accessories section

Art. no.	Version		Front	Rear
Custom n	nodule 1 x VGA + 3.5 mm stereo jack and button for MediaNet switch	black		2
917.074	Front: VGA socket and 3.5 mm stereo + button, blue illuminated			2
	· Rear: screw terminal 10-pole (VGA) and 3-pole (stereo) + micro clamp terminal (button)			
	· Requires approx. 50 mm installation depth		olumbo	and the

Custom m	odule 1 x VGA + 3.5 mm stereo jack and button for MediaNet switch blac	k
917.077	Front: VGA socket and 3.5 mm stereo + button, blue illuminated	
	· Rear: 5x BNC socket with approx. 0.3m cable (VGA) and 3-pole (stereo) + micro clamp terminal (butto	n)
	· Requires approx. 50 mm installation depth	





1 2445
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Custom m	nodule 1x VGA	black	
917.069	· Front: VGA socket		
	· Rear: 10-pole screw terminal (VGA)	0	10
	· Requires approx. 50 mm installation depth		

917.070 · Front: VGA socket		1
		1
· Rear: 5 x BNC socket with approx. 0.3 m cable (VGA)	0.0000	
Requires approx. 35 mm installation depth		

Custom m	nodule 1x VGA	black	9	
917.072	· Front: VGA plug			
	· Rear: 10-pole screw terminal (VGA)		0	· · · · · ·
	Requires approx. 50 mm installation depth			man

Requires approx. 50 mm installation	n depth	



Video and audio modules

Front	Rear	Art. no.	Version	
		Custom m 917.021	 Nodule 1x DVI-I + stereo 3.5 mm Front: DVI-I socket and 3.5 mm stereo Rear: DVI-I socket and 3.5 mm stereo with approx. 0.1 m cable each Requires approx. 75 mm installation depth 	black
, ,		Custom n 917.078	• Front: DVI-I socket • Rear: DVI-I socket with approx. 0.1m cable • Requires approx. 75 mm installation depth	black
	5	Custom n 918.040	 Front: HDMI Keystone Front: HDMI socket Rear: HDMI socket without cable Fits into Keystone frame 917.000 or 917.001 Requires approx. 85 mm installation depth 	black
		Custom n 917.143	 • Front: HDMI socket • Rear: screw terminal 2 x 9-pole (HDMI) • Requires approx. 40 mm installation depth 	black
0	ARCALLAR	Custom n 917.183	• Front: HDMI socket • Rear: screw terminal 2 x 9-pole (HDMI) • Requires approx. 40 mm installation depth	white
• • •		Custom n 917.145	 Front: display port Front: display port socket Rear: display port socket, without cable Requires approx. 70 mm installation depth 	black

Video and audio modules

Art. no.	Version	Front	Rear
Module 1	x video + Cinch stereo BVM-1 black		
917.026	· Front: Cinch video (yellow) + Cinch stereo (red + white) socket		
	· Rear: Cinch socket without cable		
	I	\odot	3
Custom n	nodule 1x Cinch video + stereo black		<u> </u>
917.085	· Front: Cinch video (yellow) + Cinch stereo (red + white) socket		
	· Rear: 10-pole screw terminal (VGA)		
	· Requires approx. 50 mm installation depth	\mathbf{U}	
		•	_
Custom n	nodule 1x Cinch video + stereo white	۲	and the second
917.161	· Front: Cinch video (yellow) + Cinch stereo (red + white) socket		
	· Rear: 10-pole screw terminal (VGA)	20	
	Requires approx. 50 mm installation depth		and the second s
Module 1	k VBNC + Cinch stereo black		A' A
917.027	· Front: BNC video (yellow) + Cinch stereo (red + white) socket		
	· Rear: BNC + Cinch socket without cable		
		\bigcirc \bigcirc	
Module 1	x S-Video + Cinch stereo black	2	
917.028	Front: S-Video (S-VHS) + Cinch stereo (red + white) socket		
	· Rear: S-Video + Cinch socket without cable		
		\odot	
Custom n	nodule 1x S-Video + Cinch stereo black	1	-
917.081	· Front: S-Video + Cinch stereo (red + white) socket		
	· Rear: screw terminal 4-pole (S-Video) + 3-pole (stereo)		and a
	Requires approx. 30 mm installation depth	\bigcirc \bigcirc	THE R.
		ŧ	100 C
Custom n	nodule 1x S-Video + Cinch stereo white	۲	
917.162	· Front: S-Video + Cinch stereo (red + white) socket		ALL A
	· Rear: screw terminal 4-pole (S-Video) + 3-pole (stereo)	0.0	-
	Requires approx. 30 mm installation depth	0	PPP .
		0	

		Video and	d audio modules See the glossary for detailed information on use/application
Front	Rear	Art. no.	Version
		Module 1	x S-Video + Cinch stereo black
	<u></u>	917.035	· Front: S-Video (S-VHS) + Cinch video (yellow) socket
	2		· Rear: S-Video + video socket without cable
	0.2		
		Custom n	nodule 1x S-Video + Cinch video black
		917.083	· Front: S-Video + Cinch video (yellow) socket
			· Rear: screw terminal 4-pole (S-Video) + approx. 0.3 m cable with 2 x BNC (stereo)
	14		· Requires approx. 30 mm installation depth
<i>6</i>	J		
		Custom n	nodule 1x BNC R / G / B black
		917.088	· Front: BNC socket R / G / B (red / green / blue)
			· Rear: screw terminal 6-pole
			Requires approx. 30 mm installation depth
	50	Custom n 917.090	black • Front: BNC socket R / G / B (red / green / blue) • Rear: BNC socket R / G / B (red / green / blue) • Requires approx. 65 mm installation depth
•	20		hodule 1x sat / TV / radio black
	an Qu	917.030	Front: F-plug connector (sat) and 2x coax (TV + radio) Rear: F-plug connector (sat) and 2x coax (TV + radio)
	O O		Requires approx. 50 mm installation depth
		Custom	nodule 1x TV / radio black
	<u>a</u>	917.117	Front: 2x coax (TV + radio)
	S. C.		\cdot Rear: 2x coax (TV + radio)
\odot			Requires approx. 50 mm installation depth
	-	Custom n 917.022	hodule 1x Cinch stereo black • Front: Cinch stereo socket (red + white)
	~~~~~	J11.022	· Rear: Cinch stereo (red + white) socket without cable
O I	<u></u>		Requires approx. 55 mm installation depth

#### Video and audio modules

Art. no.	Version	Front	Rear
Custom m	odule 1x Cinch stereo black	•	
917.089	· Front: Cinch stereo socket (red + white)		
	· Rear: screw terminal 3-pole (stereo)	0.0	
	· Requires approx. 35 mm installation depth		111
Custom m	odule 1x Cinch stereo white	۲	a)
917.163	· Front: Cinch stereo socket (red + white)	2.6	100
	· Rear: 3-pole screw terminal (stereo)	0.00	
	Requires approx. 35 mm installation depth	0	AND AND A
Custom m	odule 1x stereo 3.5mm black	2	
917.023	· Front: 3.5 mm stereo sockets (red + white)		
-	· Rear: Cinch stereo socket (red + white)		
	· Requires approx. 65 mm installation depth		o 👩 🚬
		8	
	odule 1x stereo 3.5mm Keystone black		
917.157	· Front: 3.5 mm stereo socket	4	
	Rear: 3.5 mm stereo socket with approx. 0.1 m cable	0	
	<ul> <li>Fits into Keystone frame 917.000 or 917.001</li> <li>Requires approx. 65 mm installation depth</li> </ul>		
Custom m 917.091	odule 1x stereo 3.5mmblack• Front: 3.5 mm stereo socket• Rear: screw terminal 3-pole• Requires approx. 35 mm installation depth	• •	
	odule 1x stereo 3.5mm white	Ø	-
917.164	· Front: 3.5 mm stereo socket		and a second
	Rear: screw terminal 3-pole		111
	Requires approx. 35 mm installation depth		
Custom m	odule 1x 6.3mm stereo jack black	•	
917.036	· Front: stereo jack socket 6.3mm		
	· Rear: cable approx. 0.1 m with jack socket 6.3 mm		
	· Requires approx. 65 mm installation depth		
		<b>.</b>	Í

	Audio m	Odules See the glossary for detailed information on use/application.
Front Re	ar Art. no.	Version
	<b>Custom</b> 917.024	black       • Front: XLR 3-pole microphone socket
	/ <b>•</b>	<ul> <li>Rear: cable approx. 0.1 m with XLR plug 3-pole</li> <li>Requires approx. 65 mm installation depth</li> </ul>
	Custom	module 1x XLR socket 3-pole black
	917.096	Front: XLR 3-pole socket
		· Rear: screw terminal 3-pole     · Requires approx. 40 mm installation depth
0 1	Custom	module 1x XLR socket 3-pole white
	917.165	· Front: XLR 3-pole socket
So the		Rear: screw terminal 3-pole
0		· Requires approx. 40 mm installation depth
0	Custom	module 1x XLR socket 4-pole black
	917.099	Front: XLR 4-pole socket
		· Rear: screw terminal 4-pole     · Requires approx. 40 mm installation depth
; ;		
<u>.</u>	Custom	module 1x XLR socket 5-pole black
	917.101	Front: XLR 5-pole socket
		· Rear: screw terminal 5-pole     · Requires approx. 40 mm installation depth
÷	Custom	module 1x XLR plug 3-pole black
	917.095	Front: XLR 3-pole plug
02		· Rear: screw terminal 3-pole     · Requires approx. 40 mm installation depth
÷		
1		module 1x XLR plug 4-pole black
	917.098	Front: XLR 4-pole plug
		· Rear: screw terminal 4-pole     · Requires approx. 40 mm installation depth

#### Audio modules

Art. no.	Version		Front	Rear
Custom n	nodule 1x XLR plug 5-pole	black		
917.100	Front: XLR 5-pole plug		100	
	· Rear: screw terminal 5-pole			
	· Requires approx. 40 mm installation depth		9	
Custom n	nodule Combo series 1x XLR socket 3-pole + 1x 6.3 mm jack socket	black	° °	
917.094	· Front: XLR socket 3-pole + 6.3 mm stereo jack socket			
	· Rear: screw terminal 2 x 3-pole			
	· Requires approx. 40 mm installation depth		<u> </u>	
	· Requires approx. 40 mm installation depth		<u>,</u>	
Custom n	<ul> <li>Requires approx. 40 mm installation depth</li> <li>nodule 1x Speakon 2-pole + 6.3mm stereo jack</li> </ul>	black		
<b>Custom n</b> 917.102		black		
	nodule 1x Speakon 2-pole + 6.3mm stereo jack	black		
	nodule 1x Speakon 2-pole + 6.3mm stereo jack · Front: Speakon socket + 6.3mm stereo jack	black		
	nodule 1x Speakon 2-pole + 6.3mm stereo jack · Front: Speakon socket + 6.3mm stereo jack · Rear: screw terminal	black		
917.102	nodule 1x Speakon 2-pole + 6.3mm stereo jack · Front: Speakon socket + 6.3mm stereo jack · Rear: screw terminal	black black		
917.102	nodule 1x Speakon 2-pole + 6.3mm stereo jack · Front: Speakon socket + 6.3mm stereo jack · Rear: screw terminal · Requires approx. 50 mm installation depth			
917.102	nodule 1x Speakon 2-pole + 6.3mm stereo jack • Front: Speakon socket + 6.3mm stereo jack • Rear: screw terminal • Requires approx. 50 mm installation depth			

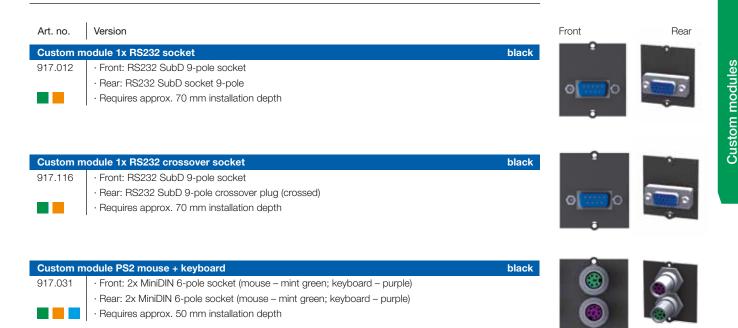
Custom module 1x stereo loudspeaker connection black				
917.114	· Front: stereo loudspeaker connection (red + white)			
	· Rear: screw terminal	-		
	· Requires approx. 30 mm installation depth			

CUSTOM MODULES / Data transmission

	Data trar	See the glossary for detailed information on use/application
Front Rear	Art. no.	Version
	Custom r	module 1x USB 3.0 A / A Keystone black
	917.120	· Front: USB A socket
		· Rear: USB A socket
		Fits into Keystone frame 917.000 or 917.001 (see page 58)
•		Requires approx. 85 mm installation depth
	Custom r	module 2x USB 2.0 A / A black
	917.141	· Front: 2x USB A socket
		· Rear: screw terminal 2x 4-pole
		Requires approx. 40 mm installation depth
•	Custom	module 2x USB 2.0 A / A white
	917.182	· Front: 2x USB A socket
		· Rear: screw terminal 2x 4-pole
0		Requires approx. 40 mm installation depth
	Custom	module 1x USB 2.0 A / B black
	917.018	· Front: USB A socket
		· Rear: USB B socket
÷	-	Requires approx. 85 mm installation depth
	<b>Custom</b> 1 917.019	module 1x USB 2.0 B / A black
	017.010	· Rear: USB A socket
		Requires approx. 85 mm installation depth
	Custom	nodule 1x FireWire black
	917.037	· Front: FireWire socket 6-pole
		· Rear: FireWire socket 6-pole
,		Requires approx. 85 mm installation depth
		module RS232 socket black
	917.075	Front: RS232 SubD 9-pole socket
		· Rear: screw terminal 9-pole     · Requires approx. 40 mm installation depth
	<b>Custom</b> 917.076	black       • Front: RS232 SubD 9-pole plug
	911.070	· Front: RS232 SubD 9-pole plug     · Rear: screw terminal 9-pole
		· Requires approx. 40 mm installation depth

#### Data transmission

See the glossary for detailed information on use/application.



#### Power transmission

Art. no.	Version			
Custom n	nodule Power Con blue (power input)	black		-
917.112	· Front: Power Con socket, blue	1		
	· Rear: screw terminal, incl. 2 crimp sleeves and cover cap		2)	
	· Requires approx. 40 mm installation depth			- 199
			ALC: NO	

Custom m	Custom module Power Con grey (power outlet) black			
917.113	· Front: Power Con socket, grey			
	· Rear: screw terminal, incl. 2 crimp sleeves and cover cap			a de la calega de
	· Requires approx. 40 mm installation depth			

■ FACILITY SYSTEMS ■ IT RACK PANELS ■ ELECTRICAL INSTALLATIONS

	Control	See the glossary for detailed information on use/application.
Front Rear	Art. no.	Version
0	Custom r	nodule with stainless steel button black
	917.046	Front: stainless steel button; switching capacity: 50 mA/24 V/DC;
	0111010	· Rear: screw terminal 2-pole
		· Requires approx. 30 mm installation depth
	Custom r	nodule with stainless steel button, blue illuminated black
	917.047	· Front: stainless steel button, blue illuminated (ring illuminated);
		Switching capacity: 50 mA/24 V/DC
		· Rear: solder pins 4-pole
		· Requires approx. 30 mm installation depth
		nodule with automatic switchoff button black
	917.060	· Front: button, black;
		• Rear: GST15i2 connector with approx. 1.0m cable (suitable for power strips with automatic switchoff
		device, e.g. STEP switchoff device 906.005)
		· Requires approx. 40 mm installation depth
0	Custom r	nodule with button black
Δ	917.152	· Front: on/off switch
0		· Rear: approx. 1.0m 3G 1.0mm ² cable with end sleeves (labelled)
		· Requires approx. 60 mm installation depth
	<b>Custom r</b> 917.135	Important Sector       black         black       • Front: 2-pole rocker switch, green         • Rear: approx. 1.0m H05VV-F 4G 1.50mm² cable with end sleeves (labelled)         • Requires approx. 60 mm installation depth
	Custom	nadula with 4 key keyned far MadiaNat oantrol wit
	917.127	nodule with 4-key keypad for MediaNet control unit         black           • Front: 4 buttons, white, blue illuminated, with various pictograms for labelling         black
5721	011.121	Rear: 2 x RJ45 sockets for connecting to media controller and linking to further modules of the same
		type
		· Requires approx. 30 mm installation depth
		Note: cannot be used in electrical installations.
	Custom	nodule with 4-key keypads for KNX application black
	917.056	Front: 4 buttons, white, blue illuminated, with various pictograms for labelling
	0111000	programmable on KNX installations; with integrated bus coupler;
		Power supply: system voltage 30 V DC via bus push-in terminal;
		· Rear: bus push-in terminal, 2-pole
		Requires approx. 35 mm installation depth
	Custower	nodulo with 4 kov kovnodo for EnOccen emplication
	917.093	nodule with 4-key keypads for EnOcean application         black           • Front: 4 buttons, white, blue illuminated, with various pictograms for labelling         black
	011.000	programmable on EnOcean application; with built-in radio module, battery buffered;
	<b>1</b>	Requires approx. 35 mm installation depth

Art. no.	Version		
Custom m	nodule blank cover	black	0
917.009	· Blank cover as placeholder or for you to mount your own connector		
	Material: plastic, black, thickness 1.8 mm		
Custom m	nodule blank cover	white	0 2
917.166	· Blank cover as placeholder or for you to mount your own connector		COMPANY OF STREET,
	Material: plastic, white, thickness 1.8 mm		
<b>Custom n</b> 917.010	• Blank cover with screw dome     • Blank cover as placeholder or for you to mount your own connector	black	10000
917.010	Screw domes on rear of module for fastening		
	e.g. boards or blank holders		
	Material: plastic, black, thickness 1.8 mm		
Custom	nodule blank cover with screw dome	white	0 0 0
917.167	· Blank cover as placeholder or for you to mount your own connector	white	
	Screw domes on rear of module for fastening		
	e.g. boards or blank holders		
	· Material: plastic, white, thickness 1.8 mm		· ·
Screws To 917.041	<ul> <li>T6 for custom modules in facility power strips</li> <li>Designed for 10 screwing cycles; contents: 10 pcs in colour black</li> </ul>	black	ozer
917.041	· Designed for to screwing cycles, contents. To pos in colour black		9299
			÷
Sorowo To	rx T6 for custom modules in electrical installations (mounting plate) and 10" + 19" panels	black	
) 917.111	· Designed for 10 screwing cycles; contents: 10 pcs in colour black	DIACK	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			9592
			0900
Forx T6 so	rewdriver	black	
917.040	$\cdot$ 1x Torx T6 screwdriver to fit the screws on the custom modules		100



# Media technology

Bachmann media technology systems provide a flexible and elegant solution for custom media management in conference and training rooms. From simply switching between image and sound signals to a complete central control of all media, this solution can be tailored to the needs of every user.

With its modern components, including control elements from the global market leader AMX[®] plus all connecting systems, Bachmann media technology systems offer all that is required for any application. Thanks to its modular construction and intelligent cabling, the system can be quickly installed or adapted to specific requirements.

The flexibility of Bachmann complete solutions is complemented by their elegance. Regardless of how complex the Bachmann media technology system configuration is, it can be integrated seamlessly into the Bachmann facility systems.

# Media Express

Plug-and-play for simplicity and efficiency.

Bachmann's Media Express system for media technology lets you switch between different image and sound signals and is already integrated in the connection panels of the Bachmann facility product ranges. In addition to switching between image and sound signals, Media Express also extends the network connection to each user.

# Media Switch

Flexible and reliable thanks to high-quality components.

The Media Switch (Amx® inside) allows simple routing of image and sound signals from multiple users to various output devices such as projectors or monitors. All these elements can be combined with existing Bachmann facility products.

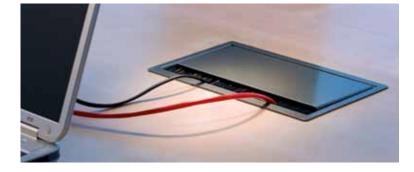
# **Media Control**

Simple control of complex processes in media and facility applications.

The Media Control (Amx® inside) system uses control units to govern the various media from a central point. This makes it possible to activate various processes in a meeting or conference environment at the touch of a button on the Bachmann connection panel. The system is very user-friendly and easy for visitors to grasp quickly.

### Media Express –

Plug-and-play for simplicity and efficiency.





Media Express is is the solution for simple switching between image and sound signals. This system is already integrated in the connection panels of the Bachmann facility product ranges. In addition to switching between signals, it gives a network connection to each user.

With Media Express the individual connection panels are linked in a series known as a 'daisy chain'. This chain requires only one cable set with 3 connections. Connections are inserted into the connection panels on a plugand-play basis. No programming of the units is necessary and the sequence of the connection units can be freely selected. The system is self-initialising and can be used immediately.

#### Flexible switching

The signal-switching function enables image and sound signals to be sent from the connection panel to a D/V projector or monitor screen. Authorisation to transmit the user's image and sound signal is activated by means of a dedicated button. An LED on the button indicates activation.

For image transmission the common 15-pole VGA sub-D system is provided on the front of the connection panel. This allows laptops to be connected easily using VGA connector cables. Of particularly practical benefit, no additional signal booster is necessary as this is integrated into the feeder box. This assures problem-free image transmission (so long as the maximum number of users and cable length are observed). The system can be built with a single infeed.



Up to 6 connection panels can be linked via connector cables. No central switching box is required. Projectors or monitors can be connected directly to the feeder box.

#### Simplicity of linking

Connection to the network requires only one access point (via the feeder cable). Two RJ45 LAN ports with signal boosting on each connection panel allow laptops to be connected. Thus the network is linked from one user to the next via the connector cable. The built-in network switch is designed for 10/100 Mbit and is sufficient, depending on the specific installation, for up to 6 participants.

#### Feeder box

The system structure requires the use of a feeder box. This box provides the link between the connection panels and the output devices (projector, audio, network etc).

The advantages at a

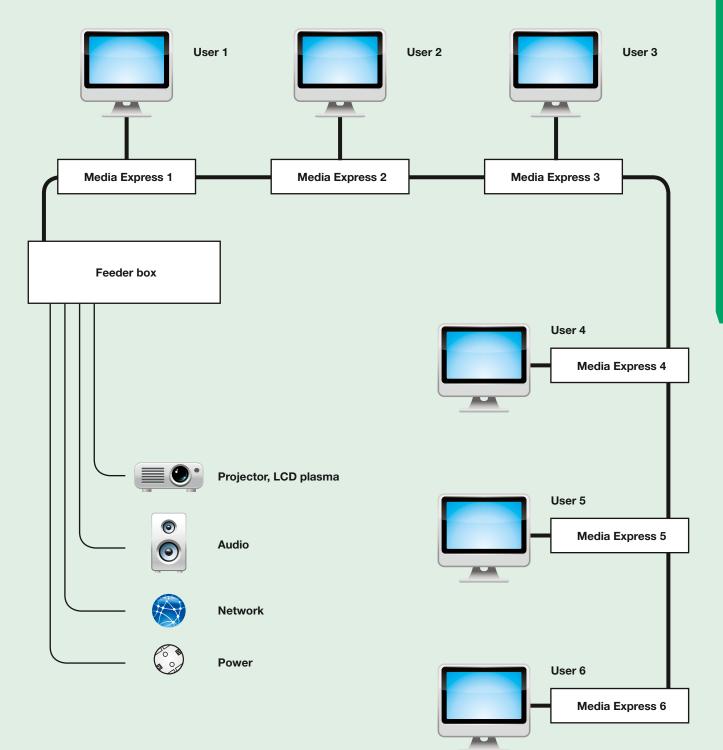
glance

- Simple plug-and-play principle
- Electronics already integrated in the connection panel
- Available for most Bachmann facility systems

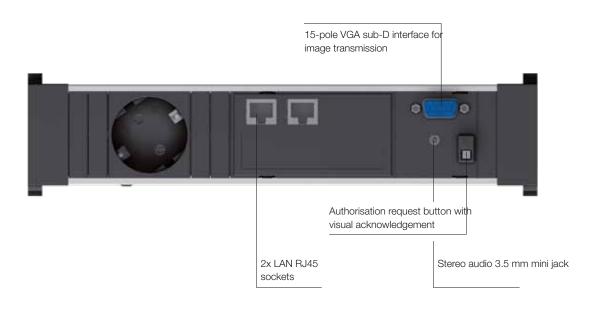
Pre-fitted cabling

- Extension of image, sound and network signals
- Simple, decentralised signal switching
- Compact and space-saving unit

Configuration information and lists of applications are available at **www.bachmann.com**. Should you have any questions concerning your project, contact us at **media@bachmann.com** for assistance.



#### Overview of Media Express connections



#### Media Express technical data:

#### Video/Audio:

- Automatic hardware detection
- Input signal: 0.7 Vss/75 ohm RGB, 5V H&V-sync, 1.8 Vss audio, 24 bit/96 kHz
   VGA 15-pole sub-D plug
- Output signal: 0.7 Vss/75 ohm RGB, 5V H&V-sync, 3.5 Vss audio, 24 bit/96 kHz
   VGA 26-pole sub-D socket
- Video bandwidth: (+/-3dB) 300 MHz
- Resolution max: 1600 x 1024
- Transmission distance: 20x MediaNet Express modules/cable length: max. 50 m total
- Audio: stereo L/R
- •

#### Connections:

- 1x 15-pole VGA sub-D
- 1x 3.5 mm mini stereo jack socket
- 2x LAN RJ45 sockets
- Sockets as per connection unit selected
- ٠

#### Network:

- 2x RJ45 ports, 10/100 Mbit
- CAT5 with LED (speed and active LED)

#### Power supply unit:

- 2.5A; 18V
- Max. current consumption per connection unit: 500 mA

#### Media Express

The Media Express unit can also be integrated into other facility systems such as Power Frame, Desk and Step. Please ask us for the configuration you require.

- $\cdot$  Anodised aluminium profile, black socket outlets, rotated 35°
- Media Express
- · Power input: GST18i3
- · Power outlet: GST18i3

#### Art. no. Version

1x earthin	g contact, GST18i3, short (TOP FRAME, CONFERENCE)	Length: approx. 260 mm
1x Media E	Express	
903.2000	<ul> <li>1 socket outlet with earthing contact</li> <li>1 Media Express</li> </ul>	The second second
3x earthin	g contact, GST18i3, long (TOP FRAME, CONFERENCE)	Length: approx. 444 mm CUSTOM
1x Media E	Express, 2x custom modules	
903.2001	<ul> <li>· 3 socket outlets with earthing contact</li> <li>· 1 Media Express</li> <li>· 2 custom modules, empty</li> </ul>	the searce of th

2x earthin	g contact, GST18i3 (CONI)	Length: approx. 356 mm CUSTOM
1x Media E	xpress, 1x custom module	
903.3000	· 2 socket outlets with earthing contact	
	· 1 Media Express	
	· 1 custom module, empty	63.3
3x earthin	n contact, GST18i3 (CONI)	Length: approx_356 mm

 1x Media Express

 903.3001
 · 3 socket outlets with earthing contact

 · 1 Media Express



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#### Media Express feeder box

A	Art. no.	Version
M	Media Express feeder box	
S	Signal feeder unit for Media Express system	
903.400 · Distribution of signals:		Distribution of signals:
		<ul> <li>Image (D/V projector), 15-pole VGA sub-D to 26-pole sub-D</li> </ul>
		<ul> <li>Sound (loudspeakers), stereo jack to 26-pole sub-D</li> </ul>
· · · · · · · · · · · · · · · · · · ·		– Data (network), RJ45 to RJ45
		<ul> <li>Signal authorisation on 26-pole sub-D</li> </ul>
		- RS-232 interface for optional programming

#### Media Express feeder cable

· Feeder cable length 2.0 m

· The cable set is held together in a textile-fibre sleeve

#### Art. no. Version



<b>.</b> ^p	
cab	ble to feeder box
	<ul> <li>1x 15-pole VGA plug/26-pole sub-D socket</li> </ul>

- $\cdot$  1x CAT6 patch cable plug/plug, shielded
- $\cdot$  1x power cable, right-angle earth contact plug and GST18i3 socket

#### Media Express connector cable

- · Connecting cable, length 2.0 m
- $\cdot$  The cable set is held together in a textile-fibre sleeve

#### Art. no. Version

Media Exp	ress connector cable
To link one	connection unit to another
903.600	· 1x26-pole sub-D (90° plug/45° socket)
	<ul> <li>1x CAT6 patch cable plug/plug, shielded</li> </ul>
	$\cdot$ 1x power cable, Wieland GST18i3 plug and GST18i3 socket

#### Media Express desk PSU

Art. no.	Version
----------	---------

Media Express desk PSU, 45 W				
Additional voltage supply for Media Express module				
903.402	· Input voltage : 90-264 V AC			
	Output power: 18 V DC / 2.5A			
	Mains cable with Euro plug			
	$\cdot$ Low-voltage connecting cable, approx. 1.8 m with DC right-angled connector			

### Typical order for 4 presentation stations



Quantity Art. no.	Description	
4x	For articles of your choice, see page 87	Media Express
	(903.2000, 903.2001, 903.2000, 903.2001)	

Quantity	Art. no.	Description	
1x	903.400	Signal feeder unit for Media Express system	Feeder cable
1x	903.500	Feeder cable to feeder box	

Quantity	Art. no.	Description	
Зх	903.600	Connecting cable to link one connection unit to another	Connections





0

Audio





Projector

Network

Power

Configuration information and lists of applications are available at **www.bachmann.com**.

Should you have any questions concerning your project, contact us at **media@bachmann.com** for assistance.

## Media Switch -

Flexible and reliable thanks to high-quality components.



#### Easy to install

Today's meeting rooms are equipped such that the signal to an output device (projector etc) can be switched between various sources. Key requirements are also ease of installation, ease of use and flexibility. An exemplary solution to all these conditions is the Media Switch system.

#### Ease of integration

The control elements can be fitted into existing Bachmann facility products on a plug-and-play basis. Like all Bachmann media technology systems, Media Switch is also simple to plan, easy to install and straightforward to use. Multiple users can dock their laptops simultaneously via the multiple connection panels.

The VGA sockets on the connection panels allow e.g. presentations to be sent to the projector. As soon as a user presses the button on his/her connection panel, the switch selects the image signal on that panel/laptop. The connection to the switch is set up via a pre-prepared set of cables. Pressing the button issues a command to the switch to route the incoming image and sound signals to the projector and loudspeakers.

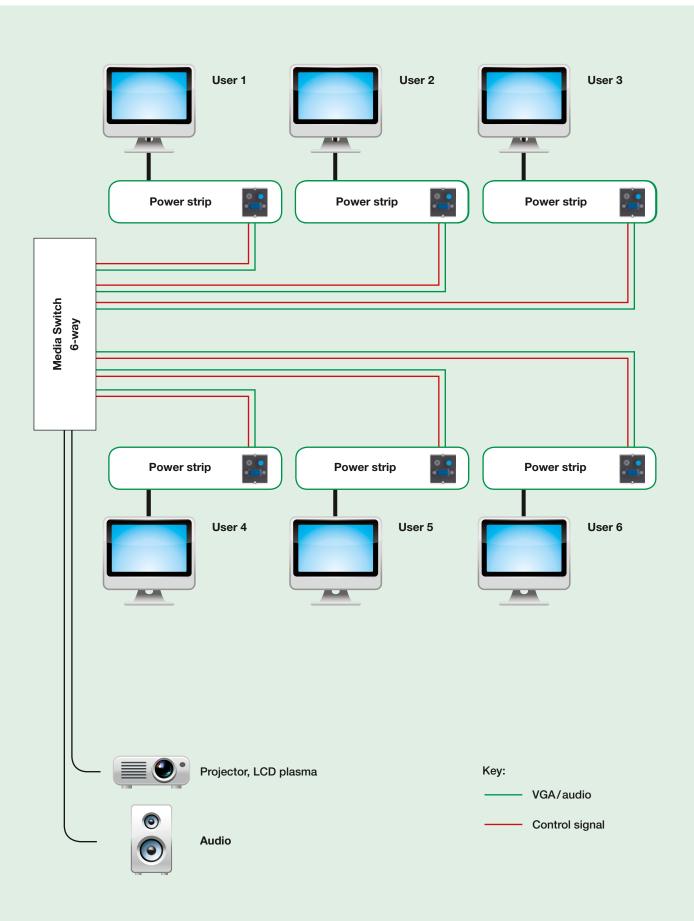


#### Signal booster

To ensure problem-free image signals, it is recommended that signal boosters are used with the Media Switch system. This enables image signals from devices with less powerful graphics cards to be transmitted with significantly better quality. The signal booster is fitted between each connection panel and the switch.

Switching is effected by pressing the button on a custom module with VGA and mini audio jack on the connection panel. As soon as the button is pressed, the image and sound signals are routed to the switch. The button is illuminated blue until another user activates the button on his/her own connection panel to obtain signal authorisation.

The advan-	Simple, low-cost signal switching
tages at a	Star configuration, ideal for small meeting rooms
glance	<ul> <li>Plug-and-play inputs</li> </ul>
	<ul> <li>Decentralised switching: each user can request</li> </ul>
	authorisation by pressing a button
	Additional switches can be cascaded one after the
	next to expand the system for larger numbers of
	users
	Connects to all Bachmann facility systems via
	built-in VGA, mini audio jack and switch button
	connections (see art. no. 917.143)
	<ul> <li>Pre-prepared cabling for connection between</li> </ul>
	connection panel/signal booster and switch



#### Switch

- Power supply: 9–12V DC 15W
- $\cdot$  Supplied with power cable and operating instructions in German and English



For switch 903.100 there are two options for connecting to the custom module 917.134:

- 1. Without acknowledgement of signal authorisation, i.e. button is not illuminated when authorisation is granted. For this the set is used with the **signal converter 903.113** (see page 106).
- 2. With acknowledgement of signal authorisation, i.e. button is illuminated blue when authorisation is granted. For this the set is used with the **signal converter 903.112** (see page 106).

#### Art. no. Version

Switch	L x W x H: 145 x 115 x 40 mm
2x VGA/au	udio input, 1x VGA/audio output
903.100	· RGB input/output: analogue HD-15 (VGA)
	– Impedance 75 ohms/Max. signal level 1V p-p
	– RGB bandwidth: 400 MHz -3 dB
	– RGB return loss: 45dB@10MHz, 27dB@100MHz
	<ul> <li>Adjacent input crosstalk: 73dB@10MHz, 50dB@100MHz</li> </ul>
	· Audio input/output: analogue 3.5 mm stereo/max level 2V p-p



For the switch **903.101** there is the option of connecting the custom module **917.134** by means of the signal converter **903.112** (see page 106) with visual acknowledgement as button illumination.

#### Art. no. Version

Switch		L x W x H: 225 x 125 x 45 mm
4x VGA/au	idio input, 1x VGA/audio output	
903.101	· RGB input/output: analogue HD-15 (VGA)	
	<ul> <li>Impedance 75 ohms/Max. signal level 1V p-p</li> </ul>	
	– RGB bandwidth: 350 MHz -3 dB	
	– RGB return loss: 45dB@10MHz, 32dB@100MHz	
	· Audio input/output: analogue 3.5 mm stereo/max level 2V p-p	

Suitable mountings on page 106



For the switch **903.102** there is the option of connecting the custom module **917.134** by means of the signal converter **903.112** (see page 106) with visual acknowledgement as button illumination.

#### Art. no. Version

Switch		L x W x H: 482 x 170 x 45 mm
6x VGA/au	idio input, 1x VGA/audio output	
903.102	· RGB input/output: analogue HD-15 (VGA)	
	– Impedance 75 ohms/Max. signal level 1V p-p	
	– RGB bandwidth: 400 MHz -3 dB	
	– RGB return loss: 45dB@10MHz, 2dB@100MHz	
	· Audio input/output: analogue 3.5 mm stereo/max level 2V p-p	
	Mounting for 19" fitting included	

#### Signal booster

- Interference can sometimes occur, particularly with image transmission. This may be caused e.g. by graphics cards on the laptop being of a lower spec. or by long cable lengths
- $\cdot$  To improve these image signals we recommend that each user uses a signal booster
- $\cdot$  This provides optimum boosting of the signal and prevents interference when used by different users
- $\cdot$  Additional output (VGA 15HD) allows an additional monitor to be connected
- · Compact, easily-installed unit



#### Art. no. Version

VGA signa	al booster	L x W x H: 150 x 70 x 35 mm
1x VGA inp	put, 2x VGA output	
903.104 · RGB input/output: analogue HD-15 (VGA),		
	– 1x video IN/2x video OUT	
– Impedance 75 ohms/Max. signal level 1V p-p		
	– Output gain 1.0 (unity)	
	– RGB bandwidth: 400 MHz -3 dB	
	– Power supply: 9V DC 3W	
	· Supplied with power cable and operating instructions in German and	English

### Typical order for 4 presentation stations



Quantity	Art. no.	Description	
4x		Power strips from Bachmann facility systems with blank space for	Deak connection panel
		custom module	Desk connection panel
4x	917.134	Custom module VGA, mini audio jack and button for Media switch	

Quantity	Art. no.	Description	
4x	903.104	VGA signal booster	
4x	918.009	VGA connecting cable from power strip to signal booster	Signal booster
optional:			
4x	918.023	Mounting	

Quantity	Art. no.	Description	
1x	903.101	Switch 4-way VGA + audio	Switch
1x	918.023	Mounting	

Quantity	Art. no.	Description	
4x	903.107-110	VGA + sound + authorisation cable set/various lengths available	Cabling
1x	903.112	2-6-way signal converter with acknowledgement	



Projector

Configuration information and lists of applications are available at **www.bachmann.com**.

Should you have any questions concerning your project, contact us at media@bachmann.com for assistance.

## Media Control -

Simple control of complex processes in media and facility applications.



#### Central control

To control a variety of media from a central point, control units are used. This makes it possible to activate various processes in a meeting or conference environment at the touch of a button on the Bachmann connection panel. The system is very user-friendly and easy even for visitors or new users to grasp quickly. The various procedures can be individually performed between the operator panel (in the connection panel) and the control unit.



#### Simple to programme

Programming is very simple and can soon be set up with the software provided and the instruction manual (German/English). Subsequent alterations or additions can also be entered without problems.

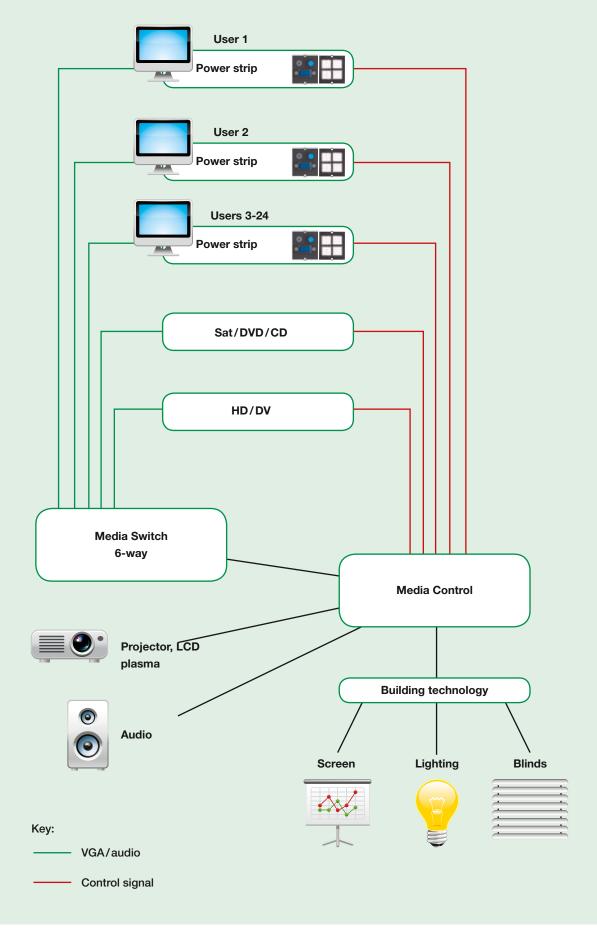
The control functions allow control of various media: e.g. projector, DVD, SAT, TV, projector screen, lighting, blinds etc.

The 2 built-in 230V~ 10A relays can be used for example to connect a screen directly to the control unit. This means that a power cable is sufficient for control.

#### The advantages at a glance

- Central control of multiple media
- Very easy to use
  - Simple to install and easy-to-learn programmingPlug-and-play operation adapted to Bachmann
- Up to 6 button modules can be connected in series or 2 strings with additional modules can be
- programmed for up to 24 button commands
  Multiple buttons can be programmed on the control unit with the same command (thus also allowing decentralised control)
- Simple connection of button modules via standard RJ45 patch cables (plug/plug)
- 2 built-in relays, 230 V~ 10 A with 1 earthing contact coupling for direct connection
- Ready-to-connect unit with accessories (programming cable, IR transmitter)
- Can be retrofitted to existing systems
- Pre-programmed demo version on CD
- Basic programming can be reinstalled if necessary (from CD or download).
- If desired, programming (sequences, devices etc) can be created and made available by Bachmann as an option

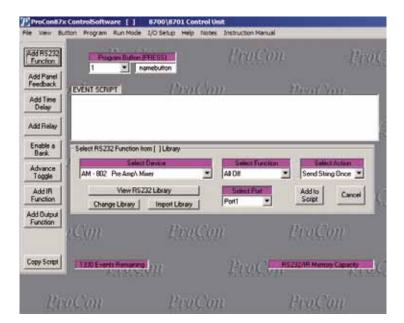


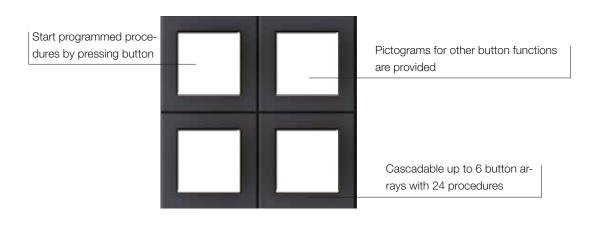


bachmann.com / 99

#### Media control

The software supplied makes even complex procedures simple to programme.





#### Keypad on page 106



#### Media Control

- · Memory: 8 Kb
- · 2x 230V~ relays 10A, built-in
- · 2x RS-232 interface
  - Baud rate 1200-57 600
  - Data bits 7/8
  - Stop bits 1/2
  - Command string 1-22 bytes
- · 2x infrared interface PPM or PWM
  - PWM frequency 30 62 KHz
- Power connection: 100–240V~
- · PSU, programming cable, 2 x infrared transmitters, programming software and operating instructions in German and English included



#### Art. no. Version

Control u	Control unit L x W x H					
Control sy	stem with programming function					
903.105	Control system with programming function					
	· I/O port: external switch detect input					
67X Q	ONTHOLLER	RACH				
		AMX				
	Program					
	1 CE 104	N THORE ACTIVITY				
alered a	Maken helk	21. 2. 4. 21. 21.				
	AND ALL OF ALL O					

#### TCP/IP control unit

L x W x H: 225 x 125 x 45 mm

Control system with programming function and TCP/IP interface 903.106

- · Control system with programming function and TCP/IP interface
  - $\cdot$  Devices from different manufacturers can communicate via the network
  - · I/O port: input: external switch detect

Programm	Programming according to requirements		
Available for control units 903.105 and 903.106			
903.114	4 · Programming is done by entering:		
	<ul> <li>– connected devices (manufacturer, type)</li> </ul>		
	<ul> <li>required procedures (max. 24 commands)</li> </ul>		
	· The file is sent via e-mail		

#### Switch function

Combined source switch for 4 to 2 VGA, 6 to 2 S-video or CVBS and 10 to 2 stereo audio signals. In all cases the output signal is present on the two outputs at the same time.

Ideal for applications with multiple different signal sources – RGBHV, S-video, CVBS and audio. The six video inputs can be connected to either an S-video or a CVBS signal. A combination of both signal types is possible.

The 10 audio inputs are designed for unbalanced stereo audio signals. One output offers an unbalanced and the other a balanced stereo signal for further processing. The audio input signal levels and the volume of the audio outputs are adjustable. Sound and video can both be silenced (mute/blank).

#### Control function

The functions are controlled manually via the front operator panel or remotely via RS-232 from a button module on a connection panel. When operating the unit via RS-232 it is possible to switch audio and video inputs separately. A programmable RS-232 output port is also provided; this can be used to control displays or projectors.



#### Art. no. Version

Presentation switch L x W x H: 150 x 70 x 35		
4x input/2	x output VGA, 10x input/2x output audio, 6x input/2x output S-video	)
903.103	· Inputs/signals: 4x RGBHV, 6x S-video/CVBS, 10x stereo audio	
	· Outputs: 2 of each (dual)	
	Bandwidth: 350 MHz	
· Stereo audio: unbalanced to balanced		
Front operator panel and operation via RS-232		
	· RS-232 control output for connected playback equipment	
	· Power supply: 100 – 240 V AC 15 W	
	· Supplied with power cable and operating instructions in German and	English
	Mounting for 19" fitting included	

#### Typical order for 4 presentation stations



Qu	uantity	Art. no.	Description	
4x			Power strips from Bachmann facility systems with blank space for	
			custom module	Desk connection panel
4x		917.134	Custom module VGA, mini audio jack and button for Media switch	
1-(	6x	917.127	Button custom module	

Quantity	Art. no.	Description	
4x	903.104	VGA signal booster	
4x	918.009	VGA connecting cable from power strip to signal booster	Signal booster
optional:			
4x	918.023	Mounting	

Quantity	Art. no.	Description	
1x	903.101	Switch 4-way VGA + audio	Switch
1x	918.023	Mounting	

Quantity	Art. no.	Description	
1x	903.105	Control unit	Control unit
1x	903.111	Control unit converter	

Q	uantity	Art. no.	Description	Cable output
1-	-6x	918.006 - 008	Patch cable for connecting button custom module 917.127	Cable Output
	_ 6			

Lighting

Blinds

Configuration information and lists of applications are available at **www.bachmann.com**.

Audio

Should you have any questions concerning your project, contact us at **media@bachmann.com** for assistance.

Screen

Projector

#### Facility control modules



Pushbutton modules in the Bachmann custom-module format offer convenient control of light and blinds in open-plan and individual offices and in meeting and conference rooms.

The control module is installed within the user's easy reach on the desk connection panel on office workstations or in meeting rooms. Then the lighting and blinds settings can be controlled with ease from the user's seat. The increased convenience lets the user respond to changing environmental situations – and thus save energy.

#### KNX pushbutton module 4-way



The 4-way KNX pushbutton module is designed as a custom module and can be integrated into Bachmann desk connection panels either by the manufacturer or retrospectively. Installation in rack and electrical installations is also possible with the custom module system.

Functions such as switching, dimming, storage of lighting scenes, blind control etc can be programmed by specialist personnel using the standard ETS software. For this, specialist knowledge and in-depth KNX training is required.

Each button can be custom configured and labelled accordingly (common pictograms are supplied). A blue lamp indicates the activity status.

This pushbutton module can be simply installed by KNX-trained personnel. The appropriate bus coupling is built into the module and can be simply connected to the bus cable by means of clips.

#### KNX/EIB 4-button custom module

- Front:
- 4x buttons, square, can be labelled, blue backlit, programmable on EIB/KNX installations
- With integral bus coupler and bus terminal (can be labelled with physical address)
- Power supply: system voltage 30V DC via bus terminal
- Includes inserter with common pictograms
   Use: e.g. as buttons for controlling lighting,
- blinds etc.



Art. no. Version



#### EnOcean pushbutton module 4-way

The EnOcean pushbutton module offers wireless control of e.g. lighting, blinds, projector screen etc. Installation is simple: the pushbutton module can be used in Bachmann desk connection panels with custom modules or in wall or trunking installations. The required control signals are transmitted wirelessly to the receiving device. Each button can be separately programmed. With 868 MHz EnOcean technology, interference is practically eliminated.

No cable installation is required for this module. Power is obtained from a built-in battery that will last for up to 1 million switching cycles.

If required the EnOcean pushbutton module can also be linked into the KNX building control system bus.

Front:

· Supply voltage:

blinds etc.

radio module battery-backed

4x buttons, square, can be labelled, backlit blue
 Programmable on EnOcean applications

Includes inserter with common pictograms
Use: e.g. as buttons for controlling lighting,

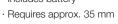
#### EnOcean 4-button custom module



Art. no. Version

#### Micro clamp terminals 917.093 Rear:

Includes battery



built-in depth



#### Custom modules

Version Art. no.

### Custom module VGA, mini stereo jack and button for media switch

Cus Can 917.

- 917.134  $\cdot$  Custom module to fit in Bachmann connection panels · 1x 15-pole VGA socket/socket
  - $\cdot$  1x 3.5 mm jack socket with approx. 0.1 m cable and 3.5 mm jack socket
  - $\cdot$  1x button, blue illuminated, with approx. 0.1 m cable and RJ12 for controlling switch
  - · Requires approx. 70 mm installation depth



tom module with 4x buttons for media control unit				
n be use	ed in all facility systems			
.127	· Custom module, can also be retrofitted			
	· 4 buttons, white, blue illuminated, with various pictograms for labelling			
	· On rear: 2 x RJ45 sockets for connecting to media control unit and linking to further modules of the			
	same type			
	Includes inserter with common pictograms			

· Requires approx. 80 mm installation depth



Patch cable plug/plug			
To connect custom module 917.127 to signal converter			
918.006	1.0 m	· End 1: RJ45 plug Hirose TM12	
918.007	3.0 m	· End 2: RJ45 plug Hirose TM12	
918.008	5.0 m	·Shielded	

#### Media signal converter

Version

Art. no.



2-way sigr	nal converter	
To impleme	To implement the authorisation signals of each participant. Without visual acknowledgement on button.	
903.113	Input: 2x RJ12 socket	
	Outlet: 1x 2-pole terminal for connection to switch	
	· Only useable with 903.100 switch	

For the switch 2x, 4x and 6x VGA/audio, the custom module 917.134 is connected by means of the 2-6-way RS 232 signal converter (903.112) with visual acknowledgement as button illumination.



2-6-way s	2–6-way signal converter L x W x H: 225 x 125 x 45 mm To implement the authorisation signals of each participant. With visual acknowledgement on button.	
To impleme		
903.112	Input: 6x RJ12 socket	
	· Outlet: 1x 9-pole RS-232 sub-D	

- $\cdot$  With 1.0 m cable with push-in terminals to connect 2-pole terminal to switch · Includes PSU



Converter	box
For connect	ting an additional series of button modules
903.111	Media converter for connection to control unit
	· End 1: RS-232
	· End 2: RJ45
	· Includes PSU
Mounting	for converter/control unit
For fitting u	under the tabletop



918.023 · Mounting to install unit under a tabletop (see page 94)

#### Combi cables and extensions

15-pole V	GA HD exte	nsion cable	
1x VGA			
918.009	1.0 m	High-quality VGA cable to connect:	
940.047	3.0 m	- connection panel to laptop	
940.048	5.0 m	<ul> <li>– connection panel to signal booster</li> </ul>	
		- signal booster to monitor/TV (optional)	
		· End 1: 1x 15-pole VGA HD plug	
		· End 2: 1x 15-pole VGA HD plug	N. Carton
1x VGA, 1	x mini audio	jack	
1x VGA, 1 918.066	x mini audio 1.0 m	ack + High-quality VGA cable to connect:	
	1		
918.066	1.0 m	High-quality VGA cable to connect:	
918.066 918.067	1.0 m 3.0 m	High-quality VGA cable to connect:     – connection panel to laptop	
918.066 918.067 918.068	1.0 m 3.0 m 5.0 m	<ul> <li>High-quality VGA cable to connect:</li> <li>– connection panel to laptop</li> <li>– connection panel to signal booster</li> </ul>	
918.066 918.067 918.068	1.0 m 3.0 m 5.0 m	<ul> <li>High-quality VGA cable to connect:</li> <li>– connection panel to laptop</li> <li>– connection panel to signal booster</li> <li>– signal booster to monitor/TV (optional)</li> </ul>	

Media combi cable			
	1x VGA, 1x mini jack, 1x control signal		
	903.107	1.0 m	
	903.108	3.0 m	Professional high-quality VGA cable together with audio cable and control cable for
	903.109	5.0 m	switching switches via the pushbutton in custom module 917.134
	903.110	10.0 m	· End 1: 1x 15-pole VGA HD plug, 1x 3.5 mm mini jack plug;
			1x RJ12 for button
			· End 2: 1x 15-pole VGA HD plug, 1x 3.5 mm mini jack plug;
			1x RJ12 for button
			Plug with metal housing and shielding



Art. no. Version

	SE 3x earthing contact, GST18i3 let for switch and control unit	Length: approx. 220 mm	
336.600			10.2
330.000	Plastic profile, black socket outlets		6 63.
	3 socket outlets with earthing contact, set at 35°		
	Power input: GST18i3 plug, power output: GST18i3 socket		
19", 8x ea	rthing contact, 1 U	Length: approx. 438 mm	
1x potentia	al-free contact incl. relay for external isolation of sockets		
903.002	· Aluminium profile 1U		
	· 8x socket outlets with earthing contact, black		
	· 1x potential-free contact (mini jack) for external isolation of sockets	3	
	(can be linked to control unit)		1.9.
	· 2.0 m H05VV-F 3G 1.50 mm ² black with right-angled earthing com	tact plug	1.0.
	Incl. mounting bracket and screws		0
			-9-9-9-9-9-9-

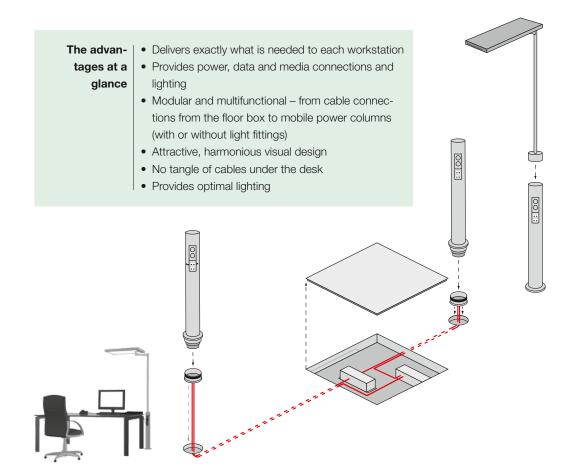


LanLight[®] combines power, network connectivity, connections to media and even lighting in a modular, multifunctional system with a consistently modular construction that lets you adapt and use it flexibly in office environments. The system creates order in providing the various connections required at the workplace, and so increases safety. With its clear design language and high quality materials it fits harmoniously and unobtrusively into its surroundings.

The LanLight[®] base module can accommodate a variety of module inserts. These include floor box inserts for all media – from earthing contact power outlets to HDMI sockets – that are also available fully pre-installed with tested connecting cables.

A special feature is the new type of self contacting used in the basic LanLight[®] module with mobile power column, in which all connections are created by a single plugging action.

LanLight® fits into a hole of only 152 mm diameter. This ease of installation, together with its compact size and the functionality provided by the modular design mean that installations and energy consumers can be fitted only in those positions where they are really needed. Thus LanLight® can be installed to meet the exact requirements and is equally easy to remove. The benefit: during restructuring, individual system components are reused time and again and the usual provision of installations is no longer necessary.



Combined with consolidation points, LanLight® can reach virtually every part of the room to provide power, data, media and light. The optimum cable length is up to 9 metres.



# LanLight®

Modular installation offering flexible supply to office workstations.



### LanLight® offers ...

- a cable outlet
- a floor box with various inserts for a wide range of applications
- plug-in mobile power columns with two power circuits and up to eight data connections with self-contacting interface (mobile column)
- plug-in power columns with two power circuits and up to eight data connections with prepared patch cables
- a plug-in lighting module, one-sided, with lighting head that swivels on two axes
- a plug-in lighting module, double-sided, with swivelling lighting head

Floor outlet

#### Floor box versions



**Connection plate** 924.4000 4 x power Wieland GST15i3 8 x Keystone mount



Earth contact connection plate 924.4002 2 x earth contact 4 x Keystone mount

Media connection plate 924.4003 3 x power Wieland GST15i3 3 x custom media module mount

### Basis for patch versions



Patch column mount 924.1041 Cone for patch column

#### Basis for self-contact system



Connection plate 924.4005 Self-contact system 2 x power for max. 2 x data cable set 924.700

Data cable set 924.700 4 x Terra CAT7 jack, length 6 m



Stage 2

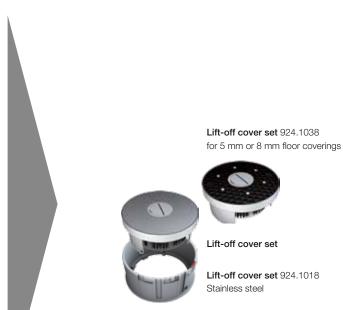
LanLight® is a brand belonging to Bierbrauer Hoff Planungsgesellschaft mbH



Basic unit 924.1016 Modular socket



Stage 1



Twist-off cover 924.1046 for floor coverings, with water protection

#### Patch column 640 mm

924.5002: 2 x earth contact, 4 x CAT6_a jack including 6 m supply cable 924.5003: 4 x earth contact, 8 x CAT6 jack including 6 m supply cable



Mini patch column 924.6000 150 mm, 2 x earth contact



Twist-off cover



Lift-off cover set 924.1040 for 5 mm / 8 mm Floor coverings

Lift-off cover set Self-contact system

Lift-off cover set 924.1039 Stainless steel

#### Mobile column 640 mm

924.5000: 2 x earth contact, 4 x CAT6_a 10 Gbit 924.5001: 4 x earth contact, 8 x CAT6 10 Gbit





You can obtain replacement luminaires from LanLight[®] partners on request

Lamps

### Stage 1: LanLight® basic unit

Art. no. Version



Basic unit for all LanLight [®] components				
Modular so	ocket			
924.1016	· Fits into raised and false floors			
	· Fixes in round cut-out with diameter 152 (+1) mm			
	· For floor thicknesses of between 25 and 70 mm (for tower variants with floor thickness of at least 35 mm)			
	· Fixed by three clamping claws			
	· Overall height: 97 mm, installation depth: 93 mm, external diameter: 162 mm			

· Die-cast aluminium

### Stage 2: LanLight® inserts

Art. no. Ve	ersion
-------------	--------

Connectio	n plate for fitting in LanLight [®] set of lift covers
924.4001	$\cdot$ To connect up to 4 Wieland GST15i3 sockets (power) and 8 data jacks (Keystone)
	Rear strain relief for power connections
	Disengagement aid for Wieland GST15i3 plugs
	· 4 x Wieland GST15i3 sockets, fitted,
	incl. 0.2 m H05VV-F3G 2.5 mm ² power cable to GST18i3 plug
	· To connect up to 8 data jacks (Keystone)
	Rear strain relief for power connections
	· Coded connecting points (data 1-8, power A-D)
	· Diameter: 114.8 mm

#### Connection plate for fitting in LanLight[®] set of lift covers

924.4000 · To connect up to 4 Wieland GST15i3 sockets (power) and 8 data jacks (Keystone)

- Rear strain relief for power connections
  - Disengagement aid for Wieland GST15i3 plugs
  - Coded connecting points (data 1-8, power A-D)
  - · 4 x Wieland GST15i3 sockets
  - · To connect up to 8 data jacks (Keystone)
  - · Diameter: 114.8 mm

contact unit 4P/2S with breakout cable and GST18i3 plug
on plate for fitting in LanLight [®] set of lift covers
To connect up to 4 data jacks (Keystone)
Rear strain relief for power connections integrated in housing
· Coded connecting points (data 1-4, power A-B)
<ul> <li>Incl. 2 x 0.2 m H05VV-F3G 2.5 mm² power cable to GST18i3 plug</li> </ul>
· Diameter: 114.8 mm
I
tact unit for 4P/2S connection plate for mains supply by client
on plate for fitting in LanLight [®] set of lift covers
· To connect up to two phases to the earthing contact socket outlets
· To connect up to 4 data jacks (Keystone)
· Rear strain relief for power connections integrated in housing
· Coded connecting points (data 1-4, power A-B)
· Diameter: 114.8 mm

Art. no.	Version	
Connection	n plate for 3 x custom modules and 3 x power with breakout cable and GST18i3 plug	CUSTOM
Connection	ı plate for fitting in the LanLight [®] cover guide	
924.4004	Accepts up to 3 Bachmann custom modules	1.
	$\cdot$ 3 x Wieland GST15i3 sockets, fitted,	
	incl. 0.2 m H05VV-F3G 2.5 mm ² power cable to GST18i3 plug	
	Rear strain relief for power connections	
	Disengagement aid for Wieland GST15i3 plugs	
	Coded connecting points (data 1-3, power A-C)	
	· Diameter: 114.8 mm	
Media con	nection plate 3 x custom module and 3 x power for mains connection by client	СИЅТОМ
Connection	plate for fitting in LanLight [®] set of lift covers	
924.4003	$\cdot$ For connecting up to 3 Wieland GST15i3 sockets (power)	12
	and 3 Bachmann custom modules	all of the A
	· Rear strain relief for power connections	
	· 3 x Wieland GST15i3 sockets	
	Disengagement aid for Wieland GST15i3 plugs	
	· Coded connecting points (data 1-3, power A-C)	
	· Diameter: 114.8 mm	
Self-contac	ct 10 Gbit 4P/2S with breakout cable and GST18i3 plug	
Connection	plate to fit in the modular installation box	
924.4006*	· Base unit to accept the self-contacting power column 924.5000 or 924.5001	the second
	Prepared to accept 1-2 data cable sets 924.700	
	<ul> <li>Coded connecting points (data 1-8, power A-B)</li> </ul>	
	· For 924.1041	- Carrow
	$\cdot$ 2 x Wieland GST15i3 sockets, fitted,	
	incl. 0.2 m H05VV-F3G 2.5 mm ² power cable to GST18i3 plug	0
	· Diameter: 114.8 mm	
		_
	f-contact for mains connection by client	
	plate to fit in the modular installation box	
924.4005*	Base unit to accept the self-contacting power column 924.5000 or 924.5001	6
	Prepared to accept 1-2 data cable sets 924.700	
	· Coded connecting points (data 1-8, power A-B)	
	· For 924.1041	
	· 2 x Wieland GST15i3 sockets	
	Diameter: 114.8 mm	the second second
Doto eable	oot	_
Data cable For self-co	set ntact connection plates 924.4005 and 924.4006	
924.700*	$\cdot$ 4 x Tyco Electronics CAT7 (Terra) jacks to Tyco Electronics CAT6a plug	AC.
	· Column, 2-sided with 8 ports: Requires 2 x data cable set 924.700	
	Column, 1-sided with 4 ports: Requires 1 x data cable set 924.700	State of the second second
	Cable length 6 m each	ALL ALL ALL
	• Prepared as a cable bundle	
I		

#### Cone as tower holder Cone as column holder

924.1041 · Used to directly mount the LanLight® columns · For 924.5002, 924.5003 and 924.6000



Art. no.



Lift-off cap set with stainless steel inlay					
Lift-off cap	set to fit in the modular installation box				
924.1018	$\cdot$ Two positions: open during use / closed when not in use				
	<ul> <li>With catch mechanism when open</li> </ul>				

- $\cdot$  With dust protection as cable bushing
- $\cdot$  With labelling card for connections
- $\cdot$  With stainless steel inlay
- · Inlay diameter: inner 49 mm, outer 142 mm
- · Lift-off cap diameter 146.4 mm, cap guide diameter 128.8 mm



Lift-off	cap	set	5	mm	1	8	mm

Lift-off cap variants

Version

Lift-off cap set to fit in the modular installation box

- 924.1038 · Two positions: open during use / closed when not in use
  - $\cdot$  With catch mechanism when open
  - · With dust protection as cable bushing
  - With labelling card for connections
  - · For gluing dry maintained surfaces
  - 5 mm or 8 mm thick (e.g. carpet, laminate)
  - Inlay diameter: inner 49 mm, outer 142 mm, lining depth 5 mm or 8 mm
  - · Lift-off cap diameter 146.4 mm, cap guide diameter 128.8 mm
  - Lift on cap diameter 140.4 mm, cap guide diameter 120.0 mi



#### Lift-off cap set, self-contacting, with stainless steel inlay Lift-off cap set to fit in the self-contacting cone

- 924.1039* · Two positions: open during use / closed when not in use
  - With catch mechanism when open
  - · With labelling card for connections
  - · With stainless steel inlay
  - · Inlay diameter: inner 49 mm, outer 142 mm, depth 5 mm or 8 mm
  - · Lift-off cap diameter 146.4 mm, cap guide diameter 128.8 mm



.ift-	-off	cap set	t, sel	f-cor	ntacting,	5 mi	m / 8 n	nm

Lift-off cap set to fit in the self-contacting cone

- 924.1040* · Two positions: open during use / closed when not in use
  - $\cdot$  With catch mechanism when open
  - $\cdot$  With labelling card for connections
  - $\cdot$  For gluing dry maintained surfaces
  - 5 mm or 8 mm thick (e.g. carpet, laminate)
  - · Inlay diameter: inner 49 mm, outer 142 mm, lining depth 5 mm or 8 mm
  - · Lift-off cap diameter 146.4 mm, cap guide diameter 128.8 mm



#### Twist-off cover for 12 mm inlay

Twist-off cover to screw onto cone to hold column

924.1046 · Cover to close modular installation box with cone (924.1016, 924.1041)

- Water protected
- · For inlay (e.g. stone/tiles) with approx. 12 mm thickness
- · Incl. mounting wrench and shucks
- · Inlay diameter: inner 139 mm

### Stage 3: LanLight® extension units

#### Art. no. Version

Self-contac	Self-contacting column, 10 Gbit 4P/2S, one-sided					
Column, 10	Obit, for 1-2 workstations					
924.5000*	$\cdot$ For simply plugging into and unplugging from LanLight® cone holder (924.1041)					
	$\cdot$ 2 earthing contact socket outlets (2 phase) and 4 Tyco Cat 6a jacks					
	· Coded connecting points (data 1-4, power A-B)					
	· Fully pre-wired, incl. 4 x Tyco Terra Cat 7 plug for self contacting					
	· Socket outlets: 2-pole with earthing contact, 16A/3680W, AC250V, IP20, black					
	· Column can be expanded by inserting a LanLight® system lamp					
	· Height 640 mm, diameter 95 mm					
1						

Column, self-contacting, 10 Gbit 8P/4S, two-sided
Column 10 Ghit for 3-4 workstations

924.5001*

- · For simply plugging into and unplugging from LanLight® cone holder (924.1041)
  - · 4 earthing contact socket outlets (2 phase) and 8 Tyco Cat 6a jacks
  - · Coded connecting points (data 1-8, power A-D)
  - · Fully pre-wired, incl. 8 x Tyco Terra Cat 7 plug for self contacting
  - · Socket outlets: 2-pole with earthing contact, 16A/3680W, AC250V, IP20, black
  - · Column can be expanded by inserting a LanLight® system lamp
  - · Height 640 mm, diameter 95 mm

#### 4P/2S patch column, one-sided Column for 1-2 workstations

924.5002 · Simple mounting on the LanLight® conical holder (924.1041)

- · 2 earthing contact socket outlets (2 phase) and 4 CAT6a jacks (Keystone)
  - · Coded connecting points (data 1-4, power A-B)
  - $\cdot$  2 x 6 m H05VV-F3G 2.5 mm² power cable to Wieland GST18i3 plug
  - · 4 x 6 m data cables, CAT6a jack to CAT6a plug
  - · Socket outlets: 2-pole with earthing contact, 16A/3680W, AC250V, IP20, black
  - · Column can be expanded by inserting a LanLight® system lamp
  - · Column materials: Extruded aluminium, powder-coated RAL 9006
  - · Height 640 mm, diameter 95 mm

#### Patch column 8P/4S two-sided

#### Column for 3-4 workstations

- 924.5003 · Simple mounting on the LanLight® conical holder (924.1041)
  - · 4 earthing contact socket outlets (2 phase) and 8 CAT6a jacks (Keystone)
  - · Coded connecting points (data 1-8, power A-D)
  - · 4 x 6 m H05VV-F3G 2.5 mm² power cable to Wieland GST18i3 plug
  - · 8 x 6 m data cables, CAT6a jack to CAT6a plug
  - · Socket outlets: 2-pole with earthing contact, 16A/3680W, AC250V, IP20, black
  - · Column can be expanded by inserting a LanLight® system lamp
  - · Height 640 mm, diameter 95 mm

#### Mini patch column 2S Mini column

924,6000 · Mini patch column, simple mounting on the

- LanLight[®] cone holder (924.1041)
  - · 2 socket outlets with earthing contact (2 phases)
  - · Coded connecting points (power A-B)
  - · 30 mm surge water protection
  - · 2 x 0.2 m breakout cable H05W-F3G 2.5 mm² and GST18i3 plug incl. GST T-piece
  - $\cdot$  Socket outlets: 2-pole with earthing contact, 16A/3680W, AC250V, IP20, black
  - · Height 150 mm, diameter 95 mm



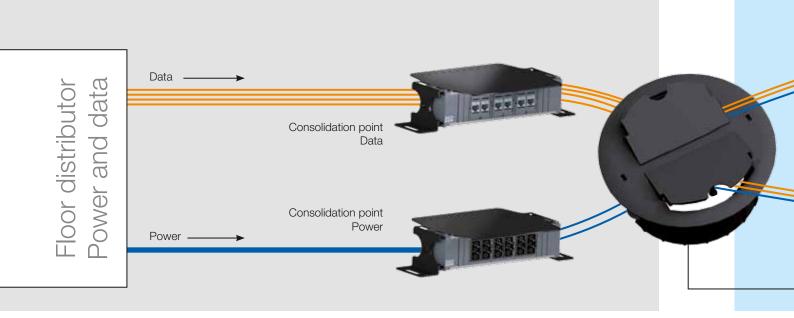












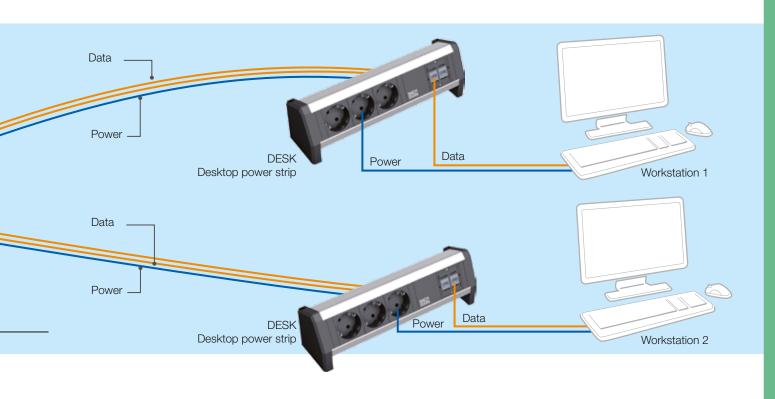
## **Consolidation point** Installation solutions from a single supplier.

Bachmann's new system for under-floor distribution and installation, based on the MUTO (multi-user terminal outlet) concept, offers a coherent and simple installation solution that brings power and data to the desktop.

The consolidation points for power and data are linked to the floor distributor in the conventional way. Floor outlets and desktop power strips from the Bachmann Facility range complete the installation kit. From the consolidation point the floor outlet allows power and data to be conveyed with ease to the workstation. This dispenses with complicated and inflexible installations such as traditional floor box systems.

Thanks to the "open-office cabling", CP and MUTO concepts the network installation is flexible, futureproof and at the same time cost-optimised. The combination of power and data connections can be found in various Bachmann Facility systems. They thus offer a user-centred unit providing all necessary connections.

In the complete Bachmann catalogue you can also find various desktop power strips for mounting on top of or fitting into office workstation desks. All versions can be configured as required and supplied ready for use.



CP mounting	Robust steel plate mounting for CPs	
	<ul> <li>Mountings with secure, tool-free clip-in and release mechanism</li> </ul>	
	<ul> <li>Anchors firmly on the floor with integrated screw-on brackets</li> </ul>	
	Mountings with extra step protection of approx. 200 kg incl. CP unit	
	• Raised position of CP units for greater protection in case of minor ingress of water	

CP power	Power CP is fully wired and electrically tested at the factory	
	Power connections with connector systems by Wieland (Gesis GST); Wago	
	(Winsta) versions available on request	
	Other connector systems can be fitted if required	4
	Time-optimised on-site installation	
	Future-proof thanks to flexible structure	

CP data	<ul> <li>CP data – flexible and modular based on custom modules</li> <li>Various manufacturers' systems can be integrated</li> <li>Easy to install and future-proof thanks to modular structure</li> <li>Should a change be necessary, only the data connector unit is changed</li> <li>Mounting and unit remain unchanged</li> </ul>	
	<ul> <li>Mounting and unit remain unchanged</li> <li>Additional strain relief for data connection can be provided with cable ties</li> </ul>	-

CP power reconnectable

#### Consolidation point units for power

- · Fully wired and electrically tested
- · With Wieland GST18i3 plug

#### Art. no. Version

Consolida	tion point units for power
Short	
919.2000	· 6-way GST18i3 socket, black, 1-phase
	· Power input: GST18i3
919.2001	· 2 x 3-way GST18i3 socket, 2-phase
	Sockets in black and red
	· Power input: GST18i3
Consolida	tion point units for power
Long	
919.2002	· 12-way GST18i3 socket, black, 1-phase
	Power input: GST18i3
919.2003	· 2 x 6-way GST18i3 socket, 2-phase
	Sockets in black and red
	Power input: GST18i3
919.2004	· 3 x 4-way GST18i3 socket, 3-phase
	· Sockets in black, red and grey
	· Power input: 3x GST18i3 socket
919.2005	· 3 x 4-way GST18i3 socket, 3-phase
	· Sockets in red, black and grey

#### Consolidation point units for data

- · Without power, to integrate with Bachmann custom modules
- · Anodised aluminium profile

#### Art. no. Version

#### CUSTOM Consolidation point units for data



1 Statement

R. S. S. S. S. S.

912.000	· 3 x custom modules, empty
	· Short: 217 mm
912.001	· 6 x custom modules, empty
	· Long: 356 mm

#### Consolidation point mounting

- · Colour black (RAL 9005)
- · Mounting in steel plate
  - Art. no. Version

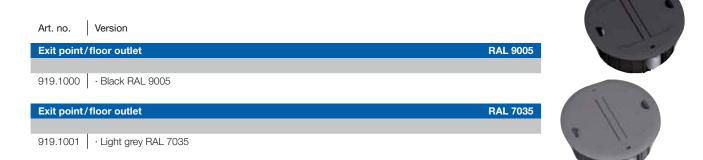


5 x 65 mm
E

#### Floor outlet for dry-maintained floors

Outlet for dry-maintained floors (raised and false floors) from 24 mm thickness for the cable outlet from the subfloor (consolidation point) to the power strip on the desk. The outlet features a very simple universal fixing. With one rotation of each of the two eccentric Allen bolts in the outer ring the outlet is anchored firmly into the floor, yet can easily be removed again if required. 2 flaps, each of which can be opened to a position independent of the other, allow cabling to be routed out from the floor. The flaps can be snap-fastened in open positions, thus preventing cables becoming bent and possibly damaged. If required the flaps can be rotated through 130° with the inner ring. Textile-fibre sleeves or cable management systems from the Bachmann range can be docked to the outlet flaps. If the outlet is no longer used, the flaps can be lowered and used as a blank cover that can be stepped on.

- $\cdot$  Exit point/floor outlet for power and data cables
- · Fits in raised floors with thicknesses from 24 mm
- · Hole diameter 112 mm
- Simple fixing mechanism with Allen bolts
- · 2 flaps, rotatable though approx. 130°, for cable outlet
- · Material: polyamide (halogen free)



Length

CAT5e patch cable plug/plug

1.0 m

3.0 m

5.0 m

CAT6 patch cable plug / plug

3.0 m

5.0 m

CAT6a patch cable plug / plug

1.0 m

3.0 m

Length

Art. no.

Art. no.

918.003

940.052

940.053

940.040

940.041

918.006

918.007

#### Data cables -> Transfer of data within various categories

#### (see glossary) Used for network and IP telephone services

· CAT5e cable, shielded, colour grey

and protective tongue for interlock

· CAT6 cable, shielded, colour grey

 $\cdot$  CAT7 cable, shielded, colour black

· Conforms to IEC 61156-6

· Conforms to ISO / IEC 11801 and EN 50173

 $\cdot$  Ends 1 and 2: RJ45 plug with kink protection nozzle

· Suitable for e.g. CAT5e socket / socket 940.057

· Conforms to ISO / IEC 11801 and EN 50173

 $\cdot$  Suitable for e.g. CAT6 socket / socket 940.044

Version

CA MA	







918.008	5.0 m	<ul> <li>Ends 1 and 2: RJ45 Hirose TM12 CAT6a plug with kink protection nozzle and unlocking tongue</li> <li>Suitable for e.g. CAT6 socket / socket 940.044</li> </ul>
CAT6a pat	ch cable plu	Ig
918.033	3.0 m	· CAT7 cable, shielded, colour black
918.034	5.0 m	Conforms to IEC 61156-6
		End 1: RJ45 Hirose TM12 CAT6a plug with kink protection nozzle and unlocking tongue. End 2: CAT6a TKM 10 Gb Keystone socket.
		· Fits into Keystone frames 917.000 / 917.001 / 917.061 / 917.062

· Ends 1 and 2: RJ45 plug with kink protection nozzle and protective tongue for interlock



RJ12 patch cable plug / plug		
940.089	3.0 m	· RJ12 cable, unshielded, colour black
		Conforms to ISO / IEC 11801 and EN 50173
		Ends 1 and 2: RJ12 plug with kink protection nozzle
		· Suitable for e.g. RJ12 socket / socket 940.085

#### VGA 15-pole HD with or without 3.5 mm stereo mini jack ->

#### Transmission of analogue image and sound signals

Version



VGA 15-pole HD combi cable with mini audio jack		
918.066	1.0 m	· High quality cable, high flexibility, colour black
918.067	3.0 m	· End 1: 1x 15-pole VGA HD plug, 1x mini jack plug, 3.5 mm
918.068	5.0 m	· End 2: 1x 15-pole VGA HD plug, 1x mini jack plug, 3.5 mm
918.069	10.0 m	<ul> <li>Plug with metal housing and shielding, additional ferrite cores are not needed</li> <li>can be used for custom modules with VGA + Mini stereo jack socket / socket (e.g. 917.045 etc.)</li> </ul>



VGA 15-pc	/GA 15-pole HD			
918.009	1.0 m	High quality cable, flexible, colour black		
940.047	3.0 m	· End 1: 1x 15-pole VGA HD plug		
940.048	5.0 m	· End 2: 1x 15-pole VGA HD plug		
		· Can be used with custom modules with VGA socket / socket (e.g. 917.011)		

#### Media VGA 15-pole HD combi cable with mini audio jack

#### (3.5 mm stereo) and RJ12 (signal control) for media switch

Art. no.	Length	Version	
VGA 15-p	ole HD comi	pi cable with mini audio jack and signal control	
903.107	1.0 m	· High quality cable, high flexibility, colour black	
903.108	3.0 m	· End 1: 1x 15-pole VGA HD plug, 1x mini jack plug 3.5 mm and RJ12 plug	
903.109	5.0 m	• End 1: 1x 15-pole VGA HD plug, 1x mini jack plug 3.5 mm and RJ12 plug	94 🖷 🖷
903.110	10.0 m	Plug with metal housing and shielding,	
		additional ferrite cores are not needed	
		· can be used for custom modules with VGA	100
		+ mini stereo jack socket / socket and button (e.g. 917.134)	

#### HDMI connecting cable -> digital transmission of image and sound signals

Art. no.	Length	Version	
918.019	3.0 m	· HDMI cable, colour black	
918.020	5.0 m	· End 1: 1x HDMI plug, 19-pole	C. C.
		· End 2: 1x HDMI plug, 19-pole	
		· Can be used with custom modules with HDMI socket / socket (e.g. 918.040)	

#### DVI-I connecting cable -> digital transmission of image signals

#### (compatible with DVI-A and DVI-D connectors)

Art. no.	Length	Version
DVI-I conn	ecting cabl	e
918.017	3.0 m	· DVI cable, colour black
918.018	5.0 m	· End 1: 1x DVI plug
		· End 2: 1x DVI plug
		· Can be used with custom modules with DVI-I socket / socket (e.g. 917.021 / 917.078)

#### Cinch video + stereo connecting cable -> transmission of analogue image and sound signals

Art. no.	Art. no.   Length   Version		
Cinch vide	o + stereo d	connecting cable	
918.015	3.0 m	· Cinch connecting cable set, colour black	
918.016	5.0 m	$\cdot$ End 1: Cinch plug (red + white + yellow)	
		· End 2: Cinch plug (red + white + yellow)	
		· Can be used with custom modules with Cinch socket / socket (e.g. 917.026)	

#### S-Video (Hosiden) connecting cable -> transmission of analogue image signals

Art. no.	Length	Version	
940.104	3.0 m	<ul> <li>S-Video (Hosiden) connecting cable, colour black</li> <li>End 1: S-Video plug</li> <li>End 2: S-Video plug</li> <li>Can be used with custom modules with S-Video socket /</li></ul>	9
940.105	5.0 m	socket (e.g. 917.028 / 917.035)	

#### 3.5 mm mini audio cable -> transmission of sound signals



Art. no.	Length	Version
3.5 mm mi	ni jack con	necting cable for audio signals
918.010	1.5 m	· 3.5 mm mini jack (stereo) connecting cable, colour black
918.011	2.5 m	· End 1: 3.5 mm mini stereo jack plug
918.012	5.0 m	End 2: 3.5 mm mini stereo jack plug     can be used for custom modules with stereo jack     socket / socket (e.g. 917.045 / 917.157)

#### Cinch stereo connecting cable -> transmission of sound signals



Length	Version		
Cinch stereo connecting cable for audio signals			
3.0 m	· Cinch (stereo) connecting cable, colour black		
5.0 m	End 1: Cinch stereo plug (red + white)		
	End 2: Cinch stereo plug (red + white)		
	· can be used for custom modules with Cinch		
	socket / socket (e.g. 917.027 / 917.028 / 917.022 / 917.023)		
	eo connecti 3.0 m		

#### XLR connecting cable -> transmission of sound signals (e.g. from microphone)



Art. no.	Length	Version	
XLR 3-pole	e connectin	g cable for audio signals	
918.013	3.0 m	· XLR 3-pole connecting cable, colour black	
918.014	5.0 m	0 m · End 1: XLR 3-pole plug with interlock	
		• End 2: XLR 3-pole socket with interlock	
		· Can be used with custom modules with XLR connector (e.g. 917.024)	

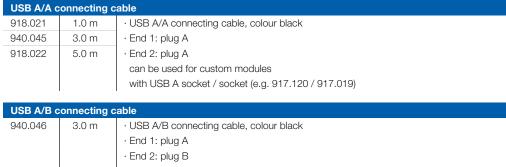
#### USB connecting cable -> transmission of data

Version

Length

Art. no.





#### · Can be used with custom modules with USB B socket / socket (e.g. 917.018)

#### FireWire connecting cable -> transmission of data



Art. no.	Length	Version
FireWire c	onnecting c	able
918.024	4.5 m	· FireWire connecting cable, colour black
		· End 1: FireWire 6-pole plug
		· End 2: FireWire 6-pole plug
		$\cdot$ Can be used with custom modules with FireWire socket / socket (e.g. 917.037)

#### Power supply cables for Bachmann facility systems

Cables fitted with Wieland GST18 plug-in connectors are available to connect facility products to the mains power supply. The advantages of these cables and their connectors, which are used all over the world, are flexibility in terms of length, the possibility of exchanging them should length requirements change, and availability for a variety of countries. Even extending the power supply to other power strips presents no problem and can usually be done without tools.

Art. no. Length Version Device supply cable, GST18 earthing contact Black 375.000 1.5 m · Cable: H05VV-F 3G 1.5 mm² 375.075 2.0 m · End 1: right angle plug with earthing contact 375.003 3.0 m · End 2: Wieland GST18i3 socket 375.005 4.0 m 375.007 5.0 m 375.039 10.0 m

Halogen-fre	ee cable	
375.044	2.0 m	· Cable: S05VV-F 3G 1.5 mm ²
375.045	3.0 m	End 1: right angle plug with earthing contact
375.046	5.0 m	· End 2: Wieland GST18i3 socket

#### Device supply cable with additional earth connection

- · Pre-assembled power supply cables with integrated earth connection
- $\cdot$  Earthing of the power strip is independent of the installation
- · Ideal in combination with STEP power strips (see from page 48)
- $\cdot$  Table-mounted frames can be earthed independently of the power strip fitted in them

#### Art. no. Length Version

Device su	pply cable,	GST18 earthing contact		black	
With extra	earth conne	ction			
375.115	2.0 m	· Cable: H05VV-F 3G 1.5 mm ²			
375.116	3.0 m	· End 1: right angle plug with earthing contact			
375.117	5.0 m	· End 2: Wieland GST18i3 socket with 0.3 m			
		1.5 mm ² green/yellow with M6 ring termination	1		
Device su	pply cable,	GST18, plug CH / Switzerland		black	
375.016	1.5 m	· Cable: H05VV-F 3G 1.0 mm ²			<b>F</b>
375.017	3.0 m	• End 1: CH / Switzerland plug			
375.018	5.0 m	· End 2: Wieland GST18i3 socket			
Device su	pply cable,	GST18, plug UK 13A		black	
375.068	2.0 m	· Cable: H05VV-F 3G 1.5 mm ²			
375.069	3.0 m	· End 1: UK 13A plug			
375.070	4.0 m	· End 2: Wieland GST18i3 socket			
Device ex	tension cab	le, GST18/GST18		black	
375.050	0.3 m	· Cable: H05VV-F 3G 1.5 mm ²			
375.053	1.0 m	· End 1: Wieland GST18i3 plug			
375.038	2.0 m	· End 2: Wieland GST18i3 socket			
375.055	3.0 m				
Halogen-fi	ee cable				
375.080	0.3 m	· Cable: S05Z1Z1-F3G 1.5 mm ²			
375.081	1.0 m	• End 1: Wieland GST18i3 plug			
375.082	2.0 m	• End 2: Wieland GST18i3 socket			
375.083	3.0 m				
Device ex	tension cab	le, GST15/GST18		black	
375.127	1.5 m	· Cable: H05VV-F 3G 1.5 mm ²			-
375.128	3.0 m	• End 1: Wieland GST15i3 plug	8		
375.129	5.0 m	· End 2: Wieland GST18i3 socket	LanLight		

### 💎 wieland

🐳 wieland

Cables with ST18 connector system (older system, cannot be plugged in under load)



Art. no.	Length	Version	
Device sup	oply cable, ST18 earthing co	ntact	Black
375.004	1.5 m	· Cable: H05VV-F 3G 1.5 mm ²	
375.079	2.0 m	· End 1: right angle plug with earthing contact	
375.040	3.0 m	· End 2: Wieland ST18/3 socket	
375.076	5.0 m		
Device ext	ension cable, ST18/ST18		Black
375.071	0.5 m	· Cable: H05VV-F 3G 1.5 mm ²	
375.072	1.0 m	· End 1: Wieland ST18/3 plug	

· End 2: Wieland ST18/3 socket

#### Connectors / distributors

1.5 m

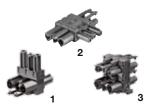
3.0 m

375.105 1x input, 3x output (3)

375.073

375.064





Art. no.	Version	Version		
Coupler		Black		
No interloc	k			
375.500	GST/GST	Allows each lighting of a gritup CTED power string with the same or		
375.515	GST/ST	<ul> <li>Allows easy linking of e.g. two STEP power strips with the same or different plugging systems</li> </ul>		
375.516	ST/GST	· 1x input (plug section) and 1x output (socket section)		
Multiplier, GST18				
For power distribution				
375.101	1x input, 2x output (1)	· Input: 3-pole plug		
375.102	1x input, 2x output (2)	Outlet: 3-pole socket		

375.106 1x input, 1+6x output · Input: 1 x plug, 5-pole · Outlet: 1 x socket, 5-pole:	Through-wired for 3-phase power, 5 and 3-pole			
· 6 x 3-pole socket per outer cable	375.106	1x input, 1+6x output	· Outlet: 1 x socket, 5-pole;	

#### Interlocks



Art. no.	Version	Version		
Interlock for appliance plugs and couplings				
Compliant with VDE 0628				
375.518	Wieland 05.587.3156.1	· Snaps onto the relevant plugs and couplings		
Locking latch (interlock)				
Compliant with VDE 0628				
375.501	Black	· For snap-in fitted plug and coupling		

#### Accessories

Wieland 05.584.0153.0

Art. no.	Version	Version
End cap		
375.503	Black Wieland 05.561.3653.1	Inserts into the snap-in fitted plug and coupling



#### Fitting accessories

Art. no.	Version	Version
Appliance	e plug with screw terminal	l, GST18
375.504	Black	· Ready to fit, with strain relief
	Wieland 92.932.3053.1	· For cross section 0.75 – 2.5 mm ² , solid and flexible wires can be
375.517	White	connected without end sleeves
	Wieland 92.932.3052.0	· For cable diameters 6.5 – 10.5 mm
		(H05VV, NYM)
		(10377,1110)
		Outer sheath stripped length 31 mm; insulation stripped length: 7 mm
Appliance	e plug with spring-loaded	• Outer sheath stripped length 31 mm; insulation stripped length: 7 mm
Appliance Lockable	e plug with spring-loaded	• Outer sheath stripped length 31 mm; insulation stripped length: 7 mm
	e plug with spring-loaded	• Outer sheath stripped length 31 mm; insulation stripped length: 7 mm
Lockable		Outer sheath stripped length 31 mm; insulation stripped length: 7 mm terminal, GST18i3
Lockable	Bright red	Outer sheath stripped length 31 mm; insulation stripped length: 7 mm terminal, GST18i3     Ready to fit, with strain relief
Lockable 940.073	Bright red Wieland 92.934.0553.0	Outer sheath stripped length 31 mm; insulation stripped length: 7 mm terminal, GST18i3     Ready to fit, with strain relief     For rigid cables 1.5 – 2.5 mm²,
Lockable 940.073	Bright red Wieland 92.934.0553.0 Pebble grey	<ul> <li>Outer sheath stripped length 31 mm; insulation stripped length: 7 mm</li> <li>terminal, GST18i3</li> <li>Ready to fit, with strain relief</li> <li>For rigid cables 1.5 – 2.5 mm², flexible cables 1.5 mm² with end sleeves</li> </ul>
Lockable 940.073	Bright red Wieland 92.934.0553.0 Pebble grey	<ul> <li>Outer sheath stripped length 31 mm; insulation stripped length: 7 mm</li> <li>terminal, GST18i3</li> <li>Ready to fit, with strain relief</li> <li>For rigid cables 1.5 – 2.5 mm², flexible cables 1.5 mm² with end sleeves</li> <li>2 connections per pole, not mounted,</li> </ul>

#### Appliance coupling with screw terminal, GST18i3

375.505	Black	· Ready to fit, with strain relief
	Wieland 92.931.3053.1	$\cdot$ For cross section 0.75 – 2.5 mm ² , solid and flexible wires can be
375.514	White	connected without end sleeves
	Wieland 92.931.3053.0	<ul> <li>For cable diameters 6.5 – 10.5 mm</li> </ul>
		(H05VV, NYM)
		· Outer sheath stripped length 31 mm; insulation stripped length: 7 mm

Appliance coupling with spring-loaded terminal, GST18i3		
Lockable		
940.070	Bright red	· Ready to fit, with strain relief
	Wieland 92.933.0553.0	<ul> <li>For rigid cables 1.5 – 2.5 mm²,</li> </ul>
940.071	Pebble grey	flexible cables 1.5 mm ² with end sleeves
	Wieland 92.933.0153.0	· 2 connections per pole, not mounted,
		for H05VV, NYM cables (diameter 7.8 – 10.3 mm)
		· Outer sheath stripping length 45 mm,
		Insulation stripped length for 1.5 mm ² and 2.5 mm ² : 9 mm

Snap-in fitted plug, spring loaded, GST18					
With interlo	With interlock				
375.506	Black Wieland 92.032.9658.1	<ul> <li>For material thickness 0.5 – 1.5 mm snaps into housing cut-out</li> </ul>			
375.519	White Wieland 92.032.9658.0	<ul> <li>Flexible cable 0.5 – 1.5 mm² with end sleeve</li> <li>Rigid cable 0.5 – 2.5 mm²</li> </ul>			
375.520	Bright red Wieland 92.032.8558.0	<ul> <li>Stripped length 0.5 – 1.5 mm²: 8 mm, stripped length 2.5 mm²: 9 mm</li> </ul>			
375.521	Pebble grey Wieland 92.032.9758.0				

#### Snap-in fitted coupling, spring loaded, GST18i3 With interlock 375.507 · For material thickness 0.5 – 1.5 mm snaps into Black Wieland 92.031.9658.1 housing cut-out 375.522 · Flexible cable 0.5 – 1.5 mm² with end sleeve White Wieland 92.031.9658.0 · Rigid cable 0.5 – 2.5 mm² 375.523 Bright red · Stripped length 0.5 – 1.5 mm²: 8 mm, Wieland 92.031.8558.0 Stripped length 2.5 mm²: 9 mm 375.524 Pebble grey

Wieland 92.031.9758.0





💎 wieland

# -



## **CABLE MANAGEMENT** Perfect installation solutions.

Bachmann banishes unwieldy cables from workstations. The KABELSCHLANGE[®] cable management system optimises cable routes in the workplace between the desk, floor box, wall duct and various devices.

Bachmann can offer the best cable management system for every situation. Whether the cables run along the floor or are routed from the floor to the desk, the systems are mutually compatible. A well-thought-out and integrated cable management concept is available to you.

The various systems are available finished in black and silver as standard, but we can provide custom colours on request.

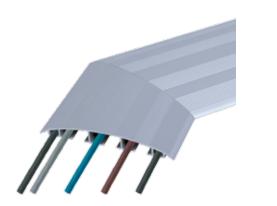
#### Flexible cable management system

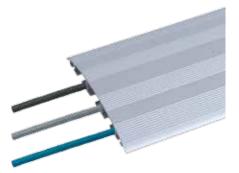
- $\cdot$  The chain links are safe to step on and break-proof, and can be moved about relative to one another.
- $\cdot$  2 connector shoulders allow forces to be transmitted (including torque and shear forces)
- $\cdot$  Special geometry allows individual cables to exit through the sides without risk of crushing

Art. no.	Colour	Version	
KABELSC	HLANGE [®] Class	sic	
930.030	Black	· For horizontal and vertical cable routing	Contraction of the local division of the loc
930.031	Silver	· 3-chamber system to separate light current,	Section 200
		data and power lines	and the still work
		· 46 chain links, W x H: approx. 54 x 23 mm	Contraction of the second
		· Length (separated): approx. 100 cm	1055555444
		· Length (pushed together): approx. 72 cm	
	HLANGE [®] Cube		
930.058	Black	For horizontal and vertical cable routing	
930.059	Silver	2-chamber system to separate light current,	
		data and power lines · 34 chain links, W x H: approx. 55 x 25 mm	
		· Length (separated): approx. 100 cm	Series Sour
		Length (pushed together): approx. 69 cm	N.C.P.
KABELSC	HLANGE [®] Pro		
930.032	Black	· For horizontal cable routing	(Rec.
930.033	Silver	$\cdot$ Increased resistance to being stepped on even in high foot traffic areas such as passages	and the second s
		$\cdot$ 5 chain links can withstand short-term loads of up to 120 kg	and the
		$\cdot$ 2-chamber system to separate data and power cables	STATES
		· Can also be connected directly to KABELSCHLANGE® Classic	Contraction
		· 34 chain links, W x H: approx. 90 x 24 mm	S S S THE SHOW
		· Length (separated): approx. 100 cm	
		· Length (pushed together): approx. 69 cm	
	HLANGE [®] Prem		
930.049	Black	For vertical cable routing to high-quality office furniture	
930.050	Silver	Looks-orientated premium set:	Calling Call
		16 chain links, W x H: approx. 35 x 70 mm 1x metal base plate (in appropriate colour)	
		1x end piece for fixing to desk and screws	
		• The chain links can be pushed together completely to form a self-locking,	Report of the second se
		elliptical cable duct	
		· 2-chamber system to separate data and power cables	
		· Length incl. base plate and desk fixing approx. 78 cm	E
		· Length without accessories approx. 75 cm	00
		· Length (pushed together): approx. 59 cm per set	
KABELSC	HLANGE [®] Easy	-Clip	M
	1	lassic, Cube and Pro	D Y T PL
930.037	Black	Clip for attaching chain flexibly and without tools to power columns	
930.038	Silver	(e.g. Power Tower)	HtoTat
		Plug in the clip at the end of the KABELSCHLANGE®     and attach the wire bracket to the terminals on the power column	
KADELCO			- Hann T
930.036	For KABEL-	-Clip for floor box  • Patented adaptor for docking the KABELSCHLANGE®	<b>A</b>
	SCHLANGE®	Cable management systems to all common floor outlets	
	Classic	· Clip with elongated holes and fixing holes,	
930.054	For KABEL-	can be used for horizontal or vertical fixing to furniture	-
	SCHLANGE®	or trunking by removing components that are not required	
	Pro and Cube	· Clip, pushes onto bottom of the last chain link	and the second s
		· Clip yields flexibly in the event of impact (e.g. when floor is being cleaned),	11111 Martin

	Art. no.	Colour	Version
	KABELSC	HLANGE [®] Easy-Fix	90S Dimensions (L x W x H) 48 x 20 x 20 mm
· /	For KABEI	SCHLANGE® Class	ic, Cube and Pro
	930.055	Black	<ul> <li>Bracket for vertical fixing e.g. to undersides of desk/table tops</li> </ul>
			$\cdot$ D = 1.5 mm; 2 drill holes, diameter = 4 mm. Hole spacing 30 mm
•	KABELSC	HLANGE [®] Easy-Sto	qq
	930.042	Black	<ul> <li>Cable grip to fix cables (to ensure cabling complies with standards) securely and tightly to the fixing point</li> </ul>
			Suitable for horizontal and vertical fixing
			<ul> <li>Individual component or combined with any Easy-Line[®] cabling rail</li> </ul>
			· With connector clips to connect to system independently of direction
	KABELSC	HLANGE [®] Easy-Lin	e ^e
Company and a second			ic and Pro curved and straight runs
(Seal)	930.039	Straight	· Ideal for mounting on walls or ceilings
	930.040	90° curved section	· Can also be used for horizontal desk cabling,
		Radius 150 mm	for trunking or for skirting
	930.041	22.5° curved	$\cdot$ 4 Easy-Line© straight line runs are sufficient for one metre
		section	KABELSCHLANGE® Classic
			$\cdot$ Please ensure that an Easy-Stop $@$ cable grip is fitted at all free ends.
	KABELSC	HLANGE [®] cable br	acket set with cable grip
	930.051	Black	· Cable clamp set, screws onto underside of desk/table top
			$\cdot$ Clamp allows further routing of cable under the desk/table top
			· Contents:
ATTAC AN AN			<ul> <li>Cable clamp incl. 2 fixing screws</li> </ul>
			(also for thin desk/table tops)
8			<ul> <li>Cable grip with adjusting screw</li> </ul>
	KABELSC	HLANGE® Easy-Sw	ritch ^e
	For KABEI	_SCHLANGE® Class	ic, Cube and Pro
Alter Contraction	930.034	Black	$\cdot$ The Easy-Switch© distributor turns the KABELSCHLANGE® into a network-
	930.035	Silver	compatible cable management system
			<ul> <li>The Easy-Switch© docks without tools to the KABELSCHLANGE[®] using the adaptor chain links</li> </ul>
			· Note: If using with KABELSCHLANGE® Pro you should also order Classic chain
1			links to link to the distributor
	KABELSC	HLANGE [®] Easy-Sw	ritch ^e
	For KABEI	_SCHLANGE® Class	ic, Cube, Pro and Premium
	930.057	Black	<ul> <li>4-way distributor with 3x 120° horizontal junction sockets for KABELSCHLANGE[®] Classic, Cube and Pro</li> </ul>
			· 1 vertical coupling point for KABELSCHLANGE® Premium
			<ul> <li>Incl. fixing screw and solid base plate (Easy-Floor Premium)</li> </ul>
			Set contains 4 KS Cube coupling links for linking to KABELSCHLANGE® Pro
		HLANGE [®] Easy-Ca	
	930.044	Black	Blank cap for sealing unused connection points
	930.045	Silver	on Easy-Switch®

#### BRIDGE - the cable duct





CABLE BR	IDGE	Dimensions: (W x H) 146 x 9 mm
Cable duct,	straight	
930.060	1.0 m	Anodised aluminium profile, with rippled surface to reduce slipping
930.061	2.0 m	$\cdot$ 3-chamber system allowing power and data cables to be routed separately
		Can be taped (using double-sided tape) or screwed into place     on the floor (see fixing accessories)

CABLE BR	RIDGE		
Bracket for	r cable duct		
930.062	45°	· Bracket in anodised aluminium	
930.063	90°		
			and the second s

CABLE B	RIDGE		
Linking ele	ement for cab	le duct	
930.064	Straight	Link for joining straight cable ducts	the bar bar
		Screws into place with integral Allen bolts	
		· 2 items	

#### CABLE BRIDGE Fixing accessories for cable duct

930.065 Straight

For screwing down cable ducts at the ends
 4 items



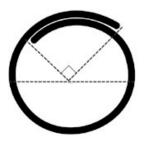


#### Wrap textile-fibre sleeves

Wrap textile-fibre sleeves bundle and protect cables and wires in office and home environments. The elastic braided sheath with its monofilament fibres assures fire and abrasion resistance and is thus also ideal for professional and industrial use.

Wrap textile-fibre sleeves are aesthetically appealing and can also be retrofitted to cable sets without difficulty.

#### Automatic Wrap



Automatic Wrap is a unique, separable, semi-rigid woven solution ideal for areas where simplicity of installation is required. The opening on the side allows numerous applications to be accommodated and can easily be closed again without the need for additional material such as adhesive tape. The PET braid is light and flexible. The edge, which juts out by 25%, provides cover for the cable extensions and connections inside. Automatic Wrap can be routed around narrow edges without opening or becoming warped. Unlike rigid cable ducts, it does not impair the flexibility of the cable harness.

The advan-	• Simple installation with low costs and low labour input
tages at a	More flexible than coiled or wound solutions
glance	• 25% for secure cable bundling
	<ul> <li>Resistant to chemicals and solvents</li> </ul>
	Halogen-free
	Resistant to cuts and abrasions
	Retains its shape within operating temperature range
	-75 °C to +125 °C

Length Art. no. **Automatic Wrap** 

930.900

930.901

Version

· Black

· Black

Dimensions: diameter 2.54 cm = 1 inch

1.0 m

2.0 m







Automatic Wrap			
Dimensions: diameter 5.08 cm = 2 inches			
930.903	1.0 m	·Black	
930.904	2.0 m	·Black	
930.905	3.0 m	·Black	

#### Manual Wrap in colour

Manual Wrap is an exclusive product that offers the ideal solution for numerous applications. Installation of the application is simple with a strong Velcro fastener. The entire length of the run remains accessible after installation, e.g. for adding or removing cables or connections. The stretchable woven braid allows the Manual Wrap to bundle and sheathe cables of various diameters. Manual Wrap can also wrap around applications with non-standard shapes. It can be cut cleanly with a thermal cutting device (optional).

The advan-	
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- tages at a
- Can be stretched over plugs and sockets glance • Halogen-free
  - Resistant to chemicals and solvents

• Strong Velcro fastener for frequent access

• Melting point ~230 °C



#### Art. no. Version Version

Manual W	rap		
Dimension	s: diameter 3	.18 cm = 1 ¼ inch	100
930.906*	1.0 m	·Black	
930.907*	2.0 m	· Black	
930.908*	3.0 m	·Black	





# Bachmann Manufacturing

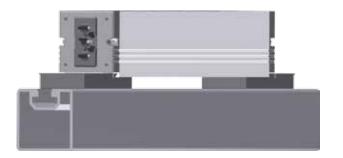
### Efficient power and data distribution for manufacturing

With Bachmann manufacturing systems you can be sure of having access to the best connectors and connections wherever you are in the world. Our systems are configurable with all standard international socket outlets and data connections. Modules can be retrofitted or interchanged quickly and easily. In short, when it comes to energy and data management systems that are fit for the future, Bachmann maximises your options. Our top priority at Bachmann is a collaborative partnership with our customers. This begins with what we refer to as "customised engineering", since providing engineering services for customised solutions is as important for our international development team as continuing to develop the Bachmann range overall. The result is a long list of registered designs and patents for technical innovations and special solutions under the Bachmann brand.



<b>Power strips</b>	
BlueNet power management	Blu <b>≡</b> Net
<b>Feed modules</b>	
Compressed air units	
<b>ESD units</b>	
<b>STEP</b>	
Automatic switch-off units 142	
Tradesman's power strip 143	
<b>Fixings</b>	
<b>DESK</b>	
<b>Custom modules</b>	CUSTOM
<b>Cables</b>	
Lighting	

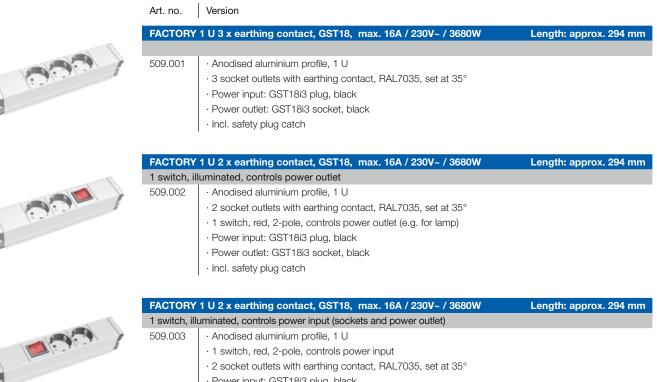
### FACTORY - the professional solution



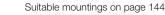
Power strips in aluminium profile, 1 U, width 44.5 mm, ideally suited for mounting on 45 mm T-slot profiles.

- Strip does not protrude over the 45-mm T-slot profile
- Can be mounted on 30, 45 or 60 mm T-slot profiles
- Can be mounted on the upright profiles of various manufacturers
- Easy to fit with specially designed mounts (ESD-capable)
- Mains input and output based on Wieland GST18 connector system
- Strips can be linked to one another using device extension cables (see page 147)
- Power infeed direct to mains input via supply cable (see page 147) or via feed modules (see from page 137)

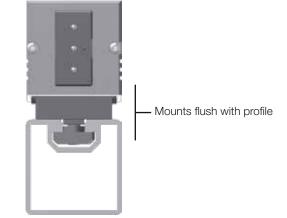




- $\cdot$  2 socket outlets with earthing contact, RAL7035, set at 35°
- · Power input: GST18i3 plug, black
- · Power outlet: GST18i3 socket, black
- · Incl. safety plug catch









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Max. 16A/230V~ 💮

#### Art. no. Versio

Art. no.	Version			
FACTORY	1 U 8 x earthing contact	GST18, max. 16A / 230V~ / 3680W	Length: approx. 866 mm	
2 switches	illuminated			
509.004	$\cdot$ Anodised aluminium pro	file, 1 U		10000000000
	<ul> <li>1 switch, green, 2-pole,</li> </ul>			0000
		rthing contact, RAL7035, set at 35°, with s	pacing between sockets	000
		ontrols only white auxiliary outlet		
	<ul> <li>Power inputs on side of</li> </ul>	•		
	Power input: GST18i3 p	6		
	Power outlet: 2 x GST1	Bi3 socket, black/white		
	Incl. safety plug catch			
FACTORY	1 U 10 x earthing contac	t, GST18, max. 16A / 230V~ / 3680W	Length: approx. 1086 mm	1
	, illuminated			
509.005	<ul> <li>Anodised aluminium pro</li> </ul>	file, 1 U		
	· 1 switch, green, 2-pole,	controls sockets		0.0.08
		arth contact, RAL7035, set at 35°, with spa	acing between sockets	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	· 1 switch, red, 2-pole, co	ontrols power outlets		100
	$\cdot$ Power inputs on side of	profile:		
	• Power input: GST18i3 p	lug, black		
	Power outlet: 2 x GST18	Bi3 socket, black/white		
	$\cdot$ Incl. safety plug catch			
				uminated rocker
	2-pole illuminat rocker switch for			
	power outlet			
		Generous socket spacing		
		of 42.5 mm lets you use		
		various larger mains adap-	1	
For horizor	ntal mounting	tors side by side	A A A A A A A A A A A A A A A A A A A	Loss a
		11 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1		
	10 1000	10 an		Power input GST18i3
- CA	the laws			
	GST18i3 power out peripheral devices	let for		

White power outlet (e.g. for lighting)

### BLUENET - spotting potential and using it

### Blu**≡**Net

Bachmann's BlueNet range creates optimal conditions for efficient power management. It makes power consumption transparent – and thus controllable – with intelligent products that help you to gather current data wherever power is consumed, and thus to spot potential energy savings – and to document and use them.

- Integrated function for measuring current, voltage, power, phase angle, frequency and total energy consumption (BlueNet Metered Plus)
- Measured values are shown on the display
- Modular construction allows configuration of
   PDUs to customers' specifications

Power measurement (kW)	-2.77 kW 230V	Mains voltage (V)
Frequency (Hz)	— 50 Hz (5°	Phase angle
Phase number (P 1, 2, 3)		Current (A)
Total energy consumption (kWh)	/585,9kWh	

	Art. no.	Version	
	FACTORY	1 U Metered BlueNet, GST18, max. 16A / 230V~ / 3680W	Length: approx. 191 mm
	Current me	pasurement	
	509.009	· Anodised aluminium profile, 1 U	
		· 1 x current measurement (digital ammeter)	
1		· Power input: GST18i3 plug, black	
		· Power outlet: 2 x GST18i3 socket, black	
		· Current measurement features:	
		Range 0-16A, max. current 32A,	
		Accuracy: class 1, backlit liquid crystal display	
	FACTORY	1 U Metered Plus BlueNet, GST18, max. 16A / 230V~ / 3680W	Length: approx. 191 mm
	Current and	d power measurement with phase angle	
	509.012	· Anodised aluminium profile, 1 U	
		· 1 x current + power measurement	



4

- Power input: GST18i3 plug, black
  Power outlet: 2 x GST18i3 socket, black
  Power measurement features:
- backlit LCD display, precision: class 1, 1-phase, max. 16 A Mains voltage (V), current (A), frequency (Hz), phase angle, energy (kWh) and power (kW) measurement

Suitable mountings on page 144

### Feed modules - greater safety at the workstation

#### Feed module in aluminium profile, 1 U (width 44.5 mm) with protective features and 2 power outlets

- Can be used as the base unit for any power strip
- Easy to fit with specially designed mounts (ESD-capable)
- Connects to power strip via extension cable (see page 139)
- 1 x power input and 2 x power outlet in Wieland GST18 system for connecting to one or two power strips or workstations
- Integral protector unit with overvoltage protection, miniature circuit breaker or residual current device
- · Feed module with built-in current and power measurement to record energy consumption of workstation

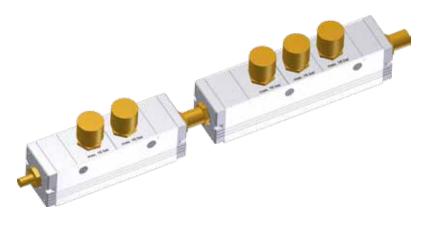
Art. no.	Version	
FACTORY	1 U overvoltage protection with filter, GST18, $$ max. 16A / 230V~ / 3680WLength: approx. 235 mm	
509.006	<ul> <li>Anodised aluminium profile, 1 U</li> <li>1 overvoltage protector, 6.5 kA with optical function and fail indicator; Mains filter, 30 MHz</li> <li>Power input: GST18i3 plug, black</li> <li>Power outlet: 2 x GST18i3 socket, black</li> </ul>	
FACTORY	1 U miniature circuit breaker, GST18, max. 16A / 230V~ / 3680W Length: approx. 235 mm	
509.007	<ul> <li>1 U miniature circuit breaker, GST18, max. 16A / 230V~ / 3680W</li> <li>Length: approx. 235 mm</li> <li>Anodised aluminium profile, 1 U</li> <li>1 miniature circuit breaker, 16A, 2-pole, type B</li> <li>Power input: GST18i3 plug, black</li> <li>Power outlet: 2 x GST18i3 socket, black</li> </ul>	

509.008 · Anodised aluminium profile, 1 U

- · 1 residual current device, 16A, tripping current 10mA, response time 30 ms, 2-pole
- · Power input: GST18i3 plug, black
- · Power outlet: 2 x GST18i3 socket, black
- * From 1 February 2009 all mains circuits supplying power sockets used by non-technical specialists must be fitted with an RCD. Indoor: up to 20 A / Outdoor: up to 32 A

1 LIEL - Ser

### COMPRESSED AIR - everything in one system



## Aluminium profile, 1 U (width 44.5 mm) with standard compressed-air outlets for up to 16 bar

- Simple to fit with specially designed mountings
- Standard compressed air outlets, nominal diameter 7
- Infeed and onward supply via nominal diameter 5
- Strips can be linked to one another directly or via a connecting hose
- Other nominal diameters and configurations are available on request

Art. no.	Version	
FACTORY	1 U 2x compressed air outlet, max. 16 bar	Length: approx. 147 mm
509.010	<ul> <li>Anodised aluminium profile, 1 U</li> <li>2 compressed air outlets (NW7 coupling)</li> <li>Compressed air inlet via NW5 connector</li> <li>Compressed air outlet via NW5 coupler</li> </ul>	
FACTORY	1 U 3 x compressed air outlet, max. 16 bar	Length: approx. 187 mm
509.011	<ul> <li>Anodised aluminium profile, 1 U</li> <li>3 compressed air outlets (NW7 coupling)</li> <li>Compressed air inlet via NW5 connector</li> <li>Compressed air outlet via NW5 coupler</li> </ul>	

#### Compressed air

Ordinary air is forced via compressors to a higher pressure and can be used to drive a variety of equipment. Bachmann FACTORY compressed air units distribute the compressed air to two or three access points for end-use devices (screwdrivers, compressed-air guns etc). Each compressed air unit also has a compressed air outlet, allowing more than one unit to be used in combination.

### ESD – all-round protection

### Aluminium profile, 1 U (width 44.5 mm) with standard ESD connectors

- Simple to fit with specially designed mountings (ESD-capable)
- Integrates simply into ESD design of workstation via standard plug connectors and so can be used as **EBP (earth bonding point)**
- Other nominal diameters and configurations are available on request

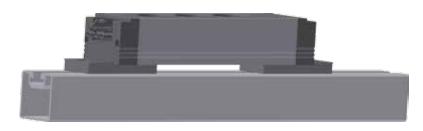


Art. no.	Version	
FACTORY	( 1 U 3x ESD 10 ohm	Length: approx. 104.5 mm
509.013	<ul> <li>Anodised aluminium profile, 1 U</li> <li>2 x ESD snap connector sockets, 10 mm, 10 ohm</li> <li>Input: 3 m cable, green/yellow with M4 ring termination</li> </ul>	
FACTORY	( 1 U 3x ESD 10 ohm	Length: approx. 147 mm
509.014	<ul> <li>Anodised aluminium profile, 1 U</li> <li>3 x ESD snap connector socket, 10 mm, 10 ohm</li> <li>Input: 3 m cable, green/yellow with M4 ring termination</li> </ul>	

#### ESD

ESD stands for electrostatic discharge, which occurs when two bodies at different voltage potentials come into contact and their charges equalise. Electrostatic charges are created when two different materials are rubbed together or are separated from one another. Examples include: walking on plastic floors, rubbing against synthetic clothing, moving plastic containers, unrolling adhesive PVC tapes or moving conveyor belts. In modern workspaces static charges can create high static voltages. Charges of above 10 kV are not uncommon. Where air humidity is below 20 %, values of 30 kV have been recorded.

### STEP - the low-cost alternative





### Power strips in plastic or aluminium profile (width 52 mm) for a simple modular electrification system.

- Compact dimensions and robust housing
- Can be mounted on T-slot profiles and the upright profiles of various manufacturers
- Easy to fit with specially designed mounts (ESD-capable)
- Mains input and output based on Wieland GST18 connector system
- Strips can optionally be fitted with modules (from page 137)
- Strips can be linked to one another using device extension cables (see page 147)
- Power infeed direct to mains input via supply cable (see page 147) or via feed modules (see from page 137)



#### Art. no. Version

STEP BAS	SE 3 x earthing contact, GST18, max. 16A / 230V~ / 3680W	Length: approx. 220 m
336.600	<ul> <li>Light-grey plastic profile, socket outlets black</li> <li>3 x socket outlet with earthing contact, set at 35°</li> <li>Power input: GST18i3 plug, black</li> <li>Power outlet: GST18i3 socket, black</li> <li>Incl. safety plug catch</li> </ul>	
STEP BAS	SE 3 x earthing contact, red, GST18, max. 16A / 230V~ / 3680W	Length: approx. 220 m
336.601	<ul> <li>Light-grey plastic profile, socket outlets red</li> <li>3 socket outlets with earthing contact, set at 35°</li> <li>Power input: GST18i3 plug, black</li> <li>Power outlet: GST18i3 socket, black</li> <li>Incl. safety plug catch</li> </ul>	
STEP BAS	SE 4 x earthing contact, GST18, max. 16A / 230V~ / 3680W	Length: approx. 262.5 m
336.604	<ul> <li>Light-grey plastic profile, socket outlets black</li> <li>4 socket outlets with earthing contact, set at 35°</li> </ul>	

- · Power outlet: GST18i3 socket, black
- $\cdot$  Incl. safety plug catch

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### 💮 Max. 16A/230V~ 🕥

#### Art. no. Version

		Length: approx. 262.5 mm	
906.003	<ul> <li>, controls sockets only</li> <li>Anodised aluminium profile, socket outlets black</li> </ul>		1 0.00
900.003	A notised authinitian profile, socket outlets black     1 switch, green, 2-pole, illuminated, switches sockets only (not power out	tlot)	12.2
	· 3 socket outlets with earthing contact, set at 35°	liet)	
	• Power input: GST18i3 plug, black		
	• Power outlet: GST18i3 socket, black		
	Incl. safety plug catch		
	· Inci. Salety plug catch		
STEP AL	U 1x switch, 3x earthing contact, GST18, max. 16A / 230V~ / 3680W	Length: approx. 262.5 mm	
1 x switch	n, controls power input (sockets and power outlet)		
906.031	· Anodised aluminium profile, socket outlets black		
	· 1 switch, green, 2-pole, illuminated, controls power input		0
	· 3 socket outlets with earthing contact, set at 35°		
	· Power input: GST18i3 plug, black		1 1 2 2 2 2
	· Power outlet: GST18i3 socket, black		-
	Incl. safety plug catch		
STED AL	U, GST18, max. 16A / 230V~ / 3680W	Length: approx. 220 mm	CUSTOM
1x custon		Length. approx. 220 mm	COSTOM
906.000	• 1 anodised aluminium profile, 1 U		
	· 3 socket outlets with earthing contact, set at 35°		
	· 1 custom module cover, blank		1.1.2
	Power input: GST18i3 plug, black		1 -9-9 -1
	• Power outlet: GST18i3 socket, black		1
	Incl. safety plug catch		
STEP AL	U, GST18, max. 16A / 230V~ / 3680W	Length: approx. 220 mm	
Overvolta	ge protection		
336.004	Anodised aluminium profile, 1 U		
	• 1 overvoltage protection unit, 6.5 kA, with function and fail indicator; main	ns filter 30 MHz	
	Power input: GST18i3 plug, black		
	Power outlet: GST18i3 socket, black		
	Incl. safety plug catch		-
	U, GST18, max. 16A / 230V~ / 3680W	Length: approx 220 mm	
	circuit breaker, 16 A	Length: approx. 220 mm	-
336.015	Anodised aluminium profile, 1 U		E
	1 miniature circuit breaker, 16A, 2-pole, type B		12
	Power input: GST18i3 plug, black		A
	• Power outlet: GST18i3 socket, black		-
	Incl. safety plug catch		
STEP AL	U, GST18, max. 16A / 230V~ / 3680W	Length: approx. 220 mm	
Residual	current device, 16A, 10 mA		
906.067	· Anodised aluminium profile, socket outlets black		and the
	· 1 residual current device, 16A, tripping current 10mA, response time 30	ms, 2-pole	
	· Power input: GST18i3 plug, black		8
	· Power outlet: GST18i3 socket, black		E.
	Incl. safety plug catch		

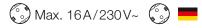
- $\cdot$  1 residual current device, 16A, tripping current 10mA, response time 30 ms, 2-pole
- $\cdot$  Power input: GST18i3 plug, black
- · Power outlet: GST18i3 socket, black
- $\cdot$  Incl. safety plug catch



### AUTOMATIC SWITCHOFF - save power automatically



The Bachmann automatic switchoff unit allows efficient savings in power consumption without major wiring outlay when equipment is not in use. No longer is the proper shutdown of equipment left to chance; now power is conserved when consumption falls below a defined threshold. The effectiveness of this system exceeds the savings possible with master-and-slave power strips, since practically no standby current is drawn by the master device and power consumption during non-use hours is exactly zero. The automatic switchoff device thus saves some 70 euros annually in standby power.

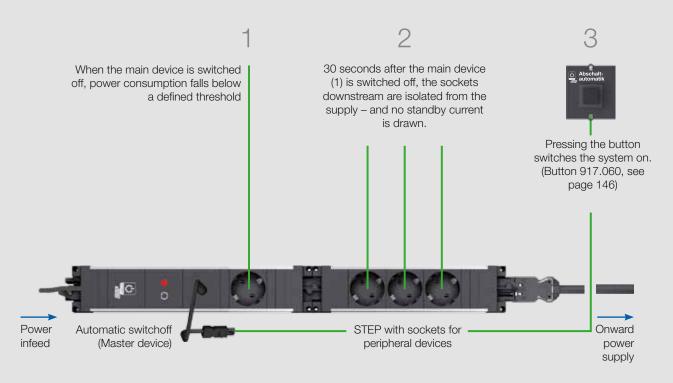


#### Art. no. Version



STEP ALU	, automatic switchoff, GST18, max. 16A / 230V~ / 3680W	Length: approx. 263 mm
		Suitable mountings on page 136
906.005	· Anodised aluminium profile, 1 U	
	· 1 automatic switchoff unit with adjustable threshold	
	· Power input: GST18i3 plug, black	
	· Power outlet: GST18i3 socket, black	
	Incl. safety plug catch	

### How the automatic switchoff works



### Tradesman's strip: robust professional quality

- Separate earth conductor of up to 4 mm² connects directly
- · Easily accessible terminal to allow other conductor lengths to be connected
- · End caps with additional screw holes for mounting on different profiles (T-slot or upright)
- Outlet sockets set at 90° with 15 mm additional spacing ideal for mains plugs with large housings
- 2.0 m cable, H05VV-F 3G 1.50 mm² with right-angle earthed plug

Tradesman's strip, sockets set at 90°, max. 16A / 230V~ / 3680 W	
Without switch	
300.000 · 6 socket outlets with earthing contact, set at 90°	
300.001 · 9 socket outlets with earthing contact, set at 90°	03
300.002 · 12 socket outlets with earthing contact, set at 90°	3
With switch, 2-pole, green, illuminated	
300.003 · 6 socket outlets with earthing contact, set at 90°	
300.004 · 9 socket outlets with earthing contact, set at 90°	
300.005 · 12 socket outlets with earthing contact, set at 90°	

### Power strip for horizontal mounting

- Combination of sockets and various custom modules (see page 146)
- · Can be mounted on T-slot profiles and upright profiles of various manufacturers with the metal mounting brackets provided, but fully insulated from the socket profile (ESD-capable)
- Power infeed direct to mains input via supply cable (see page 147) or via feed modules (see from page 137)

#### Art. no. Version

906.039	ALU 2 x switch, 6 x earthing contact, max. 16A / 230V~ / 3680W · Anodised aluminium profile, >1 U	Length: approx. 920 mm
	· 1 switch, green, 2-pole, controls sockets	
	$\cdot$ 3 socket outlets with earthing contact, black, set at 35°	
	· 5 custom module covers, blank	
	$\cdot$ 3 socket outlets with earthing contact, black, set at 35°	En n n hadar n n n
	· 1 switch, red, 2-pole, controls power outlet	a plate
	· Power input: GST18i3 plug, black	100
	Incl. safety plug catch	1

### TWIN: for workstations requiring a large number of sockets

- · Compact dimensions thanks to arrangement of sockets on 2 profile tracks
- Can be mounted on T-slot profiles and upright profiles of various manufacturers with the metal mounting brackets provided, but fully insulated from the socket profile (ESD-capable)
- Strips can optionally be fitted with data or media technology modules (from page 146)
- · Power infeed direct to mains input via supply cable (see page 147) or via feed modules (see from page 137)

#### Art. no. Version

Universal ALU 10 x earthing contact, max. 16A / 230V~ / 3680W		Length: approx. 366 mm CUSTOM
922.014	Anodised aluminium profile, >1 U	
	$\cdot$ 2 x 5 socket outlets with earthing contact, set at 35°	
	· 2 custom module covers, blank	
	Power input: 0.1m H05VV-F 3G 1.50mm ² black, with GST18i3 plug	- chebebebet -
	Incl. 4 mounting brackets 940.096 (see page 144)	

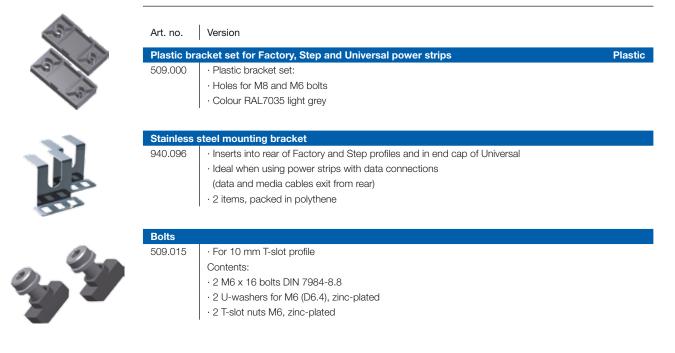
### Fixings – suitable for all systems

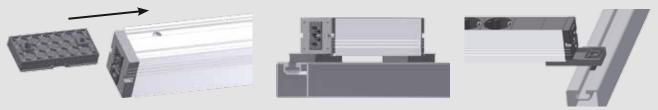


Mountings for the FACTORY and STEP ranges of power strip onto T-slot profiles, upright profiles and tabletops.

- ESD-compatible mountings
- Simple to fit, can be flexibly swapped
- Use standard M8 or M6 screws and ordinary tools

#### Fixing accessories for Bachmann PDUs





Plastic brackets allow versatile mounting on T-slot or upright profiles. The brackets are inserted into the profile groove on the rear of the strip. Suitable for power strips in the FACTORY and STEP series.



Use of brackets with STEP power strips, 36 mm in height.

No ESD capability specified.



Use of bracket with UNIVERSAL power strips. The bracket simply slots into the UNIVERSAL end cap and can be fixed in various positions.

## DESK - versatile tabletop power strip

## DESK power strips as tabletop units for workstations, letting you combine power outlets with data and media technology modules

- · Combine power outlets with data and media modules
- Sockets and power outlets can be switched off to save energy
- Mounts on tabletop workstations with screws or brackets (available separately)
- Strips can optionally be fitted with data or media technology modules (see from page 146)
- Power infeed direct to mains input via supply cable (see page 147) or via feed modules (see from page 137)





Max. 16A/230V~

## Art. no. Version

DEGICTX	switch, 3 x earthing contact, max. 16A / 230V~ / 3680W	Length: approx. 268 mm	
339.1001	· Anodised aluminium profile, socket outlets black		
	· 1 switch, green, 2-pole, illuminated, controls sockets		
	· 3 socket outlets with earthing contact, set at 35°		E
	Power input: 3.0m H05VV-F 3G 1.50mm ² black, with right-angle earther	d plug	
	· incl. standard brackets		•
DESK 1 X		1	01107014
1 x custon	switch, 3 x earthing contact, GST18, max. 16A / 230V~ / 3680W	Length: approx. 368 mm	CUSTOM
		Length: approx. 368 mm	CUSTOM
	n module	Length: approx. 368 mm	
1 x custon 902.017	• Module • Anodised aluminium profile, socket outlets black	Length: approx. 368 mm	
	<ul> <li>Module</li> <li>Anodised aluminium profile, socket outlets black</li> <li>1 switch, green, 2-pole, illuminated, controls sockets and power outlet</li> </ul>	Length: approx. 368 mm	
	<ul> <li>module</li> <li>Anodised aluminium profile, socket outlets black</li> <li>1 switch, green, 2-pole, illuminated, controls sockets and power outlet</li> <li>3 socket outlets with earthing contact, set at 35°</li> </ul>	Length: approx. 368 mm	CUSTOM

- $\cdot$  1 switch, green, 2-pole, illuminated, controls sockets and power outlet
- $\cdot$  3 socket outlets with earthing contact, set at 35°
- · 1 custom module cover, blank
- · Power input: GST18i3 plug, black
- · Power outlet: GST18i3 socket, black
- · Brackets not included (available separately)

902.018	· Anodised aluminium profile, socket outlets black		
	- Anouised aluminium prome, socket outlets black		
	· 1 switch, green, 2-pole, illuminated, controls sockets a	nd power outlet	
	$\cdot$ 3 socket outlets with earthing contact, set at 35°		
	· 2 custom module covers, blank		2221-5
	· Power input: GST18i3 plug, black		
	· Power outlet: GST18i3 socket, black		•
	· Brackets not included (available separately)		
DESK sta	ndard brackets	for tabletop thicknesses up to 5	50 mm
			TT
930.120	Anodised aluminium, thickness approx. 9 mm		
	Contents:		
	· 2 support brackets, anodised aluminium		
	· 2 M5 x 60 mm Allen bolts		

930.183 · 2 Spax screws, 5 x 90 mm incl. brass threaded sleeve



## Custom modules for networks, media and programming

Bachmann custom modules are the central building blocks for network, media or programming connections, and fit easily and flexibly into power strip units with custom module covers.



- Flexibly interchangeable modules
- · Simple to connect using socket/socket versions and connecting cables
- Can be purchased as a kit
- Can be fitted or replaced later
- Warranty is not affected by fitting/replacement since each frame is insulated separately
- · Screws and frames are designed for approx. 10 bolting cycles
- Bolts = Torx T6 For other versions see page 54.



## Art. no. Module 2 x Keystone

- 917.000 · Module, black, accepts 2 data sockets
- with Keystone mounting system



## Module 1 x Keystone

- 917.001 · Module, black, accepts
- 1 data socket

918.071

918.072

· Keystone fixing

**OWG-SC Keystone** 

· OWG-SC coupler

· Keystone fixing

with Keystone mounting system

**OWG-LC** duplex Keystone

· Suitable for modules 917.000 and 917.001

· OWG-LC duplex coupler



#### 940.044

Art. no.

- · Type: BTR E-DAT
- · Front: RJ45 (Keystone fixing)

CAT6 coupling socket/socket

- · Rear: RJ45 (E-DAT mounting)
- Shielded
- Suitable for modules 917.000 and 917.001

#### CAT5e coupling socket/socket 940.057

- · Front: RJ45 (Keystone fixing)
- · Rear: RJ45 (Keystone fixing)
- Shielded
- Suitable for modules 917.000 and 917.001

## ISDN RJ12 socket/socket

#### 940.085

- · Rear: RJ 12 (Keystone fixing)



#### PS2 mouse + keyboard 917.031

- · Front: PS2 MiniDin socket (mint green for mouse and lilac for keyboard)
  - · Rear: PS2 MiniDin socket (mint green for mouse and lilac for keyboard)



## Button for automatic switchoff 917.060

- Front: button, black for automatic switchoff
- · Rear: 1.0m H05VV-F 2 x 0.75mm² black with Wieland GST 15i2 plug connection
- $\cdot$  Use in any socket unit with custom modules



- Front + rear: 9-pole RS232 socket
- 917.012



- · Unshielded
  - · Suitable for modules 917.000 and 917.001



## CAT6a 10GB Patch cable plug/socket 3.0 m

- 918.033 · Front: socket RJ45 CAT6a TKM 10GB
- · Cable, black, with RJ45 plug
- · Shielded
- · Suitable for modules 917.000 and 917.001

## BNC R/G/B

#### 917.090 Front + rear:

BNC R/G/B socket





## Suitable for modules 917.000 and 917.001







RS232

## Supply cables and distributors

## For supplying or linking multiple power strips we offer cables featuring the Wieland GST18 connectors that are used worldwide.

- Prefabricated cables in various lengths
- Plug connectors conforming to world standards, contact-protected
- With mandatory latching to power strips
- Connect to power strips without tools
- Can subsequently be removed
- Power input can be earthed via the separate earthing connection on device supply cables 375.115 - 375.117

#### Length Art. no. Version

Device supply cable, GST18/earthing contact						
With extra	With extra earth connection					
375.115	375.115 2.0 m · Cable: H05VV-F 3G 1.50 mm ²					
375.116	3.0 m	· End 1: right angle plug with earthing contact				
375.117	5.0 m	End 2: Wieland GST18i3 socket with 0.3 m 2.5mm ² green/yellow				
		with M6 ring termination				

## Device supply cable, GST18/earthing contact

375.000 1.5 m · Cable: H05VV-F 3G 1.50 mm ²	
375.075 2.0 m · End 1: right angle plug with earthing contact	=: ************************************
375.003 3.0 m · End 2: Wieland GST18i3 socket	
375.005 4.0 m	
375.007 5.0 m	
375.039 10.0 m	

## Device extension cable, GST18/GST18

Multipliers

375.101

375.102

375.105

375.106

For power distribution

Through-wired for 3-phase

375.050	0.3 m	· Cable: H05VV-F 3G 1.50 mm ²
375.053	1.0 m	· End 1: Wieland GST18i3 plug
375.038	2.0 m	· End 2: Wieland GST18i3 socket
375.055	3.0 m	

Tapping cable, GST 18/earthing contact coupling					
	Extends length from – to				
375.097	0.5-2.5 m	<ul> <li>Spiral device extension cable</li> </ul>			
375.098 1.0-5.0 m · Cable: H07BQ-F 3G 1.50mm ² orange					
· End 1: Wieland GST18i3 plug					
		· End 2: earth contact coupling, black			

		<u>۱</u>
1	Canp	- 🔊

		100
distribution		200
1 x input, 2 x outlets (1)	Input: 3-pole plug	Ĩ.
1 x input, 2 x outlet (2)	· Outlet: 3-pole socket	· · · · · · · · · · · · · · · · · · ·
1 x input, 2 x outlet (2)		53
		2000
ired for 3-phase power, 5 and 3-	pole	
1 x input, 1+6 x outlet	· Input: 1 x plug, 5-pole	



Coupler		
No interloc	k	
375.500	GST input/GST outlet	· For simple connecting of e.g. two Factory
		power strips

· Outlet: 1 x socket, 5-pole

6 x 3-pole socket per outer conductor



## FACTORY LIGHT – good light for assembly workstations

Good lighting facilitates productivity and wellbeing. To meet the particular lighting requirements of assembly workstations, our collaboration with Siteco has developed highly specific lamp systems. These lamp types, for mounting horizontally above the work area or vertically on an upright profile, create bright light over a wide area of the workstation. Depending on specific requirements the lamps may be used singly or in combination. The outrigger lamp, for fitting to a vertical upright profile (770.000) can also be rotated and swivelled, allowing adjustment of the beam angle to the specific needs of the employees and the task. It offers the best conditions for absolutely glare-free light, facilitating efficient work and low fatigue levels. Both models use fluorescent light sources, anodised louvres and electronic ballast units to offer maximum effectiveness and maximum energy savings.

	Art. no.	Version	
	SITECO o	utrigger lamp for assembly areas	Length: 610 mm, width: 125 mm
the fill and			
- In the first first for some	770.000	Lamp in aluminium profile, RAL9006, matt	
a state to the state	-	Incl. 1 x TC-L 36W / 840 light source	
		Electronic ballast to minimise power loss	
		Aluminium specular louvre, satin anodised, for high lighting	g comfort and high efficiency
		Mounts on vertical profile frames     Outrigger arm turns through 260% and suiticals through 18	0° ag agn ha agt up individually
		Outrigger arm turns through 360° and swivels through 18     Can be mounted without opening lamp	o, so can be set up individually
1 1		· GST 18/3 power input	
		orizontal-mount	
Outrigger	lamp for a	ssembly areas Length: 899 mm, wi	dth 87 mm (incl. fixing bracket 126 mm)
	770.001	· Lamp in aluminium profile, RAL9006, matt	
		Incl. 1 x T16 39W / 840 light source	
		· Electronic ballast to minimise power loss	
200		· Aluminium specular louvre, satin anodised, for high lighting	g comfort and high efficiency
CONTRACTOR AND		· CRF (contrast rendering factor) louvre to avoid reflected g	lare
a contraction		Mounts on horizontal roof section	
	MARCH 1	· Can be mounted without opening lamp	
	21 7 1 m	· GST 18/3 power input + power output with 3-pole throug	h wiring
<		1	

#### Note

These lamps should be operated via BACHMANN FACTORY power strips with switched power outlets (see pages 134) or any other external switch. They have no built-in switch of their own.

Eulumdat data is available on request.

## FACTORY SPOTLIGHT - light exactly where you need it

There are certain situations in which a particularly high brightness of light on the workpiece is essential. The LED flexible arm lamp (770.002) allows you to match the light intensity and angle of illumination quickly and flexibly to any work situation. The high-quality flexible tube allows quick and precise positioning of the lamp head. Thanks to the use of LEDs this remains considerably cooler than a 20 W halogen lamp, yet is brighter than a 35 W halogen lamp. Where there is a particular need for illumination of a specific area, our LED flexible arm lamp forms the ideal complement to wide-area workplace illumination (see FACTORY LIGHT 770.000 + 770.001).

#### Art. no. Version

Flexible-a	arm LED lamp for assembly areas	
770.002	<ul> <li>High-performance lamp head with 3 x 3W POWER LED, cool white, 30° beam angle</li> <li>Up to 60 000 operating hours (designed for continuous use)</li> <li>Illuminance 5000 lux at distance of 0.5 m</li> <li>Luminous flux 600 lumens</li> <li>Lamp head IP 64 protected (against dust and splashwater)</li> <li>Special mounting bracket for fitting to T-slot profiles of various manufacturers</li> <li>External LED operating unit (IP 20) with GST 18/3 power connection</li> <li>Flexible arm length 500 mm, lamp head diameter 75 mm</li> </ul>	

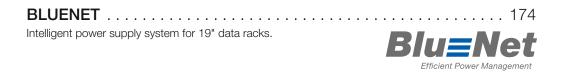
## Cost comparison of LED lamp with conventional lighting

Туре	LED lamp	Incandescent lamp	Halogen lamp
Acquisition costs of lamp in €	360.00	150.00	250.00
Cost of illuminant, each, in €	-	1.50	4.00
Lifetime of illuminant, hours	60 000	approx. 1000	approx. 2000
Power consumption	9 W	60 W	20 W
Illuminant costs after 60 000 operat- ing hours, in €	_	90.00	120.00
Energy consumption after 60 000 operating hours, kWh	540	3600	1200
Costs (approx. 0.20 €/kWh)	108.00	720.00	240.00
Total costs after 60 000 operating hours, in €	468.00	960.00	610.00

Calculated for 60 000 operating hours

# **Bachmann IT Power Distribution**

INTRODUCTION / SAMPLE APPLICATIONS	2
POWER DISTRIBUTION UNIT 1 U	8
POWER DISTRIBUTION UNIT > 1 U	0



ACCESSORIES			
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# **IT POWER DISTRIBUTION**

Systematic Bachmann IT power distribution

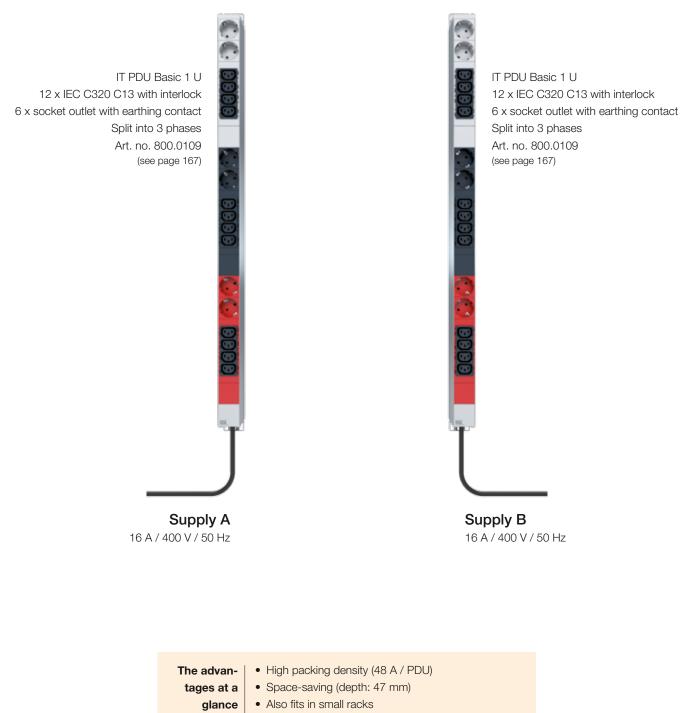
Forty years of experience in developing, manufacturing and distributing power distribution solutions. True to this history, BACHMANN is synonymous with high-quality and innovative electronics and high measurement accuracy, packaged in extremely robust aluminium housings.

We provide solutions in IT energy distribution. Our intelligent and modular product range provides great peace of mind. The Power Distribution Unit, PDU Basic, and Bachmann's BlueNet products meet all key requirements for future-proofed, highly efficient energy distribution, especially for data centres.

Bachmann Power Distribution provides various solutions for this sector:

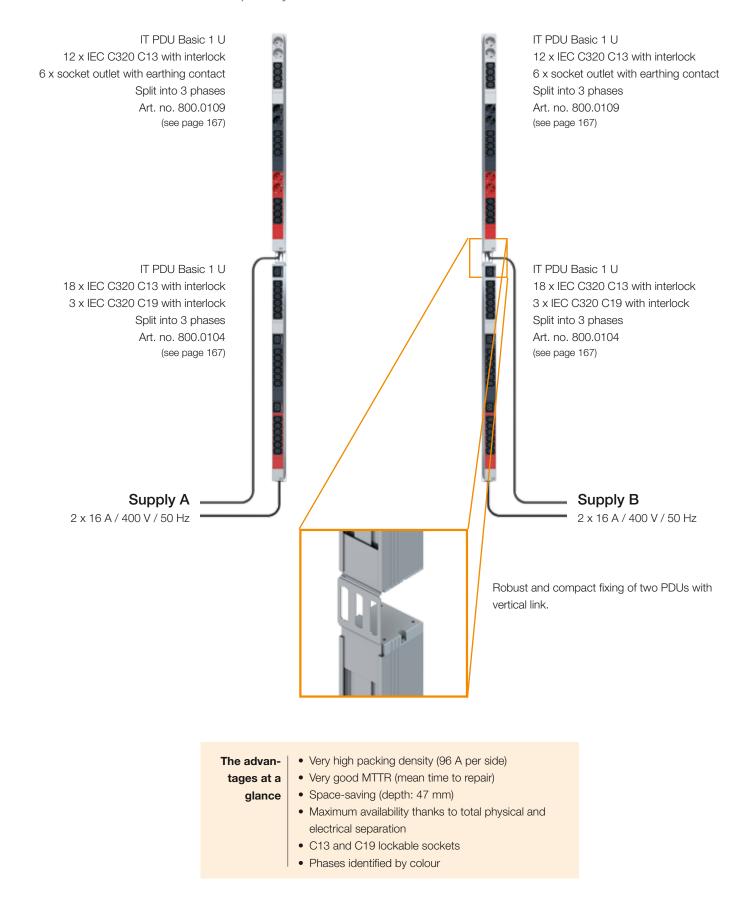
- New and intelligent energy distribution systems
- Upgrading existing energy distribution systems
- Combination of existing PDUs and Bachmann Power Distribution products

## SAMPLE RACK CONFIGURATION

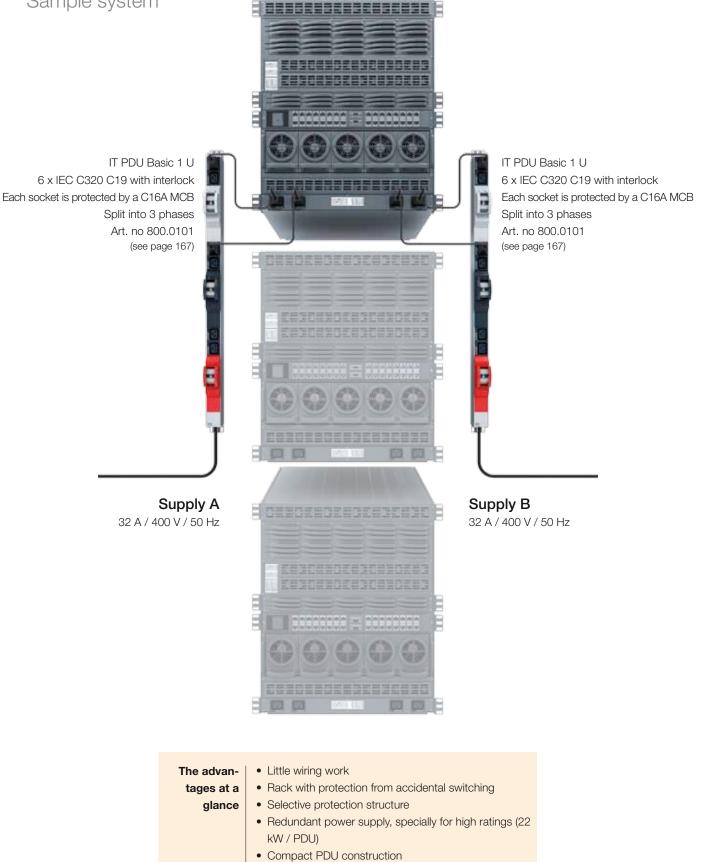


- Good availability (N +1 redundancy)
- C13 lockable sockets
- Phases identified by colour

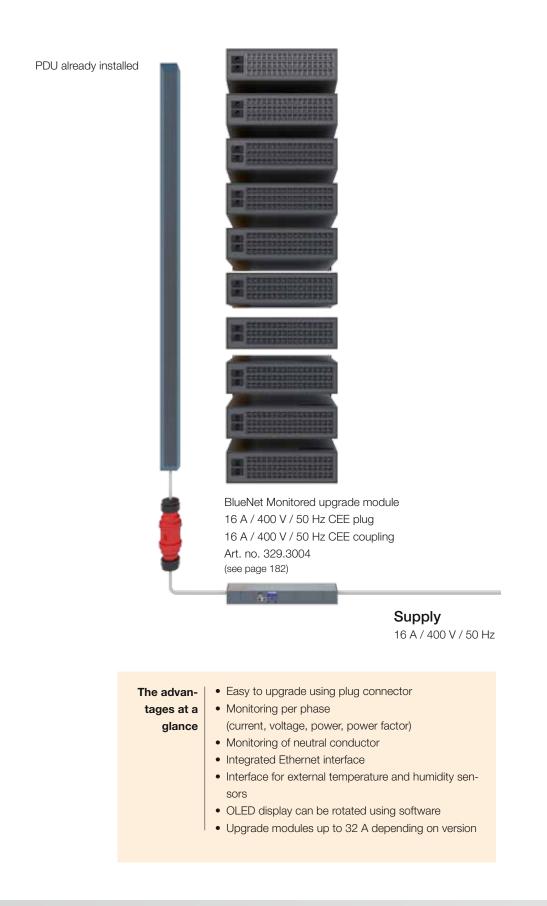
## SAMPLE RACK CONFIGURATION



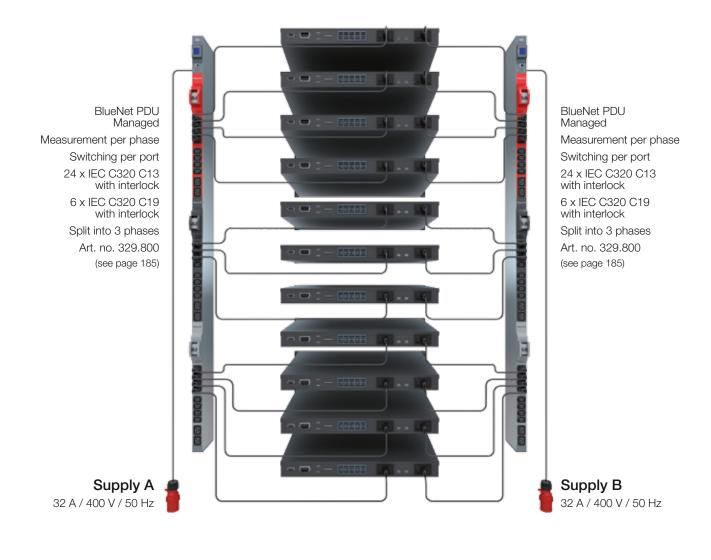
## **BLADE CENTER RACK**



## **UPGRADE SOLUTION**



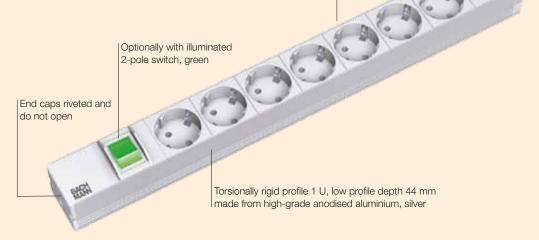
## INTELLIGENT PDU CONCEPT



The advan-	<ul> <li>System with N + 1 redundancy</li> </ul>
tages at a	<ul> <li>Very high packing density (96 A per side)</li> </ul>
glance	<ul> <li>Integrated measurement of current, voltage,</li> </ul>
	frequency, power factor, effective power and energy
	<ul> <li>Switching per socket outlet</li> </ul>
	<ul> <li>MCBs split 32 A per phase over two blocks</li> </ul>
	with 16 A each
	<ul> <li>Integrated Ethernet interface</li> </ul>

# IT PDU 1 U 19" IT PDU Basic (230 V / 50 Hz) Power supply for 19" data racks Universal bracket for mounting in 19" data rack Can be flexibly positioned in the rack, on the rear panel or vertically on the enclosure frame Various country-specific versions available as standard

 $\cdot$  Various socket colours available on request



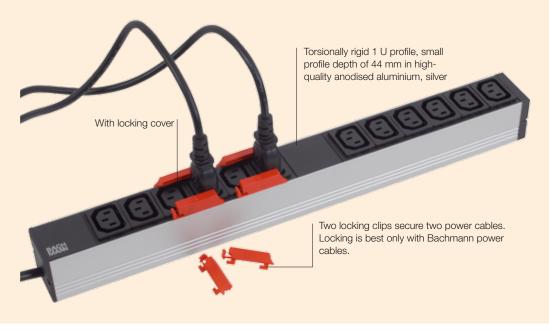
Modular socket outlet

design

## **IEC LOCKABLE**

## 19" IT PDU Basic (230 V / 50 Hz)

- · Power supply for 19" data racks with lockable IEC socket outlets
- · Locking mechanism prevents unintentional disconnection
- $\cdot$  Various socket colours available on request

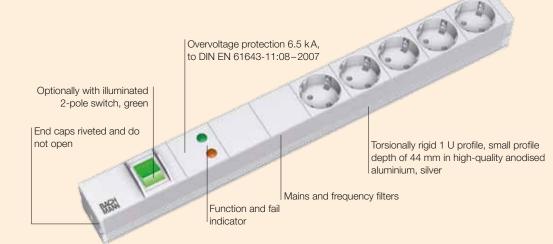


Mounting brackets included with all PDUs.

## **OVERVOLTAGE PROTECTION**

19" IT PDU Basic (230 V / 50 Hz)

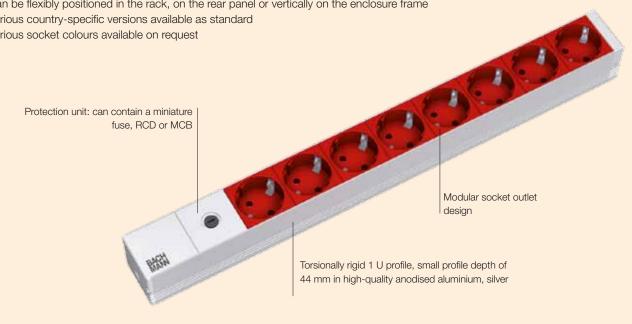
- · Power supply for 19" data racks with built-in protection functions
- · Overvoltage protection against current peaks in 230V mains supply
- · Mains and frequency filter to attenuate interference (symmetrical and asymmetric) in upper frequency range
- · Various socket colours available on request



## PROTECTION

## 19" IT PDU Basic (230 V / 50 Hz)

- Power supply for 19" data racks with built-in fuses
- Universal bracket for mounting in 19" data rack
- · Can be flexibly positioned in the rack, on the rear panel or vertically on the enclosure frame
- · Various country-specific versions available as standard
- · Various socket colours available on request





# **IT PDU BASIC 1 U** Power Distribution Units 230 V / 50 Hz

With its IT-PDU 1 U, Bachmann provides a huge choice of PDUs in a high-quality aluminium profile. Given their extremely compact size of just 1 U in height, 44 mm in depth and 19" in width, the PDUs can be easily integrated in your IT rack. Using the multi-functional mounting brackets, various installation variants (e.g. shifted inwards etc.) are possible. Our high quality standards guarantee you a secure contact.

## 19" IT PDU Basic (230 V / 50 Hz)

For description, see page 158

Art. no.			000
Art. 110.	Version	Colour (plastic / profile)	eccecece -
19" IT PD	U Basic		0000
vithout sv	vitch, 2.0 m H05VV-F 3G 1.50 mm², black, with righ	t angle plug with earthing contact	
333.401	9 socket outlets with earthing contact light grey	light grey / silver	1. 3. 3.
333.506	9 socket outlets with earthing contact light grey	black / black	500
333.539	9 IEC320 non-heating appliance socket outlets C13 black	light grey / silver	
333.616	12 IEC320 non-heating appliance socket outlets C13 black	black / black	LOCKABLE
without sw	vitch, 2.0 m H05VV-F 3G 1.50 mm ² , black, with IEC	320 C20 plug	
333.815	8 IEC320 non-heating appliance socket outlets C19 black	light grey / silver	
without sv	vitch, without supply cable, rewireable with terminal	block	
333.416	8 socket outlets with earthing contact, light grey	light grey / silver	
333.830	12 IEC320 non-heating appliance socket outlets C13 black	black / black	LOCKABLE
with switc	h, 2.0 m H05VV-F 3G 1.50 mm², black, with right ar	gle plug with earthing contact	2003
333.400	8 socket outlets with earthing contact light grey	light grey / silver	000
333.505	8 socket outlets with earthing contact light grey	black / black	1
Art. no.	Version	Colour	0000
19" IT PD	U Basic with overvoltage protection		1
without sv	vitch, 2.0 m H05VV-F 3G 1.50 mm², black, with righ	t angle plug with corthing contact	
333.404		angle plug with eartning contact	1.5
	8 socket outlets with earthing contact grey	light grey / silver	0000
	8 socket outlets with earthing contact grey           8 socket outlets with earthing contact black		
333.534		light grey / silver black / black	- 000000
333.534 with switc	8 socket outlets with earthing contact black	light grey / silver black / black	
333.534 with switc 333.405	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right ar	light grey / silver black / black gle plug with earthing contact	10000001 H
333.534 with switc 333.405 333.535	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right ar 7 socket outlets with earthing contact light grey	light grey / silver black / black gle plug with earthing contact light grey / silver black / black	
333.534 with switc 333.405 333.535 <b>19" IT PD</b> without sv	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black	light grey / silver black / black gle plug with earthing contact light grey / silver black / black I frequency filters t angle plug with earthing contact	100000001
333.534 with switc 333.405 333.535 <b>19" IT PD</b> without sw 333.402	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and vitch, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right 6 socket outlets with earthing contact light grey	light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         frequency filters         t angle plug with earthing contact         light grey / silver	0000000 1-1-000000 1-1-000000
333.534 with switc 333.405 333.535 <b>19" IT PD</b> without sw 333.402 333.536	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and vitch, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right 6 socket outlets with earthing contact light grey 6 socket outlets with earthing contact black	light grey / silver         black / black         igle plug with earthing contact         light grey / silver         black / black         frequency filters         t angle plug with earthing contact         light grey / silver         black / black	
333.534 with switc 333.405 333.535 <b>19" IT PD</b> without sw 333.402 333.536 with switc	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and vitch, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right 6 socket outlets with earthing contact light grey 6 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right ar	light grey / silver         black / black         ight grey / silver         light grey / silver         black / black         Ifrequency filters         t angle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         ight grey / silver         black / black         gle plug with earthing contact	
333.534 with switcl 333.405 333.535 <b>19" IT PD</b> without sw 333.402 333.536 with switcl 333.403	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right ar 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and witch, 2.0 m H05VV-F 3G 1.50 mm², black, with right 6 socket outlets with earthing contact light grey 6 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right ar 5 socket outlets with earthing contact light grey	light grey / silver         black / black         igle plug with earthing contact         light grey / silver         black / black         I frequency filters         t angle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         ight grey / silver         light grey / silver         light grey / silver	
333.534 with switcl 333.405 333.535 <b>19" IT PD</b> without sw 333.402 333.536 with switcl 333.403 333.537	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and vitch, 2.0 m H05VV-F 3G 1.50 mm², black, with right 6 socket outlets with earthing contact light grey 6 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right an 5 socket outlets with earthing contact light grey 5 socket outlets with earthing contact light grey 5 socket outlets with earthing contact black	light grey / silver         black / black         ight grey / silver         light grey / silver         black / black         Ifrequency filters         t angle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         ight grey / silver         black / black         gle plug with earthing contact	
333.534 with switc 333.405 333.535 <b>19" IT PD</b> without sw 333.402 333.536 with switc 333.403 333.537 <b>19" IT PD</b>	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and vitch, 2.0 m H05VV-F 3G 1.50 mm², black, with right 6 socket outlets with earthing contact light grey 6 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right an 5 socket outlets with earthing contact light grey 5 socket outlets with earthing contact light grey 5 socket outlets with earthing contact black U Basic mains and frequency filters	light grey / silver         black / black         ngle plug with earthing contact         light grey / silver         black / black         d frequency filters         t angle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         black / black	
333.534 with switc 333.405 333.535 <b>19" IT PD</b> without sw 333.402 333.536 with switc 333.403 333.537 <b>19" IT PD</b>	8 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right an 7 socket outlets with earthing contact light grey 7 socket outlets with earthing contact black U Basic with overvoltage protection + mains and vitch, 2.0 m H05VV-F 3G 1.50 mm², black, with right 6 socket outlets with earthing contact light grey 6 socket outlets with earthing contact black h, 2.0 m H05VV-F 3G 1.50 mm², black, with right an 5 socket outlets with earthing contact light grey 5 socket outlets with earthing contact light grey 5 socket outlets with earthing contact black	light grey / silver         black / black         ngle plug with earthing contact         light grey / silver         black / black         d frequency filters         t angle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         gle plug with earthing contact         light grey / silver         black / black         black / black	

19

## 19" IT PDU Protection (230 V / 50 Hz)

For description, see page 159



Art. no.	Version	Colour (plastic / profile)			
19" IT PDU	19" IT PDU Basic with fusing				
10 A minia	ture fuse, 2.0 m H05VV-F 3G 1.00 mm ² , black, with I	EC320 C14 plug			
333.410	8 socket outlets with earthing contact, red	light grey / silver			
333.538	8 socket outlets with earthing contact, red	black / black			
10 A minia	ture fuse, 2.0 m H05VV-F 3G 1.50 mm², black, with r	ight angle plug with earthing contact			
333.408	8 IEC320 non-heating appliance socket outlets C13 black	light grey / silver			
10 A minia	ture fuse, 2.0 m H05VV-F 3G 1.00 mm ² , black, with I	EC320 C14 plug			
333.540	8 IEC320 non-heating appliance socket outlets C13 black	light grey / silver			
1 x residua	l current device, 16 A, tripping current 30 mA				
333.411	6 socket outlets with earthing contact light grey	light grey / silver			
1 x MCB 16 A type B					
333.412	6 socket outlets with earthing contact light grey	light grey / silver			

## Zero U-Space IT PDU Basic (230 V / 50 Hz)

Art. no. Version	Colour (plastic / profile)
Zero U-Space IT PDU Basic	
without switch, 2.0 m H05VV-F 3G 1.50 mm ² ,	black, with right angle plug with earthing contact
333.413 12 socket outlets with earthing cor	ntact light grey   light grey / silver

## 10" IT PDU Basic (230 V / 50 Hz)

Art. no.	Version	Colour (plastic / profile)
IT PDU Ba	sic	
10 ", 2.0 m	H05VV-F 3G 1.50 mm ² , black, with right angle plug	with earthing contact
333.417	3 socket outlets with earthing contact light grey	light grey / silver
333.0122	4 socket outlets with earthing contact light grey	light grey / silver

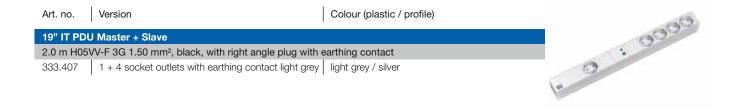
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#### 19" IT PDU Master + Slave (230 V / 50 Hz)

· Automatically isolates all slave devices from supply once master device is shut down/switched off

 $\cdot$  Automatically switches on all slave devices once master device has been switched on

· Integral LED indicates switching status



## LOCKABLE

#### IEC320 C13 lockable

Two locking clips secure two power cables. Locking is best only with Bachmann power cables.

You will find connection cables and locking clips on page 187.





#### IEC320 C19 with IEC lock

The IEC lock system protects computers because servers and electrical equipment may be accidentally disconnected due to vibrations.

## IT PDU BASIC 1U

Country versions

## IT PDU Basic Switzerland



Art. no.	Version	Colour	Supply cable
19" IT PDL	J Basic Switzerland		
without sw	itch		
333.0371	8 x CH type 13 90°	black	2.0 m H05VV-F 3G 1.0mm ²
			with CH plug type 12
333.0377	8 x CH type 23 90°	black	3.0 m H05VV-F 3G 1.5mm ²
			with CH plug type 23
with switch	ı		
333.0374	7 x CH type 13 90°	black	2.0 m H05VV-F 3G 1.0mm ²
			with CH plug type 12
333.0378	7 x CH type 23 90°	black	3.0 m H05VV-F 3G 1.5mm ²
			with CH plug type 23
19" IT PDU	J Basic overvoltage pr	otection Switz	rerland
without sw	itch		
333.0376	7 x CH type 13 90°	black	2.0 m H05VV-F 3G 1.0mm ²
			with CH plug type 12
333.0382	7 x CH type 23 90°	black	3.0 m H05VV-F 3G 1.5mm ²
			with CH plug type 23
19" IT PDU	J Basic overvoltage pr	otection + ma	ins and frequency filters Switzerland
without sw	itch		
333.0375	5 x CH type 13 90°	black	2.0 m H05VV-F 3G 1.0mm ²
			with CH plug type 12
333.0380	5 x CH type 23 90°	black	3.0 m H05VV-F 3G 1.5mm ²
			with CH plug type 23

## IT PDU Basic UK 😹



Art. no. Version	Colour
19" IT PDU Basic UK	
without switch, 2.0 m, H05VV-F 3G 1.5 mm ² with UK plug	
333.804 7 x UK 90° child-proof	grey
with switch, 2.0 m, H05VV-F 3G 1.5 mm ² with UK plug	
333.805 6 x UK 90° child-proof	grey

## IT PDU Basic France

Art. no.	Version	Colour	
19" IT PDI	J Basic France		
without sw	itch, 2.0 m, H05VV-F 3G 1.5 mm ² with right-angled e	earthing contact plug	
333.418	9 x UTE socket outlets	grey	
without sw	itch, rewireable with terminal block		
333.819	8 x UTE socket outlets	grey	
with switch	1		
333.419	7 x UTE socket outlets + switch	grey	
19" IT PDI	J Basic overvoltage protection France		
without sw	itch, 2.0 m, H05VV-F 3G 1.5 mm ² with right-angled e	earthing contact plug	
333.4061	8 x UTE socket outlets	grey	
with switch	n, 2.0 m, H05VV-F 3G 1.5 mm ² with right-angled eart	hing contact plug	
333.838	7 x UTE socket outlets	grey	
19" IT PDI	J Basic overvoltage protection + mains and frequ	ency filters France	
without sw	itch, 2.0 m, H05VV-F 3G 1.5 mm ² with right-angled e	earthing contact plug	1
333.4063	6 x UTE socket outlets	grey	
with switch	n, 2.0 m, H05VV-F 3G 1.5 mm ² with right-angled eart	hing contact plug	
333.840	5 x UTE socket outlets	grey	
19" IT PDI	J Basic with fusing France		9.9
1 x residua	Il current device, 16 A, tripping current 30 mA		0.9.9.7
2.0 m H05	VV-F 3G 1.5mm ² with right-angle earthed plug		5 3 3 S
333.4065	6 x UTE socket outlets	grey	11. 099999
1 x MCB 1	6 A type B, 2.0 m, H05VV-F 3G 1.5 mm ² with right-a	ngled earthing contact plug	1
333.4066	6 x UTE socket outlets	grey	



# **IT PDU BASIC 1U** Power Distribution Units 230 – 400 V / 50 Hz

Work to develop the IT PDU focused on space-saving PDU integration in the server rack with scope for modular expansion. The high-quality and very robust aluminium profile measures a compact 44 x 47 mm. The space-saving design therefore provides space for data cabling and ventilation to climatise the server rack.

Since the links on the IT PDUs can be easily connected, it's very easy to combine various plug versions.

## 19" IT PDU Basic (3 x 16 A / 400 V / 50 Hz)

#### 60 69 6E Version Dimensions Art. no. 19" IT PDU Basic 16 A, 3.0 m H05VV-F 5G $2.5 mm^2$ with CEE plug 16A red 800.0111* 6 IEC320 non-heating appliance socket outlets C19 482.6x44x47mm LOCKABLE 16 A, 3.0 m H05VV-F 5G 2.5mm² with end sleeves 800.0112* 6 IEC320 non-heating appliance socket outlets C19 482.6x44x47mm LOCKABLE Zero U-Space IT PDU Basic (32 A / 230 V / 50 Hz) With integrated MCBs Art. no. Version Dimensions Zero U-Space IT PDU Basic without switch, 3.0 m H05VV-F 3G 4 mm², grey, with CEE plug 32A blue 8

800.0119 20 IEC320 non-heating appliance socket outlets C13 black, 2 x C16A MCB

## Zero U-Space IT PDU Basic (3 x 16 A / 400 V / 50 Hz)

Art. no.	Version	Dimensions		
Zero U-Sp	ace IT PDU Basic 16 A			
16 A, 3.0 m	5G 2.5mm ² with CEE plug 16A red			
800.0104*	18 IEC320 non-heating appliance socket outlets C13, 3 IEC320 non-heating appliance socket outlets C19	821x44x47mm	LOCKABLE	8 8 8
800.0105	18 IEC320 non-heating appliance socket outlets C13	821x44x47mm	LOCKABLE	
800.0107	15 socket outlets with earthing contact	821x44x47mm		
800.0109	12 IEC320 non-heating appliance socket outlets C13, 6 socket outlets with earthing contact	821x44x47mm	LOCKABLE	
16 A, 3.0 m	5G 2.5mm ² with end sleeves			
800.0106*	18 IEC320 non-heating appliance socket outlets C13	821x44x47mm	LOCKABLE	
800.0108*	15 socket outlets with earthing contact	821x44x47mm		
800.0110*	12 IEC320 non-heating appliance socket outlets C13, 6 socket outlets with earthing contact	821x44x47mm	LOCKABLE	

778x44x47mm LOCKABLE

## Zero U-Space IT PDU Basic (2 x 3 x 16 A / 400 V / 50 Hz)

Art. no.	Version		Dimensions		
Zero U-Sp	ace IT PDU Basic 32 A				
Two separa	ate power supply cables, each 2 x 16 A, 3.0 m 5G 2	2.5mm ² with CEE plug 16A red			
800.0113*	36 IEC320 non-heating appliance socket outlets C13, 12	socket outlets with earthing contact	1840x44x47mm	LOCKABLE	
800.0114*	48 IEC320 non-heating appliance socket outlets C	:13	1840x44x47mm	LOCKABLE	
Zero U-Sp With integra	bace IT PDU Basic (3 x 32 A / 400 V / 5 ated MCBs Version	0 Hz)	Dimensions		
Zero U-Sp	ace IT PDU Basic 32 A				
32 A, 3.0 m	5G4mm ² with CEE plug 32A red				김 말
800.0100	12 IEC320 non-heating appliance socket outlets C19	6 miniature circuit-breakers C16A	1075x44x47mm	LOCKABLE	
800.0101*	6 IEC320 non-heating appliance socket outlets C19	6 miniature circuit-breakers C16A	820x44x47mm	LOCKABLE	8
800.0102	36 IEC320 non-heating appliance socket outlets C13	6 miniature circuit-breakers C16A	1586x44x47mm	LOCKABLE	
32 A, 3.0 m	n 5G4mm² with end sleeves				<b>A A</b>
800.0103*	36 IEC320 non-heating appliance socket outlets C13	6 miniature circuit-breakers C16A	1586x44x47mm	LOCKABLE	



# **CABINET LIGHTING** 19" lamp 1 HE

## The advantages at a

## **es at a**With on/off switch**glance**With built-in socke

- With built-in socket recess in various country versions
- Electronic ballast unit
- Includes mounting bracket

• Lighting for 19" data racks

## Max. 16A/230V~

• Power input: 1.5 m H05VV-F 3G 1.50 mm², black, moulded right-angle plug with dual earthing contact system, plastic, RAL7035, sealed riveted end caps, do not open.

#### Art. no. Version

19" lamp,	10	Length: 438.5 mm	
1x switch			
755.000	1 socket outlet with earthing contact		N
755.002	· 1 UTE socket outlet		de?
1x switch,	1x connection point for door-position switch		< /
755.001	1 socket outlet with earthing contact		and a
755.003	· 1 UTE socket outlet		1.Or







## Mounting brackets made from sheet steel:

4 adjustable screw fastenings, each can be rotated 90° degrees. Can be installed horizontally or vertically.

## PDUS > 1 U ALU

## Power Distribution Units

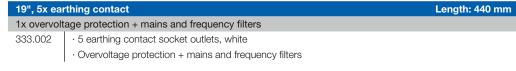
- $\cdot$  Torsionally rigid profile > 1 U (52 mm), profile depth 44 mm
- · Modular socket outlet design
- · Standard socket colour white; other colours black, yellow, red, brown, blue and green also available
- · Optionally includes illuminated 2-pole switch
- $\cdot$  High-quality electronics components built in, e.g. overvoltage protection, mains and frequency filters
- · Mounting brackets included

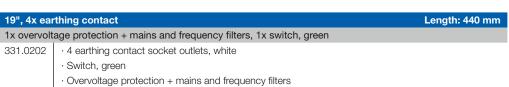
#### End caps riveted and do not open

Power input: 2.0 m, H05VV-F 3G 1.50 mm² grey, with moulded right angle plug with dual earthing contact system, sockets white, set at 35°, mounting brackets included

Art. no.	Version

19", 8x ea	rthing contact	Length: 440
333.001	· 8 earthing contact socket outlets, white	
19", 7x ea	rthing contact	Length: 440 ı
1x switch,	green	
333.000	<ul> <li>7 earthing contact socket outlets, white</li> <li>Switch, green</li> </ul>	
19", 7x ea	rthing contact	Length: 440
1x overvo	Itage protection	
333.004	· 7 earthing contact socket outlets, white     · Overvoltage protection	
19", 6x ea	rthing contact	Length: 440
1x overvo	Itage protection, 1x switch, green	
333.005	· 6 earthing contact socket outlets, white	
	· Switch, green	
	Switch, green     Overvoltage protection	





· # : 00

• 000000

1000001

- 2000

## PDUS > 1 U PVC

**Power Distribution Units** 

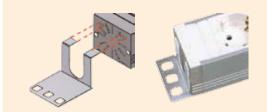
- $\cdot$  Torsionally rigid profile > 1 U (52 mm) in high-quality PVC, profile depth 44 mm
- · Optionally includes illuminated 2-pole switch
- · High-quality electronics components built in, e.g. overvoltage protection, mains and frequency filters
- · Mounting brackets included

End caps riveted and do not open

Power input: 2.0 m, H05VV-F 3G 1.50 mm² grey, with moulded right angle plug with dual earthing contact system, sockets light grey RAL7035, set at 35°, mounting brackets included

Art. no.	Version		. 00000000
19", 8x ea	arthing contact	Length: 440 mm	000
333.601	8 socket outlets with earthing contact		
19", 7x ea	arthing contact	Length: 440 mm	10000
1x switch	, green		
333.600	· 7 socket outlets with earthing contact		
	· Switch, green		• :0000000
19", 7x ea	arthing contact	Length: 440 mm	.0000
1x overvo	oltage protection		
333.604	· 7 socket outlets with earthing contact		
	Overvoltage protection		-E:0000999
19", 6x ea	arthing contact	Length: 440 mm	.000
1x overvo	oltage protection, 1x green switch		
333.605	· 6 socket outlets with earthing contact		
	· Switch, green		10
	Overvoltage protection		. : 00000
19", 5x ea	arthing contact	Length: 440 mm	
1x overvo	Itage protection + mains and frequency filters		-
333.602	<ul> <li>5 socket outlets with earthing contact</li> </ul>		

 $\cdot$  Overvoltage protection + mains and frequency filters



## Stainless steel mounting bracket:

Fastening in the slots of the end cap enables the unit to be fitted at various heights and angles.



# TRADESMAN'S STRIP

Robust, professional quality plastic strip.

With increased distance between socket outlets, allowing easy positioning of mains adaptor plugs and operating equipment.

The advan-	Modern, technical design			
tages at a	End caps with additional screw holes for			
glance	mounting in data racks			
	Additional earth conductor can be connected			
	without opening the housing			
	<ul> <li>Strips in 19" dimensions available</li> </ul>			

Tradesman's strip set at 90°



 $\cdot$  Supply cable: 2.0 m H05VV-F 3G 1.50 mm², black, with right angle plug with earthing contact

 $\cdot$  Socket inserts, black, 15 mm spacing between sockets

Art. no.	Version	Dimensions: (L x W x H)	
Power str	ip 90°		
Without sv	vitch		
300.000	6 socket outlets with earthing contact	• approx. 445 x 74 x 45 mm	19"
300.001	9 socket outlets with earthing contact	• approx. 617 x 74 x 45 mm	22 223
300.002	· 12 socket outlets with earthing contact	• approx. 790 x 74 x 45 mm	1 2999 29999

1x rocker s	1x rocker switch, green				
300.003	· 6 socket outlets with earthing contact	· approx. 445 x 74 x 45 mm			
300.004	· 9 socket outlets with earthing contact	· approx. 617 x 74 x 45 mm			
300.005	· 12 socket outlets with earthing contact	· approx. 790 x 74 x 45 mm			

1x overvoltage protection, 1x rocker switch, green					
300.011	· 6 socket outlets with earthing contact	• approx. 490 x 74 x 45 mm			

1x overvoltage protection + mains and frequency filters, 1x rocker switch, green300.012· 6 socket outlets with earthing contact· approx. 575 x 74 x 45 mm

#### Overvoltage protection with filter

Overvoltage protection – conforms to EN 61643-1:2005, EN 61643-11:2002 + A11:2007, type 3, discharge current 6.5 kA, response time < 25 nS. Suitable for 16A (miniature fuse on request) with varistors, temperature fuse, gas discharge arrester, visual LED function and failure indicator (acoustic signalling also available on request).

Mains and frequency filters, conforming to VDE 0565-3:05-2006, damping diagram on data sheet.

#### Tradesman's strip set at 35°

(; ) |

 $\cdot$  Supply cable: 2.0 m H05VV-F 3G 1.50 mm², black

· In neutral PVC pouch

 $\cdot$  Screwing dimension 465 mm, socket outlets set at 35°

Art. no.	Version	Dimensions: (L x W x H)	0000
Power stri	ip 35°		
Without sw	vitch		10 m
300.006	<ul> <li>8 socket outlets with earthing contact</li> </ul>	• approx. 482.6 x 74 x 45 mm	
1x rocker s	switch, green		19"
300.007	· 7 socket outlets with earthing contact	· approx. 482.6 x 74 x 45 mm	



## **BLUENET** Power Distribution Unit

BlueNet is the intelligent energy management system with a measurement accuracy of +/- 1 %. The neutral conductor measurement also ensures increased safety. Alarm values for current, voltage and the phase angle can be individually set for early detection of physical sources of danger. Temperature sensors or humidity sensors can also be connected.

All BlueNet Network series products have an integrated Ethernet interface and can be connected to monitoring systems via SNMP.

## Power monitoring and display

BlueNet creates the optimum conditions for efficient power management. In order to monitor and control energy costs it is first necessary to know where and when they arise. BlueNet provides all relevant data such as energy consumption, voltage, power and more.

## Capacity planning

Know what's running. By measuring individual loads, administrators can carry out effective planning for their data centre. They can then distribute loads so well that failures due to circuit overloads no longer occur.

## Security

Automated notification when threshold values are reached informs the user by e-mail and SNMP before a fault can develop. Restarts controlled by web link further increase availability and flexibility.

## Network-based evaluation and control

The data captured by BlueNet is evaluated centrally on the network. Thus the user obtains not only an exact energy cost overview but also information on available load reserves and on possible intervention in the power supply.

## Save energy

For an exact analysis of power consumption in data centres, BlueNet is the ideal solution. It enables administrators to select servers for a virtualisation or for decommissioning. By performing a before/after comparison of energy consumption, savings on power costs can be reached in budget planning.

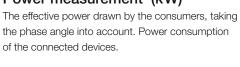




Features	Metered	Metered Plus	Monitored	Monitored Plus	Switched	Managed
Measurement						
Power	•	•	•	•	_	•
Voltage	_	•	•	•	_	•
Phase angle	_	•	_	•	_	•
Frequency	_	•	•	•	_	•
Energy	—	•	•	•	_	•
Reactive power	_	_	•	•	_	•
Effective power	—	•	•	•	_	•
Apparent power	_	_	•	•	_	•
Power factor	_	_	•	•	_	•
Neutral conductor monitor- ing	_	_	depends on model	depends on model	_	depends on model
Measurement per phase	•	•	•	•	_	•
Display						
Туре	LCD	LCD	TFT / 2"	LCD	LCD	LCD
Display can be rotated using software	—	_	•	-	—	—
Illustration can be set in vari- able manner	_	_	•	_	_	_
Sensors						
Integrated temperature sensor	—	_	•	_	_	—
Connections for external sensors	—	—	2	_	_	_
Switching						
Can be switched individually	—	—	—	_	٠	•
Switching status monitoring	—	—	—	_	0	0
Network						
Ethernet (10/100 MBit/s)	—	_	•	•	•	•
ModBus TCP/IP	_	_	-	0	0	0
HTTP	—	_	•	•	•	•
HTTPS	—	_	—	•	•	•
SSH	—	_	—	•	٠	•
DHCP	—	—	•	•	•	•
SMTP	—	_	—	•	•	•
SNMP	—	—	٠	•	•	•
Syslog	—	—	—	•	•	•
NTP	—	—	•	•	•	•
Alarm (SMTP, SNMP)	_	_	•	•	•	•

• yes – no / O optional

BlueNet Metered Plus / Monitored Plus / Managed



#### Mains voltage (V)

Displays the voltage of the incoming mains supply to which the power meter is connected.

## Frequency (Hz)

Current mains frequency

## Phase indicator (P)

Shows the phase (1, 2 or 3) currently being measured. Display moves automatically through the phases showing their respective measured values.

Mains voltage (V)

nected.

Current (A)

connected devices.

Displays the voltage of the incoming mains

supply to which the power meter is con-

The current now being drawn by the

## Power measurement (kW)

the phase angle into account. Power consumption

2.77 kW 230V 50 Hz 15°

P: 12,5A

1585,9kWh

## Phase angle

Displays the phase shift in the power network.

#### Current (A) The current now being

drawn by the connected devices.

## Total energy consumption (kWh)

The total energy consumption shown on the display is calculated taking the phase angle into account.

#### **BlueNet Monitored**



Power measurement (kW) The effective power drawn by the consumers, taking the phase angle into account. Power consumption of the con-

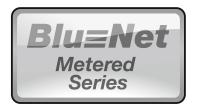
nected devices.

## Frequency (Hz) Current mains frequency

## Power factor

Displays the power factor.





The display for the BlueNet Metered series: See and evaluate the most important values at a glance.

The advan-	Current measurement				
tages at a	Voltage measurement				
glance	Phase angle measurement				
	• Effective power calculated with regard to phase				
	angle				
	<ul> <li>Frequency measurement</li> </ul>				
	BlueNet display				
	Accuracy class 1				

## BlueNet Metered (16 A / 230 V / 50 Hz)

- · Integrated current measurement up to 32 A (depending on version)
- · 3-digit current readout on illuminated LCD display
- Measurement precision +/- 1%
- $\cdot$  End caps riveted and do not open
- $\cdot$  Includes mounting brackets and screws
- · Plastic light grey, aluminium profile silver



Art. no.	Version	Dimensions (L x W x H)	
BlueNet N	letered		
integrated	ammeter, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right	t angle plug with earthing contact	
333.808	7 socket outlets with earthing contact	approx. 482.6 x 44 x 58	
333.810	8 IEC320 non-heating appliance socket outlets C13	approx. 482.6 x 44 x 58	LOCKABLE
333.862	7 IEC320 non-heating appliance socket outlets C19	approx. 482.6 x 44 x 58	
333.864	7 UTE socket outlets	approx. 482.6 x 44 x 58	
integrated	ammeter, 2.0 m H05VV-F 3G 1.00 mm ² , black, with CH	plug type 12	
333.0422	7 CH socket outlets type 13	approx. 482.6 x 44 x 58	+

## BlueNet Metered Plus (16 A / 230 V / 50 Hz)

· Integrated measurement of:

current, apparent power, voltage, frequency, phase angle and energy · Indication on illuminated LCD

- · Energy meter which can be reset (value is stored even if there is no power supply)
- Measurement precision +/- 1%
- · End caps riveted and do not open
- Includes mounting brackets and screws
- · Plastic light grey, aluminium profile silver



Art. no.	Version	Dimensions (L x W x H)	
BlueNet Metered Plus			
integrated power metering, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right angle plug with earthing contact			
329.213	6 socket outlets with earthing contact	approx. 482.6 x 44 x 58	
329.214	8 IEC320 non-heating appliance socket outlets C13	approx. 482.6 x 44 x 58	LOCKABLE
329.215	6 IEC320 non-heating appliance socket outlets C19	approx. 482.6 x 44 x 58	



329.213



329.214



329.215





The data centre's mains supply is monitored and remotely controlled from the comfort of your desk with BlueNet Network series products. BlueNet increases data centre availability, minimises down times and saves money.

The BlueNet Network series monitors current, voltage and power.

This allows resources to be planned efficiently and alarms to be issued in the event of faults.

# **BLUENET MONITORED**

## Power Distribution Units

- $\cdot$  Integrated measurement of current, voltage, frequency, effective-, apparent-, reactive power and power factor
- · Integrated Ethernet connection
- · Operated via web browser
- $\cdot$  Includes the following protocols : HTTP; SNMP
- · Integrated temperature sensor
- $\cdot$  Up to two sensors can be connected
- · Incredibly compact design (WxD: 44 mm x 47 mm)
- · Robust aluminium housing
- · High-resolution OLED display
- $\cdot$  Software can be used to turn the display to make it easier to read



## BlueNet Monitored PDU 1-phase (16 A / 230 V / 50 Hz)

Art. no.	Version	Dimensions	
BlueNet M	lonitored 1-phase		
2.0 m H05	/V-F 5G 2.50 mm ² , black, with right angle plug with earthing contac	t	
329.3009	6 socket outlets with earthing contact	482.6x44x47mm	
329.3010	8 IEC320 non-heating appliance socket outlets C13	482.6x44x47mm	LOCKABLE
329.3011*	6 IEC320 non-heating appliance socket outlets C13, 2 IEC320 non-heating appliance socket outlets C19	482.6x44x47mm	LOCKABLE

## BlueNet Monitored PDU 3-phase (3 x 16 A / 400 V / 50 Hz)

Art. no.	Version	Dimensions			
BlueNet Monitored 3-phase					
3.0 m H05\	V-F 3G 2.50 mm ² , black, with CEE plug 16A red				
329.3012	36 IEC320 non-heating appliance socket outlets C13, 6 socket outlets with earthing contact	1757,7x44x47mm	LOCKABLE		
329.3013	36 IEC320 non-heating appliance socket outlets C13, 6 IEC320 non-heating appliance socket outlets C19	1757,7x44x47mm	LOCKABLE		
329.3014	42 IEC320 non-heating appliance socket outlets C13	1675x44x47mm	LOCKABLE		

## BlueNet Monitored accessories

## Art. no. Description

BlueNet M	BlueNet Monitored accessories		
		329.3012	
329.3102	Temperature sensor		
329.3104*	Combined temperature and humidity sensor		
329.3105*	USB cable for connecting PDU directly to PC		

## **BLUENET MONITORED**

Upgrade modules

## BlueNet Monitored 19" upgrade modules (400 V / 50 Hz)

The BlueNet Monitored upgrade modules are used to upgrade intelligent modules in an existing power distribution system. Simple integration reduces the work and costs involved in installation to a minimum.

Art. no.	Input	Output	Dimensions (L x W x H)	
BlueNet M	BlueNet Monitored 19" upgrade module with integrated Ethernet connection			
329.3001*	Wago X-Com 3 phases 32A	Wago X-Com 3 phases 32A	482,6 x 44 x 47mm	
329.3003*	CEE red 3 phases 16A	3 IEC320 C19 16A	482,6 x 44 x 47mm	
329.3004	CEE red 3 phases 16A	CEE red 3 phases 16A	482,6 x 44 x 47mm	



* delivery time on request

# **BLUENET MONITORED PLUS**

Power Distribution Units

- $\cdot$  Integrated measurement of current; effective power; voltage; frequency and phase angle
- $\cdot$  Integrated Ethernet connection
- · Operated via web browser
- $\cdot$  Includes the following protocols: HTTP, HTTPS, SNMP, SMTP, NTP, SSH
- · Robust aluminium housing
- · Illuminated LCD

## BlueNet Monitored Plus PDU 1-phase (16 A / 230 V / 50 Hz)

Art. no. Version		Dimensions (L x W x D)		
BlueNet M	BlueNet Monitored Plus 1-phase			
19", 2.0 m	H05VV-F 3G 1.50 mm ² , black, with right angle plug with earthing	contact	1. 10 10 10 10 10 10 10 10 10 10 10 10 10	
329.600	6 socket outlets with earthing contact	482.6 x 44 x 199 mm		
329.601	8 IEC320 non-heating appliance socket outlets C13	482.6 x 44 x 199 mm	LOCKABLE	
329.602	6 IEC320 non-heating appliance socket outlets C19	482.6 x 44 x 199 mm		

## BlueNet Monitored Plus PDU 3-phase (3 x 16 A / 400 V / 50 Hz)

Art. no.	Version	Dimensions (L x W x D)	
BlueNet Mon	itored Plus 3-phase		
3.0 m H05VV-F 5G 2.5 mm ² , black, with CEE plug 16 A red			
329.615	9 IEC320 non-heating socket outlets C19	695 x 44 x 199 mm	
329.617	9 socket outlets with earthing contact	695 x 44 x 199 mm	
3.0 m H05VV-	F 5G 2.5 mm ² , black, with end sleeves		
329.616*	9 IEC320 non-heating socket outlets C19	695 x 44 x 199 mm	
329.618*	9 socket outlets with earthing contact	695 x 44 x 199 mm	

## BlueNet Monitored Plus PDU 3-phase (3 x 32 A / 400 V / 50 Hz)

In the 32 A variants of the Monitored Plus PDUs, per phase the 32 A are split over two groups of pots each using two MCBs.

Art. no. Version Dimension		Dimensions (L x W x D)	
BlueNet M	Ionitored Plus 3-phase		
3.0 m H05VV-F 5G 4 mm ² , black, with CEE plug 32A red			
329.604	24 IEC320 non-heating appliance socket outlets C13, 6 IEC320 non-heating appliance socket outlets C19	1713 x 44 x 207 mm	LOCKABLE
329.605	12 IEC320 non-heating appliance socket outlets C19	1202 x 44 x 207 mm	LOCKABLE
329.606	24 socket outlets with earthing contact	1713 x 44 x 207 mm	



BlueNet Monitored Plus, 19"

## **BLUENET SWITCHED**

## Power Distribution Units

- · Socket outlets can be switched individually
- · Safe zero-voltage switching
- · Integrated LED switching status check per port
- Integrated Ethernet connection
- · Operated via web browser
- $\cdot$  Includes the following protocols: HTTP, HTTPS, SNMP, SMTP, NTP, SSH
- $\cdot$  Robust aluminium housing

## BlueNet Switched PDU 1-phase (16 A / 230 V / 50 Hz)

	Art. no.	Version	Dimensions (L x W x D)
	BlueNet S	witched 1-phase	
	19", 2.0 m	H05VV-F 3G 1.50 mm ² , black, with right angle plug with earthing cc	ontact
LOCKABLE	329.700	8 IEC320 non-heating appliance socket outlets C13	482.6 x 44 x 199 mm
	329.702	6 socket outlets with earthing contact	482.6 x 44 x 199 mm
	Zero-U Spa	ace, 2.0 m H05VV-F 3G 1.50 mm ² , black, with right angle plug with	earthing contact
LOCKABLE	329.701	16 IEC320 non-heating appliance socket outlets C13	692 x 44 x 199 mm

#### BlueNet Switched PDU 3-phase (3 x 32 A / 400 V / 50 Hz)

In the 32 A variants of the Switched PDUs, per phase the 32 A are split over two groups of pots each using two MCBs.

Art. no.	Version	Dimensions (L x W x D)
BlueNet S	witched 3-phase	
3.0 m H05\	/V-F 5G 4 mm ² , black, with CEE plug 32A red	
329.703	24 IEC320 non-heating appliance socket outlets C13, 6 IEC320 non-heating appliance socket outlets C19	1713 x 44 x 207 mm
329.704	12 IEC320 non-heating appliance socket outlets C19	1202 x 44 x 207 mm
329.705	24 socket outlets with earthing contact	1713 x 44 x 207 mm

329.704

E-

L

L

LOCKABLE

# **BLUENET MANAGED**

Power Distribution Units

- $\cdot$  Socket outlets can be switched individually
- · Safe zero-voltage switching
- $\cdot$  Integrated LED switching status check per port
- · Integrated Ethernet connection
- · Operated via web browser
- $\cdot$  Integrated measurement of current, effective power, voltage, frequency and phase angle
- $\cdot$  Includes the following protocols: HTTP, HTTPS, SNMP, SMTP, NTP, SSH
- $\cdot$  Robust aluminium housing
- · Illuminated LCD

## BlueNet Managed PDU 3-phase (3 x 32 A / 400 V / 50 Hz)

In the 32 A variants of the Managed PDUs, per phase the 32 A are split over two groups of pots each using two MCBs.

Art. no.	Version	Dimensions (L x W x D)	
BlueNet M	lanaged 3-phase		
3.0 m H05	VV-F 5G 4 mm ² , black, with CEE plug 32A red		
329.800	24 IEC320 non-heating appliance socket outlets C13, 6 IEC320 non-heating appliance socket outlets C19	1713 x 44 x 207 mm	LOCKABLE
329.801	12 IEC320 non-heating appliance socket outlets C19	1202 x 44 x 207 mm	
329.802	24 socket outlets with earthing contact	1713 x 44 x 207 mm	

329.802

00000000 11 10000000

## ACCESSORIES

Mounting brackets for standard 1 U profile

 $\cdot$  The brackets are screwed to the PDU end cap using a screw connection (screws are provided).

Art. no. Version



1 U mounting brackets		
19", Zero-U Space		
940.142 · Mounting brackets left and right		
> 1 U mou	nting brackets	
> 1 U mou 19", Zero-L	-	

## Mounting brackets for VM profile variant / Zero U-Space installation

- $\cdot$  Power strip is fixed by insertion into the profile groove provided.
- $\cdot$  No additional screws required.

1 U mounting brackets

Version

Art. no.



19", Zero-U Sp	pace
940.141	Mounting brackets left and right
1 U mounting	brackets
Zero-U Space	
940.143	Mounting brackets left and right
1 U link	
Zero-U Space	
800.0053	· For connecting two vertically fitted PDUs
	940.141 <b>1 U mounting</b> Zero-U Space 940.143 <b>1 U link</b> Zero-U Space



**Fixing brackets in sheet steel for 1 U:** 4 adjustable screw fastenings, each can be rotated 90° degrees, vertical installation also possible.

## Locking clip

Art. no.	Version	
Locking clips		
940.103	· Locking clip, red, for IEC 320 C13 non-heating appliance socket outlets, pack of 12.	12

## Connecting cable for interlock

Art. no.	Version	
Connecting cable for interlock		
356.119	· Connecting cable, 0.5 m, black, H05VV-F 3G 1.0 mm ²	
	· End 1: moulded non-heating appliance plug IEC C14	
	· End 2: moulded non-heating appliance socket outlet IEC C13	
356.120	· Connecting cable, 1.0 m, black, H05VV-F 3G 1.0 mm ²	
	· End 1: moulded non-heating appliance plug IEC C14	
	· End 2: moulded non-heating appliance socket outlet IEC C13	

## Locking cap IEC320 C13 & C19

Connecting	cable for interlock	
800.0050	C19 locking caps, 10 items incl. unlocking tool	
800.0051	C13 locking caps, 10 items incl. unlocking tool	
800.0052	Unlocking tool for locking cap	

## Shift inhibitor

 $\cdot$  To protect against unintentional actuation of miniature or residual current circuit breakers

Art. no.	Version
Shift inhibitor	
940.140	• Actuation lock for circuit breakers and switches, 1 pole, to protect against unauthorised or dangerous activation of the switch lever





# **Bachmann Electrics**

## SOCKET OUTLETS

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# ENERGY SAVING WITH BACHMANN PRODUCTS

Less power consumption = less harmful CO₂ emissions + lower energy costs

## Did you know that electricity consumption:

- is the cause, through emissions from power stations, of almost half of all energy-related greenhouse gas emissions in Germany? (Resulting from burning coal, oil and gas)
- by electrical equipment in standby mode or on hold, if extrapolated for the whole of Germany, amounts to more than 14 billion kilowatt-hours per year? This roughly represents the output of two nuclear power stations.

## So what can we do?

 At home, by cutting idle power losses such as standby currents drawn by TVs, satellite receivers, hi-fi systems, PCs, printers etc, we can save 6 TWh and €810 million per year. Per household this amounts to a saving of € 75-100 per year.

> In industry, business and the services sector, by reducing idle power losses (standby currents drawn by IT and communications equipment – PCs, monitors, printers, copiers etc.) we can save 4 TWh and €204 million per year.

> > Source: German Department of the Environment (Umweltbundesamt): "Stromsparen ist wichtig für den Klimaschutz" ['The importance of energy-saving for climate protection'], 22.8.2007

The German government also states in its specific energy and climate-protection programmes that measures must be put in place to save energy wastage from idle equipment, on both environmental and economic grounds. To help contain the rising energy consumption, Bachmann offers a range of products with the potential for power saving. As a rule, a payback time of between 1 and 2 years is possible for efficient devices.

## Automatic switchoff

While power outlets with switches are mostly well suited to energy saving, since they can prevent the connected equipment being left in standby mode, unfortunately people often forget to switch them off. The automatic switchoff device saves energy automatically, using intelligent electronics.

- Automatically isolates all devices connected to slave sockets (e.g. PC, TV etc) from the supply 30 seconds after the master device is shut down/switched off.
- Power can be restored simply by pressing the button.
- Optional remote-controlled relay (mounts simply on the desk/table top)
- Energy saving per workstation (PC, monitor and printer) up to 200 kWh/year



~40€

## Master & slave

Master and slave p. 199

Energy can also be automatically saved using a master and slave power strip. When the device plugged into the master socket is switched off or on, all the devices connected to the slave sockets (e.g. PC, TV) are automatically switched off or on accordingly.

A particularly convenient feature is that the master-and-slave electronics is also suitable for master appliances with remote control.

- · Automatically isolates all slave devices from supply once the master device has been shut down/switched off
- · Automatically switches all slave devices on once master device has be switched on.
- Integral LED indicates switching status
- Energy saving per workstation (PC, monitor and printer) up to 150 kWh/year

## Timer switch

Numerous appliances both at home and at work can be used significantly more efficiently with a simple-to-operate timer switch. The timer switch never forgets, and so the user need not be concerned with switching on and off.

· Switches connected devices automatically on and off within the preset time window.

## **Energy meter**

Identifying "power guzzlers" is essential if monitoring and reduction of energy consumption is to be effective. This energy consumption meter gives a complete and clear overview of which device or group of devices is consuming excessive power. It measures energy consumption (kWh) and current effective power (W), thus enabling the desired savings to be made.

· For monitoring energy consumption and advance energy cost calculation for the devices connected

These figures do not refer to the product shown specifically and are not a part of the product offer but are provided solely for purposes of comparison.

· With plug adaptor for mobile use with different consumers

GREEN

## Monitor Scanner Printer PC GREEN

~25€ per year

#### Timer switches p. 258

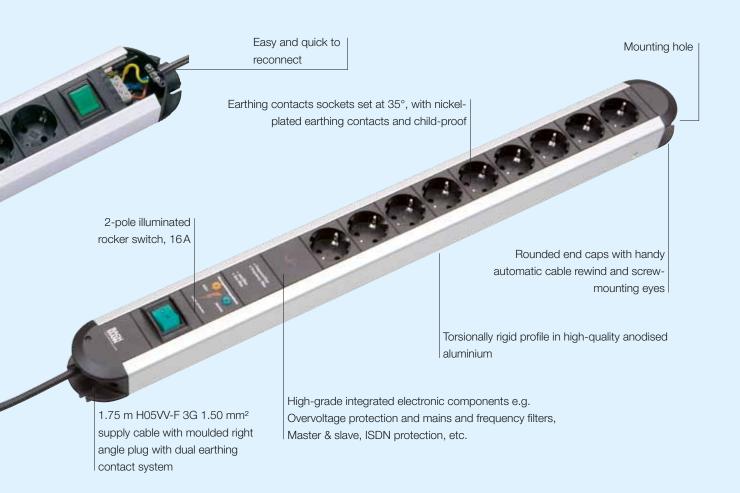
Energy meters p. 257





**CONNECTUS** Automatic switchoff p. 200

bachmann.com / 191



# PRIMO Power strips for professionals.

#### The advan-• Exclusive to the specialist trade tages at a

- Professional quality
- glance • Full range
  - Attractive modern design
  - Tested components
  - Halogen and PVC-free socket recesses

Max. 16A/3680W



· 1.75 m supply cable: H05W-F 3G 1.50 mm², socket inserts black, with moulded right angle plug with earthing contact

Art. no.	Version	Dimensions: (L x W x H)
PRIMO		
Without sw	vitch	
331.000	· 3 socket outlets with earthing contact, black	• approx. 304 x 71 x 46 mm
331.010	6 socket outlets with earthing contact, black	• approx. 431 x 71 x 46 mm
331.011	9 socket outlets with earthing contact, black	· approx. 560 x 71 x 46 mm
331.012	· 12 socket outlets with earthing contact, black	· approx. 690 x 71 x 46 mm

PRIMO				
1x switch, green				
330.070	· 3 socket outlets with earthing contact, black	· approx. 304 x 71 x 54 mm		
330.071	· 6 socket outlets with earthing contact, black	· approx. 431 x 71 x 54 mm		
330.072	· 9 socket outlets with earthing contact, black	· approx. 560 x 71 x 54 mm		
330.073	$\cdot$ 12 socket outlets with earthing contact, black	· approx. 690 x 71 x 54 mm		

	PRIMO, ox eartning contact		
	1x overvolt	age protection, without switch	
331.014 · 6 socket outlets with earthing contact · approx. 474 x 71 x 47		• approx. 474 x 71 x 47 mm	
		<ul> <li>Overvoltage and transient protection</li> </ul>	
		· Discharge current 6.5 kA	

PRIMO, 6	PRIMO, 6x earthing contact			
1x overvol	1x overvoltage protection, 1x switch, green			
331.013	6 socket outlets with earthing contact     Overvoltage and transient protection	• approx. 474 x 71 x 54 mm		
	<ul> <li>Discharge current 6.5 kA</li> <li>Switch, green</li> </ul>			
PRIMO				

	1x overvoltage protection + mains and frequency filters, without switch		
Overvoltage protection + mains and frequency filters			
331.006 · 6 socket outlets with earthing contact · approx. 515 x 71 x 47		· approx. 515 x 71 x 47 mm	
331.007		· 9 socket outlets with earthing contact	• approx. 645 x 71 x 47 mm

	DI	Μ	$\mathbf{n}$
- P I	-11	IVI	U
	- 11	1.4	-

1x overvoltage protection + mains and frequency filters, 1x switch, green  $\cdot$  Overvoltage protection + mains and frequency filters  $\cdot$  Switch, green 331.071  $\cdot$  6 socket outlets with earthing contact · approx. 560 x 71 x 54 mm 331.072 · 9 socket outlets with earthing contact

# · approx. 690 x 71 x 54 mm









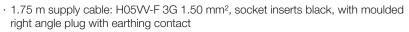


#### Overvoltage protection with filter

Overvoltage protection - conforms to DIN VDE 0620-1:-2002-01, EN 61643-11:08-2007, type 3, discharge current 6.5 kA, response time < 25 nS. Suitable for 16A (miniature fuse on request) with varistors, temperature fuse, gas discharge arrester, visual LED function and failure indicator (acoustic signalling also available on request).

Mains and frequency filters - conforming to VDE 0565-3:05-2006 for voltage peaks up to 30 MHz, damping diagram on data sheet.

## Max. 16A/3680W



	Art. no.	Version	Dimensions: (L x W x H)
	PRIMO, 6x	earthing contact	
	1x overvolt	age protection + mains and frequency filters, 1x ISDN pro	tection, 1x green switch
Concernance Concernation	331.074	<ul> <li>6 socket outlets with earthing contact</li> <li>Overvoltage protection + mains and frequency filters</li> <li>ISDN overvoltage protection for 1x ISDN input, 3x ISDN outputs</li> </ul>	• approx. 645 x 71 x 54 mm



PRIMO, 1	PRIMO, 1 + 6x earthing contact			
Master & s	Master & slave			
332.071	<ul> <li>1 + 6 socket outlets with earthing contact</li> <li>Adjustable threshold value</li> </ul>	• approx. 573 x 71 x 47 mm		
PRIMO, 1	PRIMO, 1 + 6x earthing contact			
Master & s	Master & slave, with overvoltage protection + mains and frequency filters			

 Master & slave, with overvoltage protection + mains and frequency f

 333.071
 · 1 + 6 socket outlets with earthing contact

 · Adjustable threshold value

 $\cdot$  Overvoltage protection + mains and frequency filters

· approx. 695 x 71 x 47 mm



· 1.75 m supply cable: H05VV-F 3G 1.50 mm², with moulded right angle plug with earthing contact

Art. no. Version	Dimensions: (L x W x H)	
PRIMO, 5x earthing contact		
85 mm socket outlet spacing, without switch		
· Ideal for mains adaptor plugs		0
331.032 · 5 socket outlets with earthing contact, black	· approx. 515 x 71 x 46 mm	
PRIMO, 6x earthing contact		
IT red, without switch		
331.040 · 6 red socket outlets with earthing contact, for IT circuits	· approx. 390 x 71 x 46 mm	

PRIMO, 6>	PRIMO, 6x earthing contact		
1x residual current device			
331.035	· 6 socket outlets with earthing contact	• approx. 516 x 71 x 83 mm	
	· 30 m A residual current device		
	· Tripping time < 30 mS		
	· 2-pole		



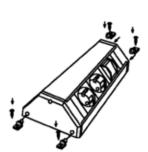
#### Overvoltage protection with filter

Overvoltage protection – conforms to DIN VDE 0620-1:-2002-01, EN 61643-11:08-2007, type 3, discharge current 6.5 kA, response time < 25 nS. Suitable for 16A (miniature fuse on request) with varistors, temperature fuse, gas discharge arrester, visual LED function and failure indicator (acoustic signalling also available on request).

Mains and frequency filters – conforming to VDE 0565-3:05-2006 for voltage peaks up to 30 MHz, damping diagram on data sheet.



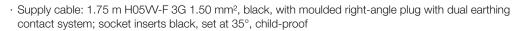
# **DUO** High-grade power strip.



## The advan- | • Installation kit with fixing screws included

- tages at a
- Highly ergonomic power strip
- glance Clear connection system

## Max. 16A/3680W





Art. no.	Version	Dimensions: (L x W x H)	
DUO 6x earthing contact		Aluminium	
1x switch			
335.002 · 6 socket outlets with earthing contact, set at 35° · 240 x 116 x 60 mm			
	· 1x switch, green		



			Aluminium
1x overvoltage protection, 2x switch			
335.009	$\cdot$ 12 socket outlets with earthing contact, set at 35°	· 405 x 116 x 60 mm	
	· 2x switch, green; one switch per side		

DUO 6x earthing contact		Aluminium	
1x overvoltage protection with mains and frequency filters, 1x switch			
335.007	$\cdot$ 6 socket outlets with earthing contact, set at 35°	· 325 x 116 x 60 mm	
	· 1x switch, green		



2-pole illuminated rocker switch, 16 A

child-proof



Visual failure indicator for overvoltage protection (with optional mains and frequency filters)

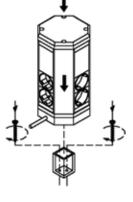


Body in high-quality anodised aluminium

1.75 m H05VV-F 3G 1.5 mm² supply cable with moulded right angle plug with dual earthing contact system

# COMPACT Socket tower.

The advan-	Ideal for large number of plugs in limited space
tages at a	Attractive design
glance	<ul> <li>Mounting accessories included</li> </ul>



Max. 16A/3680W

60

· Supply cable: 1.75 m H05VV-F 3G 1.50 mm², black, with moulded right-angle plug with dual earthing contact system; socket inserts black, set at 35°, child-proof

Dimensions: (L x W x H)	
	Aluminium
• 116 x 116 x 179 mm	

COMPACT 12x earthing contact			Aluminium
1x switch			
334.001	$\cdot$ 12 socket outlets with earthing contact, set at 35°	· 116 x 116 x 222 mm	
	· 1x switch, green		

COMPACT	9x earthing contact	Alur
1x overvolt	age protection with mains and frequency filters, 1x switch	
334.003	$\cdot$ 9 socket outlets with earthing contact, set at 35°	· 116 x 116 x 222 mm
	$\cdot$ Overvoltage protection with mains and frequency filters	
	· 1x switch, green	





ninium



# **CONNECTUS** Modular plastic power strip.

#### The advan-

tages at a

glance

Very good value for money

- Exclusive to the specialist trade
- Wide range
- High-grade technology
- Tested components
- Halogen and PVC-free socket recesses

Max. 16A/3680W



· Supply cable: 2.0 m H05VV-F 3G 1.50 mm², black

Art. no.	Version	Dimensions: (L x W x H)
CONNEC	TUS	
1x rocker	switch, orange	
330.100	<ul> <li>4 socket outlets with earthing contact</li> </ul>	· approx. 355 x 72 x 49 mm
330.101	6 socket outlets with earthing contact	· approx. 440 x 72 x mm
330.102	9 socket outlets with earthing contact	• approx. 570 x 72 x 49 mm
330.103	· 12 socket outlets with earthing contact	· approx. 695 x 72 x 49 mm
CONNEC	TUS 6x earthing contact	
1x overvol	tage protection, 1x orange rocker switch	
330.104	6 socket outlets with earthing contact	• approx. 480 x 72 x 49 mm
	Overvoltage protection	
	Visual function and fail indicator	
CONNEC	TUS 6x earthing contact	
1x overvol	tage protection + mains and frequency filters, 1x orange ro	ocker switch
330.105	· 6 socket outlets with earthing contact	• approx. 568 x 72 x 49 mm
	$\cdot$ Overvoltage protection + mains and frequency filters	
	· Visual function and fail indicator	
CONNEC	TUS 1 + 4x earthing contact	
Master & s	slave	
330.106	· 1 master + 4 slave socket outlets with earthing contact	• approx. 480 x 72 x 42 mm
	· Adjustable threshold value	
CONNEC	TUS 1 + 4x earthing contact	
Master & s	slave, with overvoltage protection + mains and frequency fi	ilters
330.107	$\cdot$ 1 master + 4 slave socket outlets with earthing contact	· approx. 610 x 72 x 49 mm
	· Adjustable threshold value	
	$\cdot$ Overvoltage protection + mains and frequency filters	
		1

 $\cdot$  Visual function and fail indicator





200 / bachmann.com



## · Supply cable: 2.0 m H05VV-F 3G 1.50 mm², black

Art. no. Version	Dimensions: (L x W x H)	
CONNECTUS		18.33
1x rocker switch, orange		
330.100F · 4 UTE socket out	s · approx. 355 x 72 x 49 mm	10 2
330.101F · 6 UTE socket out	ts · approx. 440 x 72 x 49 mm	

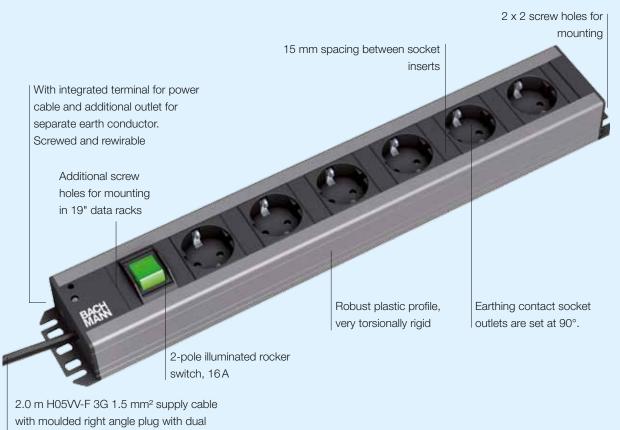
CONNECT	NNECTUS 6x UTE socket outlets		
1x overvoltage protection + mains and frequency filters, 1x orange rocker switch			
330.104F          • 6 UTE socket outlets         · Overvoltage protection + mains and frequency filters         · Visual function and fail indicator           · approx.		• approx. 480 x 72 x 49 mm	
CONNECTUS 1 + 4x UTE socket outlets			
Master & slave			
330.106F	1 master + 4 slave socket outlets with earthing contact     Adjustable threshold value	• approx. 480 x 72 x 49 mm	

# Constanting

#### Overvoltage protection with filter

Overvoltage protection – conforms to DIN VDE 0620-1:-2002-01, EN 61643-11:08-2007, type 3, discharge current 6.5 kA, response time < 25 nS. Suitable for 16A (miniature fuse on request) with varistors, temperature fuse, gas discharge arrester, visual LED function and failure indicator (acoustic signalling also available on request).

Mains and frequency filters – conforming to VDE 0565-3:05-2006 for voltage peaks up to 30 MHz, damping diagram on data sheet.



earthing contact system

# TRADESMAN'S STRIP

Robust, professional quality plastic strip.

With increased distance between socket outlets, allowing easy positioning of mains adaptor plugs and operating equipment.

The advan-	Modern, technical design	
tages at a	End caps with additional screw holes for mounting	
glance	in data racks	
	Additional earth conductor connection possible	
	without opening the housing	
	<ul> <li>Strips available in 19" dimensions</li> </ul>	

Tradesman's strip set at 90°



- $\cdot$  Supply cable: 2.0 m H05VV-F 3G 1.50 mm², black, with right angle plug with earthing contact
- $\cdot$  Socket inserts, black, 15 mm spacing between sockets

Art. no.	Version	Dimensions: (L x W x H)	
Power stri	ip 90°		
Without sw	vitch		
300.000	6 socket outlets with earthing contact	· approx. 445 x 74 x 45 mm	19"
300.001	<ul> <li>9 socket outlets with earthing contact</li> </ul>	· approx. 617 x 74 x 45 mm	09 399
300.002	· 12 socket outlets with earthing contact	· approx. 790 x 74 x 45 mm	9999 999

1x rocker s	1x rocker switch, green		
300.003	· 6 socket outlets with earthing contact	· approx. 445 x 74 x 45 mm	
300.004	· 9 socket outlets with earthing contact	· approx. 617 x 74 x 45 mm	
300.005	· 12 socket outlets with earthing contact	· approx. 790 x 74 x 45 mm	

1x overvolt	age protection, 1x rocker switch, green		
300.011	· 6 socket outlets with earthing contact	• approx. 490 x 74 x 45 mm	
1x overvo	tage protection + mains and frequency filters, 1x rocker s	witch, green	2
300.012	· 6 socket outlets with earthing contact	• approx. 575 x 74 x 45 mm	



Overvoltage protection – conforms to DIN VDE 0620-1:-2002-01, EN 61643-11:08-2007, type 3, discharge current 6.5 kA, response time < 25 nS. Suitable for 16A (miniature fuse on request) with varistors, temperature fuse, gas discharge arrester, visual LED function and failure indicator (acoustic signalling also available on request).

Mains and frequency filters – conforming to VDE 0565-3:05-2006 for voltage peaks up to 30 MHz, damping diagram on data sheet.

Tradesman's strip set at 35°

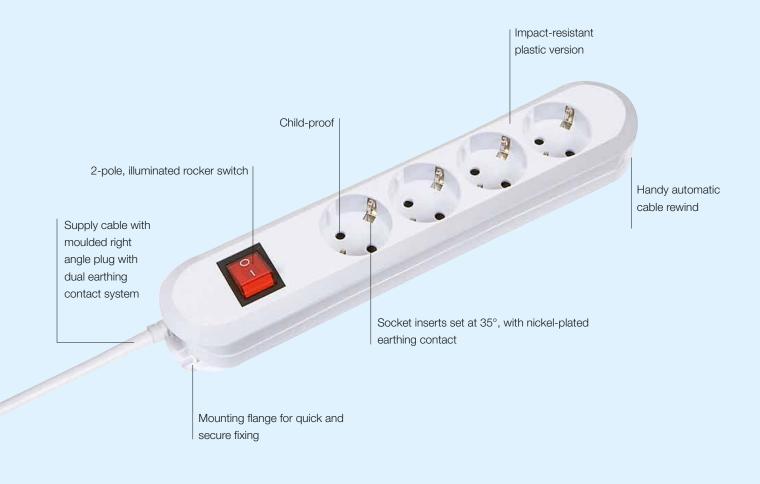


• Supply cable: 2.0 m H05VV-F 3G 1.50 mm², black

 $\cdot$  Screwing dimension 465 mm, socket outlets set at 35°

Art. no.	Version	Dimensions: (L x W x H)	0000
Power str	rip 35°		
Without sv	witch		3
300.006	$\cdot$ 8 socket outlets with earthing contact	• approx. 445 x 74 x 45 mm	19"
1x rocker	switch, green		1000
300.007	· 7 socket outlets with earthing contact     · In neutral PVC pouch	• approx. 445 x 74 x 45 mm	19" 1000000

19'



# **SMART** Desk socket outlet in specialist trade quality.

#### The advan-

tages at a

glance

## Specialised trade design

• Exclusive to the specialist trade

#### For professional use

- Tested quality
- Product variants:
- Screwed and rewirable
- Overvoltage protection

## Max. 16A/3680W

385.270

· White

 $\cdot$  3x socket outlet with earthing contact

(e)

· Supply cable: H05VV-F 3G 1.50 mm²

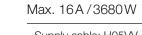
Art. no. Version	Unit
SMART (not rewirable)	Dimensions: approx. 185 x 56 x 41 mm
1.5 m supply cable, screwed (single use screws), without switch	
· 3 earthing contact socket outlets, child-proof	
387.170 · Black	20 items
387.270 · White	20 items
3.0 m supply cable, screwed (single use screws), without switch	
· 3 earthing contact socket outlets, child-proof	
387.171 · Black	20 items
387.271 · White	20 items
5.0 m supply cable, screwed (single use screws), without switch	
· 3 earthing contact socket outlets, child-proof	
387.172 · Black	15 items
387.272 · White	15 items



Art. no.	Version	Unit
SMART (re	ewirable)	Dimensions: approx. 185 x 56 x 41 mm
1.5 m supp	y cable, screwed (reusable screws), without switch	
· 3 earthing	contact socket outlets, child-proof	
388.170	· Black	20 items
388.270	· White	20 items
3.0 m supp	ly cable, screwed (reusable screws), without switch	
· 3 earthing	contact socket outlets, child-proof	
388.171	· Black	20 items
388.271	· White	20 items
388.471	• Brown	20 items
388.371	·Red	20 items
5.0 m supp	ly cable, screwed (reusable screws), without switch	
· 3 earthing	contact socket outlets, child-proof	
388.172	· Black	15 items
388.272	· White	15 items
Without su	pply cable, screwed (reusable screws), without switch	
· 3 earthing	contact socket outlets, child-proof	
385.170	· Black	20 items



20 items



I 🗖







Supply cat	ole: H05VV-F 3G 1.50 mm ²	
Art. no.	Version	Unit
	earthing contact	Dimensions: approx. 288 x 56 x 41 m
	y cable, screwed (reusable screws), rewirable, without s	witch
-	contact socket outlets, child-proof	
381.121K	· Black	20 items
381.221K	· White	20 items
1.5 m suppl	y cable, 1 x switch, screwed (reusable screws), rewirable	e
· 4 earthing	contact socket outlets, child-proof	
381.130K	· Black	20 items
381.230K	·White	20 items
381.430K	· Brown	20 items
Without sup	ply cable, screwed (reusable screws), rewirable	
· 4 earthing	contact socket outlets, child-proof	
381.223K	· White, without switch	20 items
SMART 6x	earthing contact	Dimensions: approx. 370 x 56 x 41 m
	age protection, 1x switch, 1.5 m supply cable, screwed (	
	contact socket outlets, child-proof	
0	e protection consisting of: 2 varistors, nominal arrester cur	rent 6.5kA, 16A. 3680W.
0	e protection, optical fail indicator	
381.2501K	·White	20 items
	earthing contact	Dimensions: approx. 288 x 56 x 41 m
	y cable, screwed (reusable screws), rewirable, without s	witch
-	contact socket outlets, child-proof	00 items
381.147K 381.247K	· Black · White	20 items 20 items
301.247N		20101115
3.0 m suppl	y cable, screwed (reusable screws), rewirable, without s	witch
· 6 earthing	contact socket outlets, child-proof	
381.148K	· Black	20 items
381.248K	· White	20 items
5.0 m suppl	y cable, screwed (reusable screws), rewirable, without s	witch
	contact socket outlets, child-proof	
381.149K	·Black	15 items
381.249K	· White	15 items
		,
•	ply cable, screwed (reusable screws) rewirable, without contact socket outlets, child-proof	Switch
381.146K	Black	20 items
381.246K	· White	20 items
001.2401	- Winto	2010113
1.5 m suppl	y cable, 1 x switch, screwed (reusable screws), rewirabl	e
· 6 earthing	contact socket outlets, child-proof	
381.150K	·Black	20 items
381.250K	· White	20 items
381.450K	- Brown	20 items
3.0 m suppl	y cable, 1x switch, screwed (reusable screws) rewirable	
· 6 earthing	contact socket outlets, child-proof	
381.151K	·Black	20 items
381.251K	· White	20 items
5.0 m suppl	y cable, 1 x switch, screwed (reusable screws), rewirabl	•
	contact socket outlets, child-proof	<del>.</del>
-	Black	15 items
381.152K		I DIEUS

Max. 16A/3680W 💿 🚺	
· Supply cable: H05VV-F 3G 1.50 mm ² , white	
Art. no. Version	Unit
SMART 3x UTE Dimensions	: approx. 185 x 56 x 41 mm
1.5 m supply cable, screwed (reusable screws), rewirable, without switch	
· 3 UTE, child-proof	
388.270F · White	20 items
3.0 m supply cable, screwed (reusable screws), rewirable, without switch	
· 3 UTE, child-proof	
388.271F · White	20 items
	: approx. 340 x 56 x 41 mm
1.5 m supply cable, 1 x switch, screwed (reusable screws), rewirable, child-proof	
· 6 UTE, child-proof	
381.250F · White	20 items
3.0 m supply cable, screwed (multi-use), rewirable, child-proof, 1x overvoltage prot	ection, 1x switch
· 6 UTE, child-proof	
$\cdot$ Overvoltage protection consisting of: 2 varistors, nominal discharge current 6.5 kA, 10	6A,
3600 W, temperature fuse and visual fail indicator	
381.2512K · White	20 items
381.2507K · Black	20 items





20 items

20 items

## Screw mounting for SMART power strips

1.5 m supply cable, screwed (reusable screws), rewirable

3.0 m supply cable, screwed (reusable screws), rewirable

· 6 UTE, child-proof
 381.247F · White

· 6 UTE, child-proof 381.248F · White

 $\cdot$  Attaches to desk/table with screw mounting, e.g. on the edge of a desk

 $\cdot$  Can be positioned lengthwise or crosswise

Art. no.	Version	Unit	
SMART de	sk attachment		
For all rewin	rable (reusable screws) power strips, plastic version		inning and in the second s
919.173	· Black	1 item	0 2
919.273	·White	1 item	

## Max. 16A/3680W

## · Supply cable: H05VV-F 3G 1.50 mm²









Art. no. Version		Unit
3 x earthing contact		
Angled plug set at 45°, without switch		
3 earthing contact socket outlets, non child-proof		
387.270S · White, supply cable 1.5 m		20 items
387.271S · White, supply cable 3.0 m		20 items
Angled plug, set at 45°, 1 x switch, red		
3x earthing contact socket outlets, child-proof		
384.270S · White, supply cable 1.5 m		20 items
6 x earthing contact		
Angled plug set at 45°, without switch		
6x earthing contact socket outlets, child-proof		
381.241S · White, supply cable 1.5 m		20 items
381.141S · Black, supply cable 1.5 m		20 items
	·	
Angled plug set at 45°, 1x switch, red		



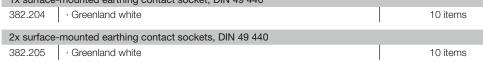
## Export versions (since a cable cross-section of 1.0 mm² is not permitted in Germany).



Art. no. Version	Unit
3x earthing contact	
1.4 m supply cable H05VV-F 3G 1.00 mm², with right angle plug and set at 45°, wi	thout switch
$\cdot$ 3 earthing contact socket outlets, non child-proof	
384.370S · White	20 items
$1x\ \text{red}$ switch, 1.4 m supply cable H05VV-F 3G 1.00 mm², with right angle plug and	d set at 45°
$\cdot$ 3 earthing contact socket outlets, non child-proof	
384.371S · White	20 items
6x earthing contact	
1.4 m supply cable H05VV-F 3G 1.00 mm², with right angle plug and set at 45°, with right angle plug and set at 45°.	thout switch
$\cdot$ 6 earthing contact socket outlets, child-proof	
381.340S · White	20 items
6x earthing contact	
$1x\ \text{red}$ switch, 1.4 m supply cable H05VV-F 3G 1.00 mm², with right angle plug and	d set at 45°
$\cdot$ 6 earthing contact socket outlets, child-proof	
381.343S · White	20 items

Max. 10/16A/250V~ 🜍 💻

Art. no.	Version		Unit	
Power strip			'	Cal.
	y cable H05VV-F 3G 1.50 mm ² , screwed, rewirable	with earthing contac	ct plug	
· 2 socket ou	utlets with earthing contact			
380.270	·White		25 iten	ns
1.5 m suppl	y cable H05VV-F 3G 1.50 mm ² , screwed, rewirable	with earthing contac	ct right angle plug	
	utlets with earthing contact	0	0 0 0	
380.271	·White		25 iten	ns 🗸 🗸 🗸
N.A. 11 ¹ - 1 1				
iviuitipie pil	ug adaptor ( 🔊 💻			
Art. no.	Version		Unit	
Multiple plu	ug adaptor, max. 2.5 A/250 V ~			
2 Europlug				
921.271	· White		30 iten	ns
			•	
Curface m	ounted standard EDCE carthing	_		
	ounted standard ERGE earthing cket outlets, max. 16A/250V~	<b>()</b>		
	ckel ouliels, max. TOA7230V~			
1			1	
Art. no.	Version		Unit	
Surface-mo	ounted standard ERGE socket outlet with earthin	ig contact		C. C.
1x surface-r	mounted earthing contact socket, DIN 49 440			
000 004			10 34000	



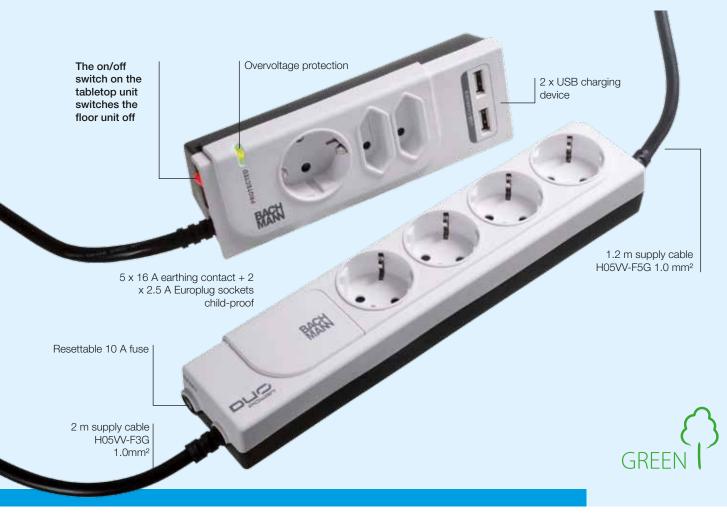




Powercubes look good on any desk and combine modern design with practical versatility. They combine a range of functions in a compact, handy and space-saving form.

The advan-	• Supply cable: 2.0m H05VV-F 3G 1.00 mm ² , black, with right angle plug with earthing
tages at a	contact
glance	• Dimensions (L x W x H): 105 x 120 x 95mm
	• Two fixed sockets and one socket moveable through 90°, with overvoltage protection
	• Overvoltage protection and earthing indicators: the green LED shows that the power
	network is securely earthed. The red LED indicates that the voltage protection unit is
	functioning correctly.
	• X3 multi-stage metal-oxide varistor absorbs power pulses and thus offers protection
	against high-energy voltage peaks.

	Art. no.	Version	Unit
	Powercub	e	
	Powercube	e, 3x earthing contact sockets, 10A/230V	
	335.050	· Resettable 10A fuse	1 item
		Headphone and microphone jacks	
		Overvoltage protection indicator	
		Earthing indicator	
		· X3 multi-stage metal oxide varistor	
		High-frequency capacitor for noise reduction	
100		Safety switch-off system	
		· Child-proof	
	Powercube	Protection, 3x earthing contact sockets, 10A/230V	1
4	335.051	Additional features of Powercube Protection:	1 item
Call Call		· Telephone, fax, modem and network protection	
		· USB 2.0 charging device with 2 outlets	



## DUO POWER 16A and 2.5 A / 250V

The on/off switch on the tabletop unit switches the floor unit off. This allows devices plugged into the floor unit (e.g. monitor, printer, PC etc) to be isolated and standby currents avoided, while the tabletop unit continues to supply power e.g. for charging a mobile phone.

The advan-	<ul> <li>2.0 m supply cable</li></ul>	
tages at a	H05VV-F3G 1.0mm ² <li>5 x 16 A earthing contact</li>	
glance	+ 2 x 2.5 A Europlug sockets <li>Child-proof</li> <li>Resettable 10 A fuse</li> <li>2 x USB charging device</li> <li>Overvoltage protection</li>	
Art. no. Versio	on 💮 💻	

Unit

S

1 item

Tabletop unit

1.000 133
-37

 $\bigcirc$ 

5 x 16 A ea	rthing contact + 2 x 2.5 A Europlug socket / 250 V
335.055	Duo Power with overvoltage protection



# GARDEN POSTS

Practical options for the garden.

The advan-	<ul> <li>Earthing contact socket outlets, splashproof to IP44</li> </ul>	
tages at a	Connecting block for connecting external supply cables for outdoor use;	
glance	minimum cable cross-section 1.5mm ² , maximum 3.0mm ²	
	<ul> <li>Power posts for the garden in weatherproof polystone</li> </ul>	
	<ul> <li>Granite look fits in to garden setting</li> </ul>	
	<ul> <li>Allows easy use of garden equipment, lighting and irrigation systems</li> </ul>	
	• The timer model lets you programme electrical garden equipment to switch	
	on and off at specified times. Thus for example the garden can be regularly	
	watered even when nobody is at home.	
	• The model with the lamp provides a cosy atmosphere for garden parties or	
	illuminates the way to the door of the house.	

Garden posts 🕄

Art. no.	Version	
Garden po	ost 4x earthing contact	160 x 160 x 280 mm
1x splash v	water protection	
394.170	· 4x IP44 earthing contact sockets for outdoor use	

Garden po	ost with timer and 2 x earthing contact	160 x 160 x 280 mm
1x splash	vater protection, 1x timer	
394.171	• 2x IP44 earthing contact sockets for outdoor use     • Mechanical 24 h timer	

Garden po	st with lamp and 2x earthing contact	150 x 150 x 460 mm
1x splash v	vater protection, 1x lamp	
394.172	· 2x IP44 earthing contact sockets for outdoor use	
	· E27 holder for energy-saving lamp, max. 11 W	

 $\bigcirc$ Garden socket with earth spike, 16A/230V~, IP44

Art. no.	Version		Unit
Garden so	cket outlet		
2.0 m cable	e: H05RR-F 3G 1.50 mm ² with central plug with earthing contact		
394.180	<ul> <li>2x earthing contact socket outlets 230V~</li> <li>With hinged lid, splashproof to IP44</li> <li>Black</li> </ul>		1 item
2.0 m cable: H07RN-F 3G 1.50 mm ² with central plug with earthing contact			
394.182	<ul> <li>4x earthing contact socket outlets 230V~</li> <li>With hinged lid, splashproof to IP44</li> <li>Black</li> </ul>		1 item

Garden outlet, 3x earthing contact sockets			
2.0 m cable: H07RN-F 3G 1.50 mm ² with central plug with earthing contact			
394.175	· 3x earthing contact socket outlets 230 V~	1 item	
	· With hinged lid, splashproof to IP44		
	·Green		

Garden outlet with remote control		
2.0 m cable	e: H07RN-F 3G 1.50 mm ² with central plug with earthing contact	
394.178	· 2x earthing contact socket outlets 230 V~	1 item
	· 433.92 MHz remote control	
	· With hinged lid, splash-proof	
	·Green	













# **NEPTUN IP54** Splash-proof.

## The advan- | • IP 54

VDE approved

## tages at a • VDE ap glance • Special

- Specialist trade range
- Clamp terminals
- Soft membrane with triple sealing lip
- Quick-release upper section
- Attractive design
- Colours: grey + white

Neptun surface-mounted IP54 switches and sockets for damp conditions

Ar	t. no.	Version	Unit	
Ne	Neptun IP54 switch			
Gr	rey			
41	0.000	· Changeover switch	10 items	
41	0.002	Multi-circuit switch	10 items	
41	0.003	Intermediate switch	10 items	
41	0.004	· Control interrupter (emergency switch for heating)	10 items	

White	

410.001 · Changeover switch

10 items

Neptun IP54 pushbutton		
Grey		
410.005	Button with lamp symbol	10 items
410.006	· Button, illuminated	10 items
410.020	Button with bell symbol	10 items
410.021	· Button with name tag, illuminated	10 items

Neptun IP54 socket outlets		
Grey		
410.007	· Socket outlet	10 items
410.016	· Socket outlet, lockable, closing type 1	10 items
410.017	· Socket outlet, lockable, closing type 2	10 items
410.009	· Dual socket outlet, horizontal	10 items
410.011	· Dual socket outlet, vertical	10 items

White		
410.008	· Socket outlet	10 items
410.010	· Dual socket outlet, horizontal	10 items
410.012	· Dual socket outlet, vertical	10 items

Neptun IP54 combination			
Grey			
410.018	· Socket outlet	10 items	
410.013	Socket outlet, lockable, closing type 1	10 items	

Neptun IP54 combination				
White				
410.019	· Changeover switch and socket outlet, vertical	10 items		

Neptun IP54 accessories			
Grey			
410.014	· Glow lamp for switches	10 items	
410.015	· Adapter	10 items	





Socket outlets







## Cooker connecting cable with end sleeves PVC, 70 °C



•	End 1:	50 mm stripped with end sleeves	
---	--------	---------------------------------	--

· End 2: 110 mm stripped with end sleeves, 140 mm green/yellow protective conductor

	Art. no.	Length	Colour	Unit
	H05VV-F 5	G 1.50 mm ²		Diameter approx. 9.5 mm
	Without pa	ckaging		
	116.270	1.5 m	· White	50 items
	116.271	2.0 m	·White	50 items
	116.272	3.0 m	· White	30 items
Individually packed				
	116.280	1.5 m	·White	50 items

H05VV-F 3G 2.50 mm ²			Diameter approx. 10.1 mm
Without pa			
118.270	1.5 m	· White	50 items

H05VV-F 5G 2.50 mm ²			Diameter approx. 11.3 mm	
Without pa	ckaging			
119.270	1.5 m	·White	50 items	
119.271	2.0 m	· White	30 items	
119.272	3.0 m	· White	20 items	
Individually packed				
119.280	1.5 m	· White	50 items	
119.281	2.0 m	· White	30 items	

## Cooker connecting cable with fork-type lugs, PVC, 70 °C

- · End 1: 50 mm stripped with end sleeves
- · End 2: 110 mm stripped with fork-type lugs M5, 140 mm green/yellow earth conductor

Art. no.	Length	Colour	Unit
H05VV-F	5 <mark>G 2.5</mark> 0 mm²		Diameter approx. 11.3 mm
Without packaging			
119.274	2.0 m	·White	30 items

## Cooker connection socket 16A/380V~

- · Duroplast version for surface or flush mounting
- $\cdot$  Quick and easy to connect thanks to spacious terminal area
- $\cdot$  Clamping range: 0.75–2.5 mm² for 55 mm wall box





Appliance connection socket 16A/380V~

- Thermoplastic version for flush mounting
- $\cdot$  Easy to fit with removable terminal block and snap-lock cover
- $\cdot$  With 5x 2.50 mm² screw terminal and strain relief
- · For 55 mm wall box/height 14 mm

Art. no. Colour	Unit				
Appliance junction box					
190.271 · White	20 items				





# Euro supply cable PVC, 70 °C

- · End 1: Euro plug 2.5 A, moulded
- $\cdot$  End 2: 25 mm stripped with end sleeves

Art. no.	Length	Colour	Unit
H03VVH2-F 2x 0.75 mm ² Flat			t cable approx. 3.6 x 5.6 mm
Without pa	ckaging		
202.174	2.0 m	· Black	100 items
202.274	2.0 m	· White	100 items
202.175	3.0 m	· Black	100 items
202.275	3.0 m	· White	100 items
Individually	/ packed		
202.184	2.0 m	· Black	50 items
202.284	2.0 m	· White	50 items
202.185	3.0 m	· Black	50 items
202.285	3.0 m	· White	50 items

# Euro supply cable with intermediate switch, PVC, 70°C

· End 1: Euro plug 2.5 A, moulded

· End 2: 25 mm stripped with end sleeves, 1-pole intermediate switch – installed approx. 50 cm from side 2

Art. no.	Length	Colour		Unit	0
	F 2x 0.75 m	m²	Fla	t cable approx. 3.6 x 5.6 mm	
Without pa	ackaging				0
211.174	1.8 m	<ul> <li>Black</li> </ul>		100 items	
211.274	1.8 m	<ul> <li>White</li> </ul>		100 items	
	•				

Earthing contact supply cable, PVC, with intermediate switch, 70 °C



- $\cdot$  Sealed
- Switch dimensions: 60 x 26 x 13 mm
- · End 1: right angle plug with dual earthing contact system, moulded
- · End 2: 30 mm stripped with end sleeves, 1-pole intermediate switch fitted after approx. 50 cm

Art. no.	Length	Colour	Unit
H03VV-F 3	G 0.75 mm ²		Diameter approx. 5.5 mm
Without pa	ckaging		
302.174	2.0 m	· Black	100 items
302.274	2.0 m	· White	100 items

Vacuum cleaner replacement cable, PVC, 70°C

- · End 1: contour plug, moulded
- $\cdot$  End 2: 30 mm stripped with end sleeves

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Art. no.	Length	Colour	Unit
H05VV-F 2	x 0.75 mm ²		Diameter approx. 6.4 mm
Individually	packed		
240.187	6.3 m	· Black	20 items
240.189	10.0 m	· Black	20 items

Contour plug supply cable, PVC, 70°C

· End 1: contour plug, moulded

· End 2: 30 mm stripped with end sleeves

Art. no.	Length	Colour	Unit
H05VV-F 2	x 1.00 mm ²		Diameter approx. 6.5 mm
Without pa	ckaging		
241.174	2.0 m	· Black	50 items
241.274	2.0 m	· White	100 items
241.175	3.0 m	· Black	50 items
241.275	3.0 m	· White	50 items



305.285 3.0 m

· White

# Earthing contact supply cable, PVC, max. 16A/250V~, 70°C

 $\cdot$  End 1: right angle plug with dual earthing contact system, moulded

· End 2: 30 mm stripped with end sleeves

Art. no.	Length	Colour	Unit
H03VV-F 3	G 0.75 mm ²		Diameter approx. 5.5 mm
Without pa	ckaging		
301.174	2.0 m	· Black	100 items
301.274	2.0 m	· White	100 items
301.974	2.0 m	· Grey	100 items
301.175	3.0 m	· Black	100 items
301.275	3.0 m	·White	100 items

H05VV-F 3G 1.00 mm ²			Diameter approx. 7.0 mm
Without pa	ckaging		
304.174	2.0 m	· Black	100 items
304.274	2.0 m	· White	100 items
304.974	2.0 m	· Grey	100 items
304.175	3.0 m	· Black	50 items
304.275	3.0 m	· White	50 items
304.176	5.0 m	· Black	30 items
304.276	5.0 m	· White	30 items
Individually	/ packed		
304.184	2.0 m	· Black	50 items
304.284	2.0 m	· White	50 items
304.185	3.0 m	· Black	50 items
304.285	3.0 m	· White	50 items

H05VV-F	3G 1.50 mm ²		Diameter approx. 8.0 mm
Without pa	ackaging		
305.174	2.0 m	· Black	50 items
305.274	2.0 m	·White	50 items
305.974	2.0 m	· Grey	50 items
305.175	3.0 m	· Black	50 items
305.275	3.0 m	· White	50 items
305.975	3.0 m	· Grey	50 items
305.176	5.0 m	· Black	30 items
305.276	5.0 m	· White	30 items
Individually	y packed		
305.184	2.0 m	· Black	50 items
305.284	2.0 m	·White	50 items
305.185	3.0 m	· Black	20 items

20 items



# Earthing contact supply cable, PVC, max. 16A/250V~, 70°C

 $\cdot$  End 1: central plug with dual earthing contact system, moulded

· End 2: 30 mm stripped with end sleeves



Art. no.	Length	Colour	Unit
H05VV-F 3	3G 1.0 mm ²		Diameter approx. 5.5 mm
Without pa	ackaging		
311.273	1.5 m	· White	100 items
311.274	2.0 m	· White	100 items
H03VV-F 3	3G 0.75 mm²		Diameter approx. 5.5 mn
H03VV-F 3			Diameter approx. 5.5 mm Diameter approx. 6.0 mm
		· Black	
Individually	y packed	· Black · Black	Diameter approx. 6.0 mm

# Electric iron supply cable, textile, 150°C

- )°C 🔅 📕
- $\cdot$  End 1: central plug with dual earthing contact system, moulded
- $\cdot\,$  End 2: 30 mm stripped with end sleeves

Art. no. Length Colour	Unit
H03RT-H 3G 0.75 mm ² – TEXTILE	Diameterapprox. 6.5 mm
Without packaging	
313.175 3.0 m · Grey/white	50 items
Individually packed	
313.185 3.0 m · Grey/white	50 items







,		
<ul> <li>End 1: Euro plug, moulded</li> <li>End 2: small device male socket, moulded</li> </ul>		
Art. no. Length Colour		Unit
H03VVH2-F 2x 0.75 mm ²	flat cable	approx. 3.6 x 5.6 mm
Without packaging		
251.173 1.5 m · Black		200 items
Individually packed		
251.183 1.5 m · Black		50 items

# Non-heating appliance supply cable PVC, 10A/250V~, 70°C

- $\cdot$  End 1: right angle plug with dual earthing contact system, moulded
- · End 2: non-heating appliance socket, IEC 320/C13, moulded

Art. no.	Length	Colour	Unit
H05VV-F 3	G 0.75 mm ²		Diameter approx. 5.8 mm
Without pa	ckaging		
351.174	2.0 m	· Black	100 items
351.974	2.0 m	· Grey	100 items
Individually	/ packed		
351.184	2.0 m	· Black	50 items
351.984	2.0 m	· Grey	50 items



H05VV-F 3G 1.00 mm ²			Diameter approx. 7.0 mm
Without packaging			
353.175	3.0 m	· Black	50 items
353.975	3.0 m	· Grey	50 items
Individually	packed		
353.185	3.0 m	· Black	50 items
353.985	3.0 m	· Grey	50 items

# Non-heating appliance supply cable PVC, 16A/250V~, 70°C

· End 1: right angle plug with dual earthing contact system, moulded

• End 2: C19 non-heating appliance socket (915.174)

Art. no.	Length	Colour	Unit
H05VV-F 3	G 1.50 mm ²		Diameter approx. 8.4 mm
Without pa	ckaging		
352.174	2.0 m	· Black	50 items
352.175	3.0 m	· Black	50 items



Non-heating appliance extension, 10A/250V~, 70°C

 $\cdot$  End 1: IEC 320/C14 non-heating appliance plug with earthing contact, moulded

- $\cdot$  End 2: IEC 320/C13 non-heating appliance socket with earthing contact, moulded
- $\cdot$  Ideal connector between PC and monitor or as an extension cable

Art. no. Length Colour	Unit
H05VV-F 3G 0.75 mm ²	Diameter approx. 5.8 mm
Without packaging	
356.974 2.0 m · Grey	100 items
H05VV-F 3G 1.00 mm ²	Diameter approx. 7.0 mm
Without packaging	
356.975 3.0 m · Grey	50 items



Non-heating appliance extension PVC, 16A/250V~, 70°C
------------------------------------------------------

- End 1: C20 non-heating appliance plug (915.175)
- · End 2: C19 non-heating appliance socket (915.174)



Art. no.	Length	Colour	Unit
H05VV-F 3	G 1.50 mm ²		Diameter approx. 8.4 mm
Without pa	ckaging		
356.174	2.0 m	· Black	50 items
356.175	3.0 m	· Black	50 items

# Heating appliance power cable, PVC, 10A/250V~ (for export only)

- $\cdot$  End 1: right angle plug with dual earthing contact system, moulded
- $\cdot$  End 2: heating appliance socket 10A, IEC 320/C15, fitted



Art. no. Length Colour	Unit
H05VV-F 3G 1.00 mm ²	Diameter approx. 7.0 mm
Without packaging	
361.174 2.0 m · Black	50 items
Individually packed	
361.184 2.0 m · Black	50 items

# High-temperature appliance power cable, rubber, 10A/250V~, 155°C

· End 1: right angle plug with dual earthing contact system, moulded

· End 2: high-temperature appliance socket, 10A, fitted



Art. no.   Length   Colour	Unit	
H05RR-F 3G 1.00 mm ²	Diameter approx. 6.5 mr	n
Without packaging		
372.174 2.0 m · Black	50 items	
Individually packed		
372.184 2.0 m · Black	20 items	

# Universal power cable, PVC, 10A/250V~ (for export only)

- $\cdot$  End 1: right angle plug with dual earthing contact system, moulded
- $\cdot$  End 2: high-temperature appliance socket, 10A, fitted

Art. no. Length	Colour	Unit
H05VV-F 3G 1.00 mm ²		Diameter approx. 7.0 mm
Without packaging		
373.174 2.0 m	· Black	50 items



Contour supply cable, neoprene, 16A/250V~, 70°C

- · End 1: contour plug, moulded
- · End 2: 30 mm stripped with end sleeves
- · Ideal connecting cable for power tools

Art. no.	Length	Colour	Unit
H07RN-F	2x 1.00 mm ²		Diameter approx. 7.7 mm
Without pa	ckaging		
246.174	2.0 m	· Black	50 items
246.175	3.0 m	· Black	50 items
246.375	3.0 m	· Red	50 items
246.176	5.0 m	· Black	20 items
246.376	5.0 m	·Red	20 items
Individually	/ packed		
246.185	3.0 m	· Black	20 items
246.186	5.0 m	· Black	20 items





Diameter approx. 8.7 mm

50 items

50 items

20 items

20 items

20 items

# Contour supply cable, rubber/PUR, 16A/250V~, 70°C

· End 1: contour plug, moulded

H07RN-F 2x 1.50 mm²

2.0 m

3.0 m

5.0 m

3.0 m

5.0 m

Without packaging

Individually packed

248.174

248.175

248.176

248.185

248.186

· End 2: 30 mm stripped with end sleeves

· Black

· Black

· Black

Black

Black

Art. no.	Length	Colour	Unit
H05BQ-F	2x 1.00 mm ²		Diameter approx. 6.8 mm
Without pa	ickaging		
244.875	3.0 m	· Orange	50 items
244.876	5.0 m	· Orange	30 items
244.070	0.0111		

H07BQ-F	2x 1.50 mm	Diameter approx. 8.3 mm	
Without pa	ackaging		
249.875	3.0 m	· Orange	50 items
249.876	5.0 m	· Orange	30 items

# Power cable with earthing contact plug, neoprene, max. 16A/250V~



Unit

Diameter approx. 6.7 mm

· End 1: central plug with dual earthing contact system, moulded plug with splash water protection!

· End 2: 30 mm stripped with end sleeves

Art. no. Length Colour

H05RR-F 3G 0.75 mm²



Without packaging					
321.174	2.0 m	· Black	50 items		
321.175	3.0 m	· Black	50 items		
321.176	5.0 m	· Black	20 items		
H07RN-F	3G 1.00 mm²		Diameter approx. 8.9 mm		
H07RN-F 3 Without pa			Diameter approx. 8.9 mm		
		· Black	Diameter approx. 8.9 mm		
Without pa	ckaging				

320.176	5.0 m	· Black	20 items
Individu	ally packed		
320.185	3.0 m	· Black	20 items
320.186	5.0 m	· Black	20 items

H07RN-F	3G 1.50 mm²	Diameter approx. 9.5 mm	
Without pa	ckaging		
322.174	2.0 m	· Black	50 items
322.175	3.0 m	· Black	30 items
322.176	5.0 m	· Black	20 items
Individually	/ packed		
322.184	2.0 m	· Black	20 items
322.185	3.0 m	· Black	20 items
322.186	5.0 m	· Black	20 items

H07RN-F	3 <mark>G 2.5</mark> 0 mm ²	Diameter approx. 11.3 mm	
Individually	/ packed		
323.185	3.0 m	· Black	10 items
323.186	5.0 m	· Black	10 items

Cable with earthing contact plug, rubber/PUR, max. 16A/250V~



 $\cdot$  End 1: central plug with dual earthing contact system, moulded plug with splash water protection!

 $\cdot$  End 2: 30 mm stripped with end sleeves



Art. no.	Length	Colour	Unit	
H05BQ-F	3G 1.00 mm ²	1	Diameter approx. 7.9 mm	
Without pa	ickaging			
328.875	3.0 m	· Orange	50 items	
328.876	5.0 m	· Orange	30 items	
H07BQ-F	3 <mark>G 1.5</mark> 0 mm ²		Diameter approx. 8.6 mm	
Without packaging				
327.875	3.0 m	· Orange	30 items	
327.876	5.0 m	· Orange	20 items	

Note	<ul> <li>For contour and earthing-contact connector power cable</li> <li>Contour supply cable: 244.875/244.876/249.875/249.876</li> <li>Earthing contact cable: 328.875/328.876/327.875/327.876</li> <li>Contour supply cable: 244.875/244.876/249.875/249.876</li> </ul>
Cable construc- tion	<ul> <li>Copper conductors, fine stranded, tin-plated.</li> <li>Insulation in ethylene/propylene rubber.</li> <li>Sheath in polyurethane 11Ym1 mix to conform to VDE 0250 part 818/585.</li> </ul>
Example ap- plications	<ul> <li>Outdoors and in dry, damp and wet indoor spaces.</li> <li>For mechanically demanding applications on construction sites, in work-shops, in mechanical and plant engineering and in the chemicals industry.</li> <li>Wherever requirements for abrasion resistance, impact resistance and oil resistance are high.</li> <li>Particularly suitable as a cable for hand-held power tools.</li> </ul>
We can provide	e custom configurations following your specification or following free

consultation with our experts. As a manufacturer of many years' standing, we possess a wealth of know-how. See also page 266 ff (international connectors and couplings).

# Transparent power cables

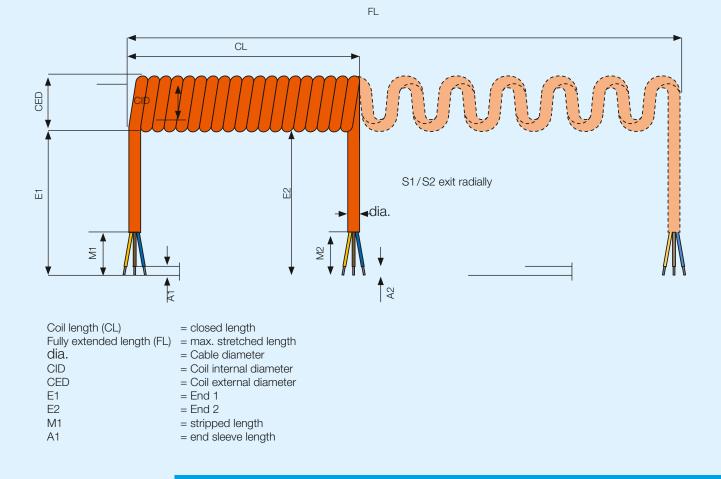
 $\cdot$  Cores FEP T 180 °C/sheath PVC T 105 °C 450/750 V, earthing conductor green/yellow

- · End 1: 40 mm stripped with end sleeves
- · End 2: 40 mm stripped with end sleeves

Art. no.	Length	Colour	Unit
Double ins	sulated cable 3	x 0.75 mm²	
130.080	1.5 m	· Transparent	1 item
130.081	3.0 m	· Transparent	1 item
Double ins	sulated cable 3	x 1.50 mm²	
131.080	1.5 m	<ul> <li>Transparent</li> </ul>	1 item
131.081	3.0 m	· Transparent	1 item
Double ins	sulated cable 3	x 0.75 mm²	diameter 5.2 mm ±0.2 mm
150.072	50.0 m ring	Transparent	1 item
	sulated cable 3		
150.070	50.0 m ring	· Transparent	1 item
	sulated cable 5		
132.080	1.5 m	Transparent	1 item
132.081	3.0 m	· Transparent	1 item
	sulated cable 5		
133.080	1.5 m	Transparent	1 item
133.081	3.0 m	Transparent	1 item
	sulated cable 5		
151.070	50.0 m ring	· Transparent	1 item
	sulated cable 5		
151.072	50.0 m ring	Transparent	1 item



Cables



# SPIRAL CABLES

# Wide range of stock items plus custom manufacturing

As a leading manufacturer of spiral cables we have extensive competence and count leading global companies among our customers. Developed for specific uses – from helmet communication cords in helicopters to coiled cables for demanding robotics environments – we will find the solution for you.

	Insulation PVC/sheath PVC
Characteristics	Good value, low mechanical stiffness, medium chemical resistance, medium restoring force.
Example	<ul> <li>For household equipment, lamps and IT systems.</li> </ul>
applications	
	Insulation PVC/sheath PUR
Characteristics	Good chemical resistance, good resistance to cold, excellent abrasion and notching resistance,
	very good oil resistance, good restoring force.
Example	• For connecting cables in engineering and the building industry (construction equipment).
applications	
	Insulation rubber PUR/sheath PUR
Characteristics	• Good wear resistance, good chemical resistance, good resistance to cold, excellent abrasion and
	notching resistance, very good oil resistance, good restoring force.
Example	<ul> <li>For machines and systems that require VDE-compliant connections:</li> </ul>
applications	Examples are mechanical engineering, construction equipment, electric tools, communication
	technology – in particular for use out of doors and/or in damp rooms.

# Spiral cables, PVC

· End 1/end 2: 200 mm each, not stripped

Characteristics: good value, low mechanical resistance, medium chemical resistance, medium restoring force

· Example applications: lamps, IT systems and mobile devices/equipment

Art. no.	Coil length	Extended length	Version	Unit		
Spiral cabl	Spiral cable					
H03VV-F 2	H03VV-F 2x 0.75 mm ² , diameter approx. 5.8 mm, CID: approx. 10 mm, CED: approx. 22 mm					
601.180	500 mm	2000 mm	· Black	50 items		
601.280	500 mm	2000 mm	· White	50 items		

#### H05VV-F 3G 1.00 mm², diameter approx. 7.6 mm, CID: approx. 10 mm, CED: approx. 26 mm

653.180	500 mm	2000 mm	· Black	50 items
653.280	500 mm	2000 mm	· White	50 items
653.181	1000 mm	4000 mm	· Black	30 items
653.281	1000 mm	4000 mm	· White	30 items
653.182	1500 mm	6000 mm	· Black	25 items
653.282	1500 mm	6000 mm	· White	25 items

H05VV-F 3G 1.50 mm ² , diameter approx. 8.4 mm, CID: approx. 10 mm, CED: approx. 27 mm					
654.180	500 mm	2000 mm	· Black	50 items	
654.280	500 mm	2000 mm	• White	50 items	
654.181	1000 mm	4000 mm	· Black	30 items	
654.281	1000 mm	4000 mm	· White	30 items	
654.182	1500 mm	6000 mm	<ul> <li>Black</li> </ul>	15 items	
654.282	1500 mm	6000 mm	· White	15 items	

Spiral cable PUR ·

Insulation: PVC, sheath: PUR, elongation factor 1:5, 70 °C

· End 1/end 2: 200 mm each, not stripped

Characteristics: good chemical resistance, good resistance to cold, excellent abrasion and notching resistance, very good oil resistance, good restoring force.

· Example applications: connecting cables for engineering, the construction industry or robotics

Art. no.	Coil length	Extended length	Version	Unit
Spiral cab	le, PUR			
YMH11Y-J	3G 1.50 mm², di	ameterapprox. 8.0 mr	n, CID: approx. 13 mm, CED: app	rox. 29 mm
692.180	500 mm	2500 mm	· Black	30 items
692.280	500 mm	2500 mm	• White	30 items
692.181	1000 mm	5000 mm	· Black	20 items
692.281	1000 mm	5000 mm	• White	20 items
692.182	1500 mm	7500 mm	<ul> <li>Black</li> </ul>	15 items
692.282	1500 mm	7500 mm	· White	15 items

## Spiral cable, PUR

Art. no.	Coil length	Extended lengt	th Version	Unit
Spiral cable	, PUR			
YMH11Y-J 5	ix 1.50 mm ² , diame	ter approx. 10.0 mm	n, CID: approx. 18 mi	n, CED: approx. 39 mm
693.180	500 mm	2500 mm	· Black	20 items
693.280	500 mm	2500 mm	· White	20 items
693.181	1000 mm	5000 mm	· Black	10 items
693.281	1000 mm	5000 mm	· White	10 items
693.182	1500 mm	7500 mm	· Black	5 items
693.282	1500 mm	7500 mm	· White	5 items

## Spiral cable, PUR

Insulation: rubber, sheath: PUR, elongation factor 1:5, 70°C

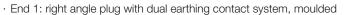
· End 1/end 2: 200 mm each, not stripped

- Characteristics: good chemical resistance, good resistance to cold, microbe resistant, excellent abrasion and notching resistance, microbe-proof, high resistance to chafing and grinding, good restoring force
- Example applications: machines and systems requiring VDE-compatible connection: e.g. in engineering, power tools, construction equipment and communications systems
- $\cdot$  Particularly suitable for use out of doors or in damp environments; UV resistant

Art. no.	Coil length	Extended length	Version	Unit			
Spiral cab	le, PUR						
H07BQ-F 3	H07BQ-F 3G 1.50 mm ² , diameter approx. 9.5 mm, CID: approx. 13 mm, CED: approx. 32 mm						
684.880	500 mm	2500 mm	· Orange	20 items			
684.881	1000 mm	5000 mm	· Orange	15 items			
684.882	1500 mm	7500 mm	· Orange	10 items			
H07BQ-F 5	G 1.50 mm², dia	meter approx. 11.3	mm, CID: approx. 18 mm, CED: app	prox. 41 mm			
685.880	500 mm	2500 mm	· Orange	20 items			
685.881	1000 mm	5000 mm	· Orange	10 items			
685.882	1500 mm	7500 mm	· Orange	5 items			
H07BQ-F 7	G 1.50 mm², dia	meter approx. 13.9	mm, CID: approx. 18 mm, CED: app	prox. 46 mm			
681.880	500 mm	2500 mm	· Orange	20 items			
681.881	1000 mm	5000 mm	· Orange	10 items			
681.882	1500 mm	7500 mm	· Orange	5 items			
H07BQ-F 3	3G 2.50 mm², diai	meter approx. 10.8	mm, CID: approx. 18 mm, CED: app	prox. 40 mm			
682.880	500 mm	2500 mm	· Orange	20 items			
682.881	1000 mm	5000 mm	· Orange	10 items			
682.882	1500 mm	7500 mm	· Orange	5 items			
H07BQ-F 5	G 2.50 mm², dia	meter approx. 13.7	mm, CID: approx. 18 mm, CED: app	prox. 46 mm			
683.880	500 mm	2500 mm	· Orange	20 items			
683.881	1000 mm	5000 mm	· Orange	10 items			
683.882	1500 mm	7500 mm	· Orange	5 items			

Contour :	supply cable,	PUR 💮 📕 Ir	nsulation: rubber, sheath: F	PUR, elongation factor 1:5, 70°C	
	oulded contour				
• End 2: ler	ngth 100 mm in	ncl. 30 mm stripped,	with end sleeves		
Art. no.	Coil length	Extended length	Version	Unit	$\cap$
Contour s	supply cable, PU	JR			
H05BQ-F	2x 1.00 mm ² , dia	ameter approx. 7 mm,	CID: approx. 9 mm, CED: ap	pprox. 23 mm	· · · · · · · · · · · · · · · · · · ·
624.871	1000 mm	5000 mm	· Orange	50 items	-
Spiral cat	ole with earth	ing contact plug,	PVC 💮 💻		
			Insulation: PVC, sheath: I	PVC, elongation factor 1:4, 70°C	
-			arthing contact system, m	oulded	
	''''''''''''''''''''''''''''''''''''''	icl. 30 mm stripped,	with end sieeves		
Art. no.	Coil length	Extended length	Version	Unit	
Earthing	contact spiral su	upply cable PVC			and a second
H05VV-F 3	3G 1.50 mm², dia	meter approx. 8.4 mn	n, CID: approx. 10 mm, CED	: approx. 27 mm	
663.170	500 mm	2000 mm	· Black	50 items	
663.270	500 mm	2000 mm	• White	50 items	R.
663.171	1000 mm	4000 mm	Black	30 items	and the second s
663.271	1000 mm	4000 mm	· White	30 items	7
• End 1: ler	ngth 100 mm st		nsulation: rubber, sheath: with dual earthing contact	PUR, elongation factor 1:5, 70°C system, moulded	
Art. no.	Coil length	Extended length	Version	Unit	$\frown$
Spiral cat	ole with earthing	g contact plug, PUR			
H07BQ-F	3G 1.50 mm², dia	ameter approx. 9.5 mr	n, CID: approx. 13 mm, CED	): approx. 32 mm	<b>ال</b> م الــــــــــــــــــــــــــــــــــــ
665.870	500 mm	2500 mm	· Orange	10 items	Δ
665.871	1000 mm	5000 mm	· Orange	10 items	
Spiral ligh	nting cables				
Ends: 140	mm each, incl.	80 mm stripped, wi	th end sleeves		
Art. no.	Coil length	Extended length	Version	Unit	
Spiral ligh	nting cable (prep	pared)			Same and the second
H05VV-F 3	3G 1.50 mm², dia	meter approx. 8.4 mn	n, CID: approx. 10 mm, CED	: approx. 27 mm	
		VC, elongation factor 1			
654.283	400 mm	1600 mm	• White	50 items	Sugar J
654.284	800 mm	3200 mm	· White	25 items	AND
			m, CID: approx. 13 mm, CED	): approx. 34 mm	
		UR, elongation factor 1			1
693.283	400 mm	2000 mm	· White	20 items	

# Earthing contact extension, 16A/250V~, PVC, 70°C



 $\cdot$  End 2: earthing contact coupling, moulded, with extra child-proofing in coupling



Art. no. Version	Unit
Earthing contact extension, cable: H05VV-F 3G 1.50 mm ²	
Length: 2 m	
341.200S · White	50 items
Length: 3 m	
341.201S · White	50 items
Length: 5 m	
341.202S · White	30 items
Length: 10 m	
341.203S · White	20 items

# Spiral earthed contact extension cables, PVC, elongation factor 1:4, 70 ° C

 $\cdot$  End 1: central plug with dual earthing contact system, moulded

· End 2: earthing contact coupling, moulded

Art. no.	Coil length	Extended length	Version	Unit		
Spiral extension cable with earthing contact plug, PVC						
H05VV-F 3G 1.50 mm ² , diameter approx. 8.4 mm, CID: approx. 10 mm, CED: approx. 27 mm						
672.180	500 mm	2000 mm	• Black	20 items		
672.280	500 mm	2000 mm	· White	20 items		
672.181	1000 mm	4000 mm	· Black	20 items		
672.281	1000 mm	4000 mm	· White	20 items		

# Earthing contact extension cable, 16A/250V~, IP20, PVC, 70°C

 $\cdot$  End 1: central plug with dual earthing contact system, moulded

 $\cdot$  End 2: earthing contact coupling, moulded, with cover

Art. no. Version		Unit
Earthing contact extension, cable: H05VV-F3G 1.50 mm ² , safety colour of	orange	
Length: 10 m		
341.879 · Orange		1 item
Length: 25 m		
341.870 · Orange		1 item



Euro extension cables, 2.5A/250V~, PVC, 70°C

- $\cdot$  End 1: Euro plug, fitted
- $\cdot$  End 2: Euro coupling, fitted
- · Cable: H03VVH2-F2 0.75 mm², flat cable

Art. no.	Version	Unit
Euro exter	nsion	
Length: 2.0	) m	
233.184	· Black	20 items
233.284	· White	20 items
Length: 3.0	) m	
233.185	· Black	20 items
233.285	· White	20 items
Length: 5.0	) m	
233.186	· Black	20 items
233.286	· White	20 items

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Earthing contact extension,	16A/250V~, PVC, 70°C
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 $\cdot$  End 1: right angle plug with dual earthing contact system, moulded

 $\cdot$  End 2: earthing contact coupling, moulded

Art. no.	Version		Unit		
Earthing c	ontact extension, cable: H05VV-F 3G 1.50 mm ²				
Length: 2.0	) m				
341.184	·Black		50 items		
341.284	· White		50 items		
Length: 3.0	) m				
341.185	·Black		50 items		
341.285	· White		50 items		
Length: 4.0	) m				
341.287	· White		50 items		
Length: 5.0	) m				
341.186	·Black		50 items		
341.286	· White		50 items		
Length: 7.5	5 m				
341.288	· White		20 items		
Length: 10	m				
341.189	·Black		15 items		
341.289	· White		15 items		
Length: 15	Length: 15 m				
341.281	· White		10 items		



Lawnmower extension, 16A/250V~, rubber/neoprene, 70°C



- · End 1: central plug with earthing contact
- $\cdot$  End 2: earthing contact coupling with cover



Art. no. Version	Unit
Lawnmower extension, cable: H07RN-F3G 1.50 mm ²	
15 m	
343.373 · Red	1 item
25 m	
343.370 · Red	1 item
35 m	
343.372 · Red	1 item
50 m	
343.371 · Red	1 item

# Kabelsafe box, IP44

- $\cdot$  Offers the best protection for plugged joints of power cables
- $\cdot$  Child-proof and waterproof
- $\cdot$  Ideal for outdoor use
- $\cdot$  Protects the plug connections of your Christmas and party illuminations
- · Practical applications in camping and for use with electric lawnmowers
- $\cdot$  For permanent use in the garden and on construction sites

Art. no.	Version	Unit
Kabelsafe	box, IP44	
919.371	· Max. cable diameter 9 mm	1 item
	· Internal dimensions 180 mm long, diameter 60 mm	
	·Orange	



## Kabelsafe box, IP64

- · Offers outstanding protection for power strips, extension cables and adapters
- · 6 cable entries with individual strain relief
- · Lockable and mountable from the rear; very robust construction
- $\cdot$  For permanent use in the garden and on construction sites
- · Ideal for Christmas lights, garden equipment and camping

Art. no.	Version	Unit
Kabelsafe	box, IP64	
904.100	<ul> <li>Designed for cable diameters of H05VV – F3G 1.5 mm² to H07RN-F3G1.5 mm²</li> <li>Light grey</li> <li>Suitable for e.g. entire Smart Line 3x range</li> <li>Useable surface: 85 mm deep, 275 mm wide</li> </ul>	1 item



# Earthing contact extension cable, 16A/250V~, rubber, 70°C

· End 1: central plug with earthing contact

 $\cdot\,$  End 2: earthing contact coupling with cover

Art. no. Version	Unit	
Earthing contact extension, cable: H05RR-F3G 1.50 mm ²		
Length: 10 m		
343.179 · Black	1 item	
Length: 25 m		
343.177 · Black	1 item	



Earthing contact extension cable, 16A/250V~, IP44, rubber/neoprene, 70°C

· End 1: central plug with earthing contact

- $\cdot$  End 2: earthing contact coupling with cover
- $\cdot\,$  Heavy duty version for outdoor use and on construction sites

Art. no. Version	Unit
Earthing contact extension, cable: H07RN-F3G 1.50 mm ²	
Length: 5 m	
343.170 · Black	1 item
Length: 10 m	
343.171 · Black	1 item
Length: 25 m	
343.172 · Black	1 item
Length: 50 m	
343.173 · Black	1 item
Earthing contact extension, cable: H07RN-F3G 2.50 mm ²	
Length: 10 m	
343.191 · Black	1 item
Length: 25 m	
343.192 · Black	1 item



Earthing contact extension cable, 16A/250V~, IP44, rubber/neoprene, 70°C

 $\cdot$  3-way rubber overhead coupling and hinged lid (IP44)

 $\cdot$  End 1: central plug with earthing contact

 $\cdot$  End 2: 3-way rubber overhead coupling with hinged lid and standardised snap latch

Art. no. Version	Unit
Earthing contact extension, cable: H07RN-F3G 1.50 mm ²	
Length: 5 m	
343.174 · Black	1 item
Length: 10 m	
343.175 · Black	1 item
Length: 25 m	
343.176 · Black	1 item



CEE extension cable, 32 A/400 V ~, rubber/neoprene, IP44, 70 °C

- · End 1: CEE plug 32A/6h/400V
- · End 2: CEE coupler 32A/6h/400V
- $\cdot$  Suitable for use out of doors and on construction sites

Art. no. Version	Unit
CEE extension, H07RN-F5G 2.5 mm ²	
Length: 5 m	
345.170 · Black	1 item
Length: 10 m	
345.171 · Black	1 item
Length: 25 m	
345.172 · Black	1 item
CEE extension, H07RN-F5G 4.00 mm ²	
Length: 5 m	
346.170 · Black	1 item
Length: 10 m	
346.171 · Black	1 item
Length: 25 m	
346.172 · Black	1 item
CEE extension, H07RN-F5G 6.00 mm ²	
Length: 10 m	
348.171 · Black	1 item
Length: 25 m	
348.172 · Black	1 item



Cable-carrying aid

<ul> <li>Handle facilitates transport of long cables or tubes</li> <li>Adjustable and flexible</li> </ul>		
Art. no. Version	Unit	- 11
Cable-carrying aid		- Ψ
394.179 · Orange	1 item	

# CEE extension cable, 16A/400V ~ , rubber/neoprene, IP44, 70 $^\circ\text{C}$

- · End 1: CEE plug 16A/6h/400V
- · End 2: CEE coupler 16A/6h/400V
- $\cdot$  Suitable for use out of doors and on construction sites

Art. no. Version	Unit
CEE extension, H07RN-F5G 1.5 mm ²	
Length: 5 m	
344.170 · Black	1 item
Length: 10 m	
344.171 · Black	1 item
Length: 25 m	
344.172 · Black	1 item
CEE extension cable, H07RN-F5G 1.5 mm ² , with phase inverter	
Length: 10 m	
344.174 · Black	1 item
Length: 25 m	
344.175 · Black	1 item
CEE extension, H07RN-F5G 2.5 mm ²	
Length: 5 m	
347.170 · Black	1 item
Length: 10 m	
347.171 · Black	1 item
Length: 25 m	
347.172 · Black	1 item





# MEISTERTROMMEL CABLE REELS

For professionals, the BACHMANN Meistertrommel is the ideal cable reel. The Meistertrommel keeps you on the safe side – with the assurance of Bachmann's renowned quality. To document this, every Meistertrommel is individually tested and issued with a certificate of inspection.

The advan-

- | • Resistant to fuel and oil substances. Good resistance to chemicals.

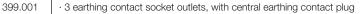
- tages at a Weatherproof, no rust, no corrosion!
  - glance Temperature stability range -15 °C to +60 °C

### Meistertrommel cable reels

Art. no. Version

## Meistertrommel 3x earthing contact

#### 25 m H07RN-F3G 1.5 mm², black



#### 40 m H07RN-F3G 1.5 mm², black

399.002 · 3 earthing contact socket outlets, with central earthing contact plug

 Meistertrommel 4x earthing contact

 Empty reel

 399.000
 · 4 socket outlets with earthing contact

25 m H07RN-F3G 1.5 mm², black

399.003 · 4 earthing contact socket outlets, with central earthing contact plug

Meistertrommel 4x earthing contact		
40 m H07RN-F3G 1.5 mm ² , black		
399.004 · 4 earthing contact socket outlets, with central earthing contact plug		

# 50 m H07RN-F3G 1.5 mm², black

399.005  $\cdot$  4 earthing contact socket outlets, with central earthing contact plug

# 40 m H07RN-F3G 2.5 mm², black

399.006 · 4 earthing contact socket outlets, with central earthing contact plug

Meistertrommel 3x earthing contact, 1x CEE		
Empty reel		
399.007	<ul> <li>· 3 socket outlets with earthing contact</li> <li>· 1 CEE socket 16A</li> </ul>	
25 m H07F	RN-F5G 2.5 mm², black	
399.009	· 3 socket outlets with earthing contact	

#### · 1 CEE socket, 16A with CEE plug, 16A

40 m XYMM-J3G 1.5 mm², yellow

399.012 · 4 earthing contact socket outlets, with central earthing contact plug

#### 25 m XYMM-J5G 1.5 mm², yellow 399.013 · 2 socket outlets with

- 2 socket outlets with earthing contact
- · 1 CEE socket, 16A with CEE plug, 16A

Meistertrommel other				
399.010	· Empty reel with closed plate for configuration by user			
399.011	· Metal wall mount			









# CABLE REEL



ntegrate	d cable winder and locking brake		
Art. no.	Version		Unit
Empty ree	el, plastic, large, holds up to 50 m H05VV-F 3G 1.50 mm² cabl	e	
397.003	Wheel diameter 290 mm		1 item
	· Reel: black	I	
able ree	el, 4-way, 16A/250V~, IP20 ( 🧮		
1 oorthin	g contact sockets, 250V~, without cover		
	-pole thermal cut-out		
Art. no.	Version	I	Unit
-		l	Offic
Plastic ca 25 m	ble reel, cable: H05VV-F 3G 1.50 mm ²		
392.180	· Central plug with dual earthing contact system		1 item
	· Cable: black, reel: black		
50 m			
392.181	· Central plug with dual earthing contact system		1 item
	· Cable: black, reel: black		
Plastic ca	ble reel, cable: H05RR-F 3G 1.50 mm ²		
25 m			
395.180	· Central earthing contact plug		1 item
	· Cable: black, reel: black		
50 m			
395.181	· Central earthing contact plug		1 item
	· Cable: black, reel: black		
Plastic em	pty reel, large, holds up to 50 m H05RR-F 3G 1.50 mm ² cable		
396.181	· Wheel diameter 280 mm		1 item
	· Reel: black		
	el cable reel, cable: H05VV-F 3G 1.50 mm²		
Sheet ste			
Sheet ste 25 m			1 item
	· Central plug with dual earthing contact system		1 100111
25 m	Central plug with dual earthing contact system     Cable: black, reel: silver		
<b>25 m</b> 398.183			
25 m			1 item



Art. no.	Version	Unit
Sheet ste	eel cable reel, cable: H05RR-F 3G 1.50 mm ²	
25 m		
398.181	Central earthing contact plug     Cable: black, reel: silver	1 item
50 m		
398.182	Central earthing contact plug     Cable: black, reel: silver	1 item
Sheet ste	eel cable reel, cable: H07RN-F 3G 1.50 mm ²	
40 m		
398.185	· Central earthing contact plug     · Cable: black, reel: silver	1 item
Sheet ste	eel empty reel, large	
396.182	Wheel diameter 290 mm     Reel: silver	1 item

Cable reel, 3-way, 16A/250V~

 $\cdot$  3 earthing contact sockets, 250V ~ , without cover

- · Built-in 1-pole thermal cut-out
- $\cdot$  Splash-proof for outdoor use

Art. no.	Version	Unit
Plastic cal	ble reel, cable: H07RN-F 3G 1.50 mm ²	
25 m, IP44		
392.182	Central earthing contact plug     Cable: black, reel: black	1 item
40 m, IP44		
392.183	Central earthing contact plug     Cable: black, reel: black	1 item
Plastic em	oty reel, cable up to max. 40 m	
396.183	· Wheel diameter 280 mm · Reel: black	1 item
Sheet stee	l cable reel, cable: H05RR-F 3G 1.50 mm ²	
50 m, IP20		
398.186	<ul> <li>Central earthing contact plug</li> <li>Cable: black, reel: silver</li> </ul>	1 item
	l cable reel, cable: H07RN-F 3G 1.50 mm ²	
40 m, IP44		
398.180	<ul> <li>Central earthing contact plug</li> <li>Cable: black, reel: silver</li> </ul>	1 item
Sheet stee	empty reel, holds up to 40 m cable	
396.187	· Wheel diameter 280 mm · Reel: silver	1 item

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# **PROFESSIONAL CABLE REEL**

The advan-	Splash water protect	tion IP44
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- Integrated thermal cut-out
- glance For outdoor use

## Professional cable reel, 3-way, 16A/250V~

- · 3 earthing contact socket outlets with hinged lid
- · Built-in 1-pole thermal cut-out
- · Dual tubular frame

tages at a

· Reel body in unbreakable plastic

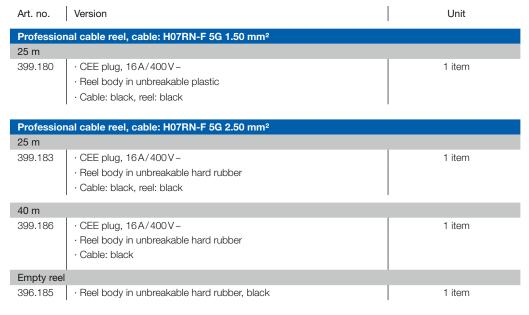


Art. no.	Version		Unit
Profession	nal cable reel, cable: H07RN-F 3G 1.50 mm ²		
25 m			
399.181	· Central earthing contact plug		1 item
	· Cable: black, reel: black		
40 m			
399.182	· Central earthing contact plug		1 item
	· Cable: black, reel: black		
Empty reel	, holds up to 40 m H05RN-F 3G 1.50 mm ² cable		
396.184	· Wheel diameter 280 mm		1 item
	· Reel body in unbreakable plastic, black		

### Professional cable reel, 3-way, 16A/400V~

- · 1 CEE socket outlet, 16A/400V
- $\cdot$  2 earthing contact socket outlets, 250 V~ with hinged lid
- · Built-in 3-pole thermal cut-out
- · Dual tubular frame

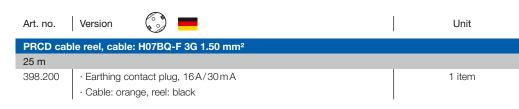






# Cable reel with portable RCD, 3-way

- $\cdot$  3 earthing contact socket outlets with hinged lid and built-in 1-pole thermal cut-out
- · Dual tubular frame, reel body in unbreakable hard rubber





# Professional cable reel, 4-way, 16A/250V~

- $\cdot$  4 earthing contact socket outlets with hinged lid, with 1-pole thermal cut-out
- $\cdot$  Dual tubular frame, reel body in unbreakable hard rubber

Art. no.	Version		Unit	
Professio	onal cable reel, cable: H07RN-F 3G 1.50 mm ²			
25 m				
399.187	Central earthing contact plug     Cable: black		1 item	
50 m				
399.188	· Central earthing contact plug     · Cable: black		1 item	
Professio	onal cable reel, cable: H07RN-F 3G 2.50 mm ²			
50 m				
399.189	Central earthing contact plug     Cable: black		1 item	
Empty ree	e e e e e e e e e e e e e e e e e e e			
396.188	$\cdot$ Reel body in unbreakable hard rubber, black		1 item	



# Replacement parts for cable reels

Art. no. Version		Unit			
Thermal cut-out					
1-pole, suitable for all cable reels, page 238 – 241					
900.180 · Red		1 item			
3-pole					
900.181 · Red		1 item			
Socket insert					
4-way, with thermal cut-out					
900.187 · Black		1 item			
3-way with cover with thermal protection					
910.105 · Cover: red, plate: black		1 item			
2x earthing contact socket, 1x CEE socket, 16A/400V~					
2-way with hinged lid, without thermal cut-out	2-way with hinged lid, without thermal cut-out				
910.106 · Cover: red, plate: black		1 item			





# Cable box, 4-way, 16A/250V~

- · 4 earthing contact socket outlets with built-in thermal cut-out, 1-pole
- $\cdot$  Right angle plug with dual earthing contact system, version with handle and winding crank



Power Bag, max. 16A/3600W, IP44

- · 4 sockets with earthing contact, splashproof to IP44
- $\cdot$  2.0 m H07RN-F 3G 1.50 mm^2
- $\cdot$  With carry handle and handy cable winding feature
- $\cdot$  Compact construction
- $\cdot$  Ideal for outdoor use



Art. no.	Version	Unit				
Power Bag	Power Bag with 4 earthing contact socket outlets and PRCD					
IP44						
393.011	Light grey/green     PRCD with test function	1 item				
	$\cdot$ Tripping current < 30 mA, tripping time < 30 ms					

# Solid rubber distributor, IP44

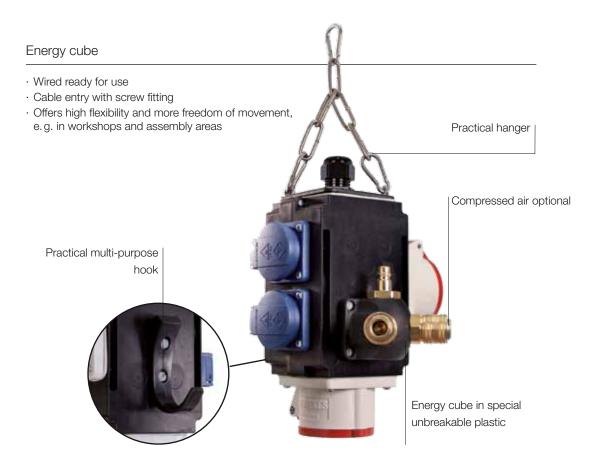
Solid rub	per distributor			
2.0 m sup	ply cable H07RN	I-F5G 6.00 mm ²		-
349.020	<ul> <li>Input:</li> </ul>	- 1x CEE plug 32 A/400 V~	1 item	
	· Output:	- 1x CEE socket 32A/400V~		
		- 2x CEE socket, 16A/400V~		
		- 3x earthing contact socket, 16A/250V~		
	· Protection:	- 1x MCB, 16A/3-pole		
		- 3x MCB, 16A/1-pole		
		- 1x RCD, 40A/0.03A/4-pole on all outputs		
2.0 m sup	ply cable H07RN	I-F3G 2.50 mm ²		
349.185	<ul> <li>Input:</li> </ul>	- 1x solid rubber earthing contact plug, 16A/250V~	1 item	
	· Output:	- 6x earthing contact socket, 16A/250V~		0
2.0 m sup	ply cable H07RN	I-F5G 2.50 mm ²		
349.184	· Input:	- 1x CEE plug 16A/400V~	1 item	
	· Output:	- 1x CEE socket 16A/400V~		
		- 3x earthing contact socket, 16A/250V~		

# CEE distributors, $250V \sim 400V \sim$ , IP44

# $\cdot$ Highly unbreakable plastic construction, splash water protected

- $\cdot$  Ideal for mobile use out of doors and on construction sites
- $\cdot$  With practical cable rewind and integral carrying handle

Art. no.	Version		Unit	
CEE distri	ibutor			
2.0 m sup	ply cable H07RN	I-F5G 2.50 mm ²		
349.008	· Input:	- 1x CEE plug 16A/400V~	1 item	
	· Output:	- 2x CEE socket, 16A/400V~		
		- 4x earthing contact socket, 16A/250V~		
CEE distri	ibutor with prot	ection		
4.0 m sup	ply cable H07RN	I-F5G 2.50 mm ²		
349.009	<ul> <li>Input:</li> </ul>	- 1x CEE plug 32 A/400 V~	1 item	
	· Output:	- 1x CEE socket 32A/400V~		
		- 1x CEE socket 16A/400V~		
		- 4x earthing contact socket, 16A/250V~		
	· Protection:	- 1x C16A automatic, 3-pole		
		- 2x C16A automatic, 1-pole		
349.010	<ul> <li>Input:</li> </ul>	- 1x CEE plug 32 A/400 V~	1 item	
	· Output:	- 1x CEE socket 32 A/400 V~		
		- 1x CEE socket 16A/400V~		
		- 4x earthing contact socket, 16A/250V~		
	· Protection:	- 1x RCD, 40A/0.03A/4-pole on all outputs		
		- 1x C16A automatic, 3-pole		
		- 2x C16A automatic, 1-pole		





Art. no.
Energy of
For cable
340 300

Version	
cube 4x earthi	ng contact
e diameters 3x	1.5 mm ² – 5x 1.5 mm ²

- For cable diameters 3x 1.5 mm² 5x 1.5 mm²

   349.300
   · 4 earthing contact socket outlets,16A/230V
- 349.301 · 4 earthing contact socket outlets,16A/230V
  - 1 compressed air point with 1/2" input and 2x 1/2" output



Energy cu	Energy cube 1x CEE, 4x earthing contact		
For cable of	liameters 5x 1.5 mm ² – 5x 2.5 mm ²		
349.302	· 1 CEE socket, 16 A/400 V, 5-pole		
	<ul> <li>4 earthing contact socket outlets,16A/230V</li> </ul>		
349.303	· 1 CEE socket, 16A/400V, 5-pole		
	<ul> <li>4 earthing contact socket outlets,16A/230V</li> </ul>		
	<ul> <li>1 compressed air point with ½" input and 2x ½" output</li> </ul>		



Energy cube, 2x CEE, 2x earthing contact		
For cable of	diameters 5x 1.5 mm ² – 5x 4 mm ²	
349.304	· 2 CEE socket outlets, 16A/400V, 5-pole	
	· 2 earthing contact socket outlets,16A/230V	
349.305	· 2 CEE socket outlets, 16A/400V, 5-pole	
	· 2 earthing contact socket outlets,16A/230V	
	<ul> <li>1 compressed air point with 1/2" input and 2x 1/2" output</li> </ul>	

# CEE wall combo outlet, 400V~/6h/5-pole, IP44, to IEC 309

Art. no.	Version	Unit	
CEE wall	combo outlet (must be fitted by a qualified technician)		
1x CEE wa	all socket 400V ~, 1x earthing contact socket outlet 250V ~		
<ul> <li>Polycarbo</li> </ul>	onate version with cable sleeve support, splash-proof		
910.002	· 16A	1 item	
	·Red		

O

# CEE adaptors, 400 V~, IP44

- Highly unbreakable plastic construction, splash water protected
- $\cdot$  Suitable for use out of doors and on construction sites, hanger included

Art. no.	Version			Unit
CEE adap	tor			
349.012	<ul> <li>Input:</li> <li>Output:</li> </ul>	1x CEE plug 16A/400V~ 1x CEE socket 32A/400V~		1 item
349.006	Input:     Output:	1x CEE plug 16A/400V~ 1x CEE socket 16A/400V~ 1x CEE socket 32A/400V~ 2x earthing contact socket outlet, 250V~		1 item
349.028	· Input:	1x CEE plug 16A/400V~		1 item
	• Output:	3x earthing contact socket, 16A/250V~		
349.033	· Input: · Output:	1x CEE plug 16A/400V~ 3x CEE socket outlet, 16A/400V~		1 item
0.40,000	Increase			1 ikawa
349.029	<ul> <li>Input:</li> <li>Output:</li> </ul>	1x CEE plug 16A/400V~ 1x CEE socket outlet 16A/400V~ 3x earthing contact socket outlet, 16A/250V~		1 item
Protection	: 3x 10A fus	e		
349.183	<ul><li>Input:</li><li>Output:</li></ul>	1x CEE plug 32A/400V~ 1x CEE socket outlet 16A/400V~		1 item
Protection	: 3x 10 A fus	e		
349.007	• Input: • Output:	1x CEE plug 32A/400V~ 1x CEE socket outlet 16A/400V~ 1x CEE socket outlet 32A/400V~ 1x earthing contact socket outlet, 250V~		1 item
CEE adap	tor with 1.5	m supply cable: H07RN-F5G 1.5 mm ²		
Screwed/rewirable				

CEE adap	tor with 1.5	m supply cable: H0/RN-F5G 1.5 mm ²	
Screwed/r	rewirable		
349.027	<ul> <li>Input:</li> </ul>	1x CEE plug 16A/400V~	1 item
	· Output:	3x earthing contact socket outlet, 250V~	
Screwed/r	rewirable		
349.035	<ul> <li>Input:</li> </ul>	1x CEE plug 16A/400V~	1 item
	· Output:	3x CEE socket outlet, 16A/400V~	

# Replacement parts

- · Fuse socket for CEE adaptor 900.1086
- · Fuse holder for CEE adaptor 900.1061

· Miniature fuse



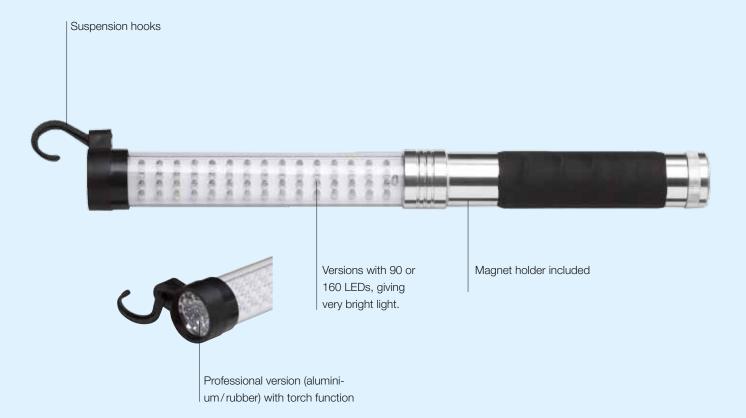












# LED BATTERY HAND LAMPS

The advan-

- tages at a Battery operation for flexibility
  - glance
- Approx. 4 hours of lighting from one battery charge Charge time approx. 4 hours
- 230V AC and 12V DC charger included

• LED technology offers very long service life

- LEDs are shock resistant
- Minimal heat generation

# LED battery hand lamp

- · Magnet holder
- Plastic
- Includes 230 V ~ mains adaptor
- Individually blister packaged

Art. no.	Version	Unit	
LED batte	ry hand lamps		
With autom	notive charging device		
394.188	60 LEDs with 1 magnet holder	20 items	
394.189	90 LEDs with 1 magnet holder	20 items	
394.190	160 LEDs with 2 magnet holders	20 items	$\sim$

PROFESSIONAL LED battery hand lamps		
394.191 · 60 + 17 LEDs for torch function, with 2 magnet holders	20 items	

# LED battery head torch

- · High light output and long life
- $\cdot$  Small size
- $\cdot$  Lamp can be swivelled through 90°
- $\cdot$  Adjustable rubber band gives flexibility to wear the lamp on your head or arm
- $\cdot$  Uses include work, sport and leisure

Art. no.	Version	Unit	
LED batte	ry head torch		IFICO
19 LEDs			
394.200	<ul> <li>Includes 230V~ mains adaptor</li> </ul>	1 item	
	$\cdot$ Switch between 4 modes: press 1x = 1 LED, press 2x = 7 LEDs		dille.
	Press $3x = 19$ LEDs, press $4x = 19$ LEDs flashing		

### Stick lamp, 8 W, IP20

- · 8W fluorescent lamp
- · Not replaceable. With built-in reflector
- · Electronic ballast unit built into handle, 50 Hz
- · Plastic construction with shock resistant protection tube and rotatable hook
- $\cdot$  5.0 m H05VV-F 2x 0.75 mm² supply cable with Europlug, 2.5A
- · IP20, including illuminant

	<ul> <li>5.0 m H05VV-F 2x 0.75 mm² supply cable with Europlug, 2.5 A</li> <li>IP20, including illuminant</li> </ul>	
	Art. no. Version	Unit
	Stick lamp	Length without hook: 46.5 cm
~	IP20	
	394.184 · Black	1 item

## Professional stick lamp with energy-saving illuminant, 11 W/250 V~, IP54

- · 11 W energy-saving lamp
- $\cdot$  Replaceable, anti-glare, giving a pleasant light
- $\cdot$  Oil resistant rubber construction with shock-resistant protective tube
- Integral reflector and robust hanging hook
- · 5.0 m H05RN-F 2x 1.00 mm² rubber cable with contour plug
- · Splash-proof and dustproof design
- · Includes illuminant (Dulux S 11 W)



Art. no. Version		Unit
Professional stick lamp	Length/width	n: 40 cm/4.5 cm
IP54, protection class II, double insulated		
720.006 · Black		1 item

## Rubber hand lamp and general purpose lamp, 100W/250V~, IP44

- · 100W general purpose E27 illuminant,
- · Replaceable, with protective glass
- · Oil resistant rubber construction
- · Metal basket with integrated hook, illuminant not included



Art. no.	Version		Unit		
Rubber ha	and lamp	Length/v	vidth: 40 cm/4.5 cm		
IP44, prote	ection class II, double insulated				
394.183	<ul> <li>· 5.0 m H05RN-F 2x 0.75 mm² supply cable with plug</li> <li>· Black</li> </ul>		1 item		
IP 40, with	out cable				
394.187	· Black		1 item		
Replaceme	Replacement glass				
910.1011	· Protective glass		1 item		

# Halogen spotlight, 150W, with earthing spike, 16A/230V~, IP44

Art. no.	Version		Unit	
Halogen s	potlight			
IP44				
• 1.5 m cab	ble: H05RN-F 3G 1.00 mm ² with central plug with earthing contact			
· Die-cast a	aluminium housing with cooling fins			
<ul> <li>Lamp bod</li> </ul>	dy can be rotated and swivelled			T
<ul> <li>Illuminant</li> </ul>	included			<u> </u>
394.181	· Black		1 item	-
	1			

# E27 holder with earth spike, 16A/230V~, IP44

E27 holder with earth spike, 16A/230V~, IP44			
Art. no. Version		Unit	
E 27 holder with earth spike			
IP44			
· 2.0 m cable: H05RN-F 2x 1.00 mm ² with contour plug			
· Plastic housing with seal, splash-proof			
· Lamp body can be swivelled			
<ul> <li>For use only with PAR38 80W illuminant (not included)</li> </ul>			
720.000 · Black		1 item	- 1
	ŗ		1



# PROFESSIONAL WORK LAMP

For use on construction sites.

The advantages at a

glance

Includes 4000 kelvin illuminant

• Uses energy-efficient fluorescent lamps

- Splashproof and dust-resistant construction, IP44, protection class ||
- Infinitely adjustable support bracket for positioning
- Can be stand mounted
- Version with integrated earthing contact socket
   outlets

# Professional work lamps

- · Shadow free and comfortable light.
- Dimensions: 55 x 29 x 11 cm, weight: 5.5 kg.
- 250 V~ earthing contact socket outlets fitted in rear of housing to allow other equipment to be connected (part nos. 720.020 and 720.021).
- $\cdot$  Example applications: workshops, tradesmen, ideal for outdoor use and on construction sites.

# Art. no. Version

Profession	nal work lamp	Black
720.022	· 36W (2x 18W), 2900 lumen, without earthing contact socket outlet	
720.020	· 72W (2x 36W), 5800 lumen, with 2 earthing contact socket outlets	
720.021	· 108W (2x 36W), 8700 lumen, with 1 earthing contact socket outlet	



## Professional stand

- Robust tripod construction, zinc-plated, with mounting pate and fixing screws and handy cable winding point.
- · Height adjustable up to 2.50 m
- · Weight: 6 kg

Art. no. Version

Professio	nal stand	Silver
730.004	· Robust construction finished in silver	



# Mobile halogen lamp, 400W, IP44



Art. no. Version Mobile halogen lamp	Unit
IP44	
· 2 m cable: H05W-F3G 1.00 mm ² with plug	
· 400 W R7S halogen bulb included	
· Die-cast aluminium housing with cooling fins	
$\cdot$ Steplessly adjustable frame in black with carrying handle	
720.013 · Black	1 item



Halogen lamp with stand, 400W, IP44		
Art. no. Version		Unit
Mobile halogen lamp		
IP44		
· 2 m cable: H05VV-F3G 1.00 mm ² with plug		
· 400 W R7S halogen bulb included		
<ul> <li>Die-cast aluminium housing with cooling fins</li> </ul>		
$\cdot$ Stand with die-cast aluminium articulation, height adjustable up to 2 m		
With handy cable winding point		
· For outdoor use		
722.009 · Stand colour yellow, load 5-7 kg · Mobile halogen lamp		1 item



Lamp holders

Art. no.	Version	Unit
Lamp hold	der, pre-wired	
E 27		
· 60 W plast	tic E 27 holder	
• 0.2 m H03	3VV-F2x 0.75 mm ²	
<ul> <li>Black</li> </ul>		
<ul> <li>Supplied i</li> </ul>	in quantities of 20 only	
641.170	· With 2-pole lustre terminal block	20 items
641.171	· With clamp terminal	20 items

# MAXI series 1000 silicon housing

See also page 277



· For halogen cold-light mirror lamps, diameter 51 mm, 12V~, 35 W maximum

· Do not use Cool Beam illuminants

· Triple insulated, with cable, without illuminant

Art. no. Version	Unit
MAXI series 1000 silicon housing	
With ceramic lamp holder	
924.224 · Transparent	1 item
924.225 · White	1 item
With ceramic lamp holder, unit is one bag of 50, loose	
924.332 · White	500 items
Without ceramic lamp holder, unit is one bag of 50, loose	
924.334 · White	500 items

Series 1002 decorative rings		
For MAXI s	eries 1000 silicon housing	
924.231	· Chrome	20 items
924.250	Matt brushed stainless steel	20 items

## MAXI silicon housing for low-voltage recessed halogen spotlights

The MAXI silicon housing consists of a high-tech, high temperature-resistant elastomer with exceptional properties that will suit a wide range of applications:

- · Totally rust-free
- · Resistant to UV, ozone and ageing
- · Heat and cold resistant
- · Excellent resistance to weather and maritime environments
- · Patented
- $\cdot$  Quick and easy to assemble and dismantle
- · No fitting of individual components
- · Bulb changes without tools
- · No troublesome metal rings

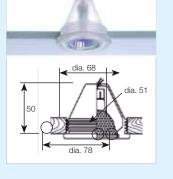
- $\cdot$  Can also be used for shops and exhibition stands (to match decor!)
- $\cdot$  Quick mounting technology Fitting without springs

## Can be fitted in:

- · Solid material of various thicknesses
- · Fragile materials such as rigips, fibreboards, fixing plates, etc.

· EFS 600/200-260V~, 18-125W

924.168



See also page 277

10 items

Art. no.	Version		Unit
8600 serie	s pulse starters		
Instant igni	tion (rapid starter)		
	scent lamps; cuts maintenance and illuminant replacement costs, environm $\cdot$ 30 °C to +75 °C, ENEC approved	entally frienc	lly, 10-year
924.167	· EFS 120/110-250V~, 15-22W		10 items





# PERSONAL CIRCUIT BREAKERS (PRCD)

Personal circuit breakers with protective conductor monitoring

## Recommended by the German Employers' Liability Association:

Designed as an intermediate device on power cords, this is a portable differential current protection device that isolates all poles and features electronic residual current evaluation. For alternating, pulsed DC and phase-controlled rated residual currents of 10 or 30 mA. With undervoltage tripping, protective conductor recognition and monitoring as well as external voltage detection. When the PRCD-S detects an external voltage on the protective conductor, it does not interrupt this conductor. This allows the external current to trip its own upstream RCD or MCB protectors. Extension cable with mobile PRCD-S circuit breaker, 230 V~, 16 A, 30 m A, IP44

- · Cable lengths: plug PRCD-S: 0.15 m
  - PRCD-S coupling: 3.0 m
- $\cdot$  Portable PRCD-S circuit breaker fitted with H07RN-F 3G 1.5 mm² cable
- $\cdot$  Supplied in a robust case

Art. no.	Version	Unit	610
Mobile PR	CD-S personal circuit breaker		
1x protectiv	ve conductor monitoring		
· End 1: sol	id rubber right angle plug with 2 earthing contact systems		
· End 2: sol	id rubber coupling with cover, protection type IP44		
919.014	· Black	1 item	00
1x protectiv	ve conductor monitoring		
· End 1: sol	id rubber right angle plug with 2 earthing contact systems		
· End 2: sol	id rubber coupling, 3-way with cover, protection type IP44		
919.015	· Black	1 item	

# PRCD-S 230V~, 16A, 30mA, IP55

- $\cdot$  For cable cross section 1  $mm^2$  2.5  $mm^2$
- $\cdot$  Test marks by BG (German employers' liability association), Cologne SEV, VDE, GS

Art. no. Version	Unit
PRCD-S	
1x protective conductor monitoring	
· PRCD-S	
Rated residual current 30 mA	
919.016 · Black	1 item

# PRCD-K 230V~, 16A, 30mA, IP55

- For cable cross section 1 mm² 2.5 mm²
- · Test marks VDE, TÜV, GS

Art. no. Version	Unit	
PRCD-K		
1x differential current protection device 1x undervoltage tripping device		
919.018 · Black	1 item	_

The advan-	<ul> <li>Specially designed as a protective distributor for small construction sites as</li> </ul>
tages at a	recommended by the BGFE employers' liability association, Cologne (ZH1/271),
glance	and for all portable electrical equipment.
	Can be used irrespective of connector system
	Undervoltage tripping
	Offers protection as specified by DIN VDE 0661 in the event of a fault in the
Scope of pro-	connected equipment. Fault currents arising from faulty consumers will cause
tection	the PRCD-S to interrupt all poles.
	• For system faults in the fixed installation, The PRCD-S detects all faults in the
	fixed installation and cannot then be switched on.



00

# PRCD ADAPTOR 16 A/250 V~/50 Hz/3680 W

- · 2-pole interrupt (L, N) with undervoltage tripping; tripping current < 30 mA, tripping time < 30 ms
- · Tested to: EN 61008-1:1994+A2+A11, EN 61008-2-1/08.94 IEC 884-1/A1/12.94





Art. no.	Version		Unit
PRCD ada	iptor		
Plug with F	PRCD, hinged lid, IP44		
919.284	·White		50 items
		·	
PRCD cab	le mount plug		
Plug with F	PRCD, IP44		
919.183	Suitable for up to H05RNF-F3 1.5 mm ² rubber cable		50 items
	· Black		

# PRCD personal circuit breaker, 16A/250V~/3600W

- · 2-phase, 2-pole interrupt (L, N) with undervoltage tripping
- · Tested to: TÜV GS/KEMA: EN 61008-1-1994+A2+A11, EN 61008-2-1/08.94, IEC 884-1/A1/12.94, IEC 884-1/06.94
- $\cdot$  In accordance with the IEC standard the protective earth (PE) conductor is not interrupted

Art. no.	Version	Unit
PRCD per	sonal circuit breaker	
IP44		
919.190	<ul> <li>Tripping current &lt; 10mA</li> <li>Tripping time &lt; 10ms</li> <li>Black</li> </ul>	1 item
IP55		
919.189	<ul> <li>Tripping current &lt; 30mA</li> <li>Tripping time &lt; 30ms</li> <li>Black</li> </ul>	1 item

# Earthing contact extension cable with PRCD 16A/250V~/3600W

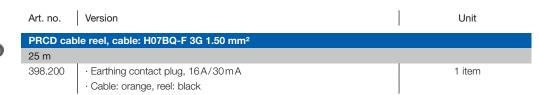
- 3.0 m HO7BQ-F3G 1.5 mm², with PRCD personal circuit breaker 919.189 fitted at approx. 1.5 m
- · Individually packaged in plastic bag

E	
<u> </u>	

Art. no.	Version	Unit
Earthing c	ontact extension	
With PRCE	919.189	
341.880	• End 1: cable mount plug 913.173     • End 2: cable mount coupling 919.177	1 item
	End 2: cable mount coupling 919.177	
	· Black/orange	

# Cable reel with portable RCD, 3-way

- · 3 earthing contact socket outlets with hinged lid and thermal cut-out, 1-pole
- · Reel body in unbreakable hard rubber







# **OVERVOLTAGE ADAPTORS / ENERGY METERS**

# Overvoltage protection adaptor, 16A/230V~/50Hz/3680W

Art. no.	Version	Unit
	rervoltage protection adaptor tage protection adaptor with visual function and fail indicator (100 x 56.5	x 76 mm)
919.003	<ul> <li>White</li> <li>Short-circuiting resistance to 4.5 kA</li> <li>Max current peak 4500 A for pulses of 8/20 µ</li> <li>Maximum overvoltage : 6000 V</li> <li>Max. energy intake: 165 J for pulses of 10/100 µ response time &lt; 1 ns</li> <li>Child-proof</li> </ul>	1 item
1x univers	al overvoltage protection adaptor with protection for ISDN, TEL and TV (1	177.9 x 62 x 33 mm)
919.004	<ul> <li>IP20</li> <li>Short-circuiting resistance to 4.5 kA</li> <li>Visual function and fail indicator</li> <li>Max current peak 4500 A for pulses of 8/20 µ</li> <li>Maximum overvoltage : 6000 V</li> <li>Response time &lt; 1 ns</li> <li>Child-proof</li> <li>White</li> </ul>	1 item
1x overvol	tage protection adaptor (177.9 x 62 x 33 mm)	
919.005	<ul> <li>With 8-level LED overload indicator, IP 20</li> <li>Visual function and fail indicator</li> <li>White</li> </ul>	1 item
	<b>ge protection adaptor</b> tage protection, 1x varistor, max. discharge current 4.5 k A per varistor, vi	sual function indicator
920.000	· White	10 items

# Energy meter, 200-250V~

 $\cdot$  Resolution: 1 V ~, precision FS: 0.5% + -3

Digital readout of: power consumption, energy costs, CO2 emissions, measurement time, cost forecast, voltage, current, effective power

Art. no.	Version	Unit
Energy me	eter	
1x low-pov	ver detector for minimal standby consumption	
852.982	Intuitive 3-button operation	1 item
	·White	





Mechanical timer switches



- $\cdot$  Mechanical timer switches, 24h, 16A/230V~/3680 W:
- · Plastic version, child-proof, easy to use, operating manual included



Art. no.	Version			
Mechanica	al timer switch			
852.101	·White			
	Shortest switching interval: 15 minutes			
	$\cdot$ Up to 96 switch-on and switch-off times per day (24 h)			
	· 121 x 74 x 76 mm (L x W x H)			
IP\$\$ timer				
 1x splash v	vater protection (IP 44)			
852.102	· With transparent hinged lid			
	· Suitable for use in damp environments			
	· Operating temperature range: -25 °C to +55 °C			
	Shortest switching interval: 15 minutes			
	$\cdot$ Up to 96 switch-on and switch-off times per day (24 h)			
· 150 x 74 x 82 mm (L x W x H)				
Mini timer switch (mechanical)				
852.104	· White			
	· Shortest switching interval: 30 minutes			
	· Up to 48 switch-on and switch-off times per day (24 h)			

Switch to override timer function
103 x 54 x 70 mm (L x W x H)

# Digital timer switch, 24h, 16A/230V~/3680W

- Plastic version with LCD display, child-proof, easy to use, manual included, built-in rechargeable battery; shortest switching interval: 1 minute
- Programmable by the day or by the week, built-in random generator, countdown function, resettable



Art. no. Version

Digital timer switch			
852.103	· White		
	· 120 x 64 x 76 mm (L x W x H)		

# Travel plug adaptor, 16A/250V~

- $\cdot$  Earthing contact system adaptor with storage bag and interchangeable country adaptors
- · Suitable for: Red Liechtenstein/Switzerland
  - Green Chile/Greece/Italy Blue Africa/Asia/Commonwealth countri
    - Blue Africa/Asia/Commonwealth countries/UK/Ireland/Middle East
  - Black CIS/Japan/Canada/Central and South America/South and East Asia/USA
  - Yellow Australia/New Zealand and parts of China



Note: These adaptors are not voltage converters. They are not suitable for long-term use.





MII

Travel plugs, 3-pole

Travel plu	ugs, 3-pole		KEMA approved
Art. no.	Version	Unit	
Travel plu	ug adaptors		
1 x earthir	ng contact with 5 country-specific inserts		
914.672	· Black, with travel pouch	10 items	
	The only travel plug approved by KEMA		
	· Italy, UK, Ireland, Africa, Asia		
	· USA, Canada, Japan, Switzerland, Liechtenstein		
	China, Australia, New Zealand		
Travel plu	ugs, 3-pole		_
Socket: e Plug colo	earthing contact our: white		
Art. no.	Version	Unit	
Travel plu	ıg, 15A/125V~	USA/earthing contact	
3-pole			C. ····
921.004	Plug pins: USA	10 items	
	ıg, 10/16A/250V~	France/earthing contact	
3-pole	, Diug ping: France, Relaium, Czech Republic, Beland	10 itoma	
921.005	· Plug pins: France, Belgium, Czech Republic, Poland	10 items	
Travel plu	ıg, 10A/250V~, max. 1500W	Italy/earthing contact	
3-pole			
921.006	· Plug pins: Italy, Spain	50 items	
	ıg, 13A/250V~	UK/earthing contact	""
	ure fuse, 3-pole		
921.010	Plug pins: UK/Ireland/Malta/Hong Kong/Cyprus	10 items	
000 1077	Includes miniature 13 A fuse, replaceable	1 item	- 🔫 🤜
900.1077	Replacement 13 A miniature fuse	1 item	
Travel plu	ıg, 10A/250V~	Switzerland / earthing contact	
3-pole			W
921.011	Plug pins: Switzerland	100 items	+ 711
	ıg, 10A/250V~	Australia/earthing contact	
3-pole 921.014	· Plug pins: Australia	10 items	
JZ1.014	' i iug pilis. Australia	I I U ILEITIS	

Note: These adaptors are not voltage converters. They are not suitable for long-term use.

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	-	Travel plugs	s, 2-pole	Note: These adaptors are f	or 2-pole power systems only
		· Plug colour	: white		
		Art. no.	Version		Unit
		Travel plug,	13A/250V~		UK/Euro and contour
		1x miniature			
			<ul> <li>Includes miniature 13A fuse, replaceable</li> <li>Plug pins: UK/Ireland/Malta/Hong Kong/C</li> <li>Socket: Euro/contour plug</li> </ul>	Cyprus	10 items
		Travel plug	set		
		2-pole			
		•	lifferent plug adaptors		
		- 1. Suitable	for Southern Europe: France, Greece, Polanc	l, Italy, Spain, Turkey, Czech R	epublic
		- 2. Suitable	for the Americas: Asia, Far East, Canada, Ce	ntral and South America, USA	
C. P. C. P. C. P.		- 3. Suitable	for old UK system: Africa, China, Hong Kong	, India, Caribbean, Sri Lanka	
		914.270	·White		25 items
		Single trave	l pluas		
10 · Ca		2-pole			
62.00		914.271	· Suitable for Southern Europe: France, Gree	ce, Poland, Italy,	25 items
			Spain, Turkey, Czech Republic		
	1	Single trave	al plugs		
		2-pole	n piugo		
S			· Suitable for the Americas: Asia, Far East, C	anada,	25 items
			Central and South America, USA		
		~			
1000		Single trave	el plugs		
		2-pole 914.273	Suitable for the old UK system: Africa, Chin	a Hong Kong	25 items
100 B		314.210	India, Caribbean, Sri Lanka		
		I	mana, cambouri, on curna	I	

Adaptors for the earthing contact system

Art. no.	Version	Unit	
Travel plu	g, 10/16A/250V~ ear	thing contact/universal	
2-pole and	1 3-pole		AN 1913
	earthing contact/Germany/France/Belgium, with dual earthing contact syste		and at a
921.000	· Socket: universal, suitable for all standard plugs worldwide, child-proof	10 items	
	· Grey		
Travel plu	g, 15A/125V~	earthing contact/USA	
3-pole			
· Plug pins:	earthing contact/Germany/France/Belgium, with dual earthing contact syste	m	
921.003	· Socket: USA	10 items	
	·White		-
Travel plu	g, 10/16A/125V~ earthin	g contact/France (UTE)	
3-pole			
<ul> <li>Plug pins:</li> </ul>	: earthing contact/Germany		11 1
921.002	· Socket: Belgium/France/Poland/Slovakia/Czech Republic	25 items	
	·White		
Travel plu	g, 10A/220V~ max. 2200W	earthing contact/UK	
3-pole			SP C.
<ul> <li>Plug pins</li> </ul>	earthing contact/Germany/France/Belgium		
921.001	· Socket: UK, child-proof	10 items	
	·White		
Travel plu	g, 10A/250V~ earthi	ng contact/Switzerland	6.00
3-pole			Car ( )
<ul> <li>Plug pins</li> </ul>	earthing contact/Germany		
921.012	· Socket: Switzerland	10 items 🕂	
	·White		
Converter	⁻ plug, 10 A/250 V~	earthing contact/Italy	1. 500
3-pole			11
	: earthing contact/Germany		
921.013	· Socket: Italy	10 items	
	· White		

Adaptors

Note: These adaptors are not voltage converters. They are not suitable for long-term use.







The advantages at a

- glance
- Patented "all-in-one" country-specific slider system
- Recipient of function and design awards
- Market leader for high-quality multi-adaptors, country-specific travel adaptors and powerful USB charging devices

# DESIGNED IN SWITZERLAND

# Travel plugs / travel adaptors

Art. no.	Version	Dimensions: (L x W x H)	
SKROSS T	Travel plugs and adaptors		
World adap	otor EVO, 100 – 240 V, max. 1300 W, white		
110.2100	<ul> <li>Suitable for all 2-pole devices (without earthing)</li> <li>Input end: Euro, UK, USA/Japan, Australia/China</li> <li>Slide-out connector: Euro, UK, USA/Japan, Australia/ China</li> <li>Integrated protection</li> </ul>	• 64 x 55 x 50 mm	1 20
	Smart phone Show Mart physe Cannon Canno Canno Canno Canno Canno Canno Canno Canno Canno Cann		

	ravel plugs and adaptors		and the second se
World adap	otor PRO, 100 – 250 V, max. 2500 W, white		- T
110.3118	Suitable for all earthed and non-earthed devices (2 and 3 poles)	· 72 x 54 x 57 mm	
	Input end: Europe (earthing contact)		
	<ul> <li>Slide-out connector: Italy, Switzerland, UK, USA, Australia/China</li> </ul>		TTO
	Integrated protection		
	≈¶? 🕒 🦁 🖧 💶 💿 🙉 🐻 😭 🗍		

SKROSS T	SKROSS Travel plugs and adaptors				
World adap	World adaptor Evo USB, 2-pole & USB charging device, 100V-240V, max. 1300W, USB 5V/max. 1000mA				
130.2101	· Suitable for all 2-pole devices (without earthing)	· 64 x 55 x 69 mm			
	· Input end: Euro, UK, USA, Australia/China	(incl. USB top)			
	· Slide-out connector: Euro, UK, USA, Australia/China				
	• Dual USB top for charging 2 USB devices at the same time				
	Integrated protection				
	· USB output 5V/1000mA				
	Smartphone Sharer M93 player Cames Game concole GPS Camecoder TablePC				

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# Travel plugs / travel adaptors

	Art. no.	Version	Dimensions: (L x W x H)
		<ul> <li>Travel plugs and adaptors</li> <li>adaptor, suitable for protection class I and II devices, 3-</li> <li>Input end: Europe (earthing contact), France, Germany</li> <li>Output end: USA</li> <li>Power: max. 15A/125V~</li> </ul>	pole, white • 53 x 60 x 63 mm
- 32	150.0205	<ul> <li>Input end: Europe (earthing contact), France, Germany</li> <li>Output end: Switzerland</li> <li>Power: max. 10A/250V~ (integrated fuse)</li> <li>Survey Sinutphone Size (Jappa Contact)</li> </ul>	· 53 x 60 x 72 mm
	150.0207	<ul> <li>Input end: Europe (earthing contact), France, Germany</li> <li>Output end: UK</li> <li>Power: max. 13A/250V~ (integrated fuse)</li> <li>Power: max. 13A/250V~ (integrated fuse)</li> </ul>	• 57 x 64 x 64 mm
8.	150.0209	<ul> <li>Input end: Europe (earthing contact), France, Germany</li> <li>Output end: Australia</li> <li>Power: max. 10A/250V~</li> <li>Power: max. 10B/250V (and the second seco</li></ul>	· 53 x 60 x 62 mm
	150.0212	<ul> <li>Input end: Europe (earthing contact), France, Germany</li> <li>Output end: Italy</li> <li>Power: max. 16A/250V~</li> <li>Power: max. 16A/250V~</li> <li>Power: max. 16A/250V</li> <li>Power: max. 16A/250V</li> <li>Converse Construction</li> <li>Converse Construction</li> <li>Converse Construction</li> </ul>	• 60 x 52 x 66 mm
	150.0211	<ul> <li>Input end: Australia, China/UK/USA/Italy/Europe (2-pole)/Switzerland</li> <li>Output end: Europe (earthing contact), France, Germany</li> <li>Power: max. 16A/250V~</li> <li></li></ul>	• 58 x 58 x 45 mm

## Travel plugs / travel adaptors



· Output voltage: 5.0 +/-0.25V





Adaptors

Adaptors are not voltage converters and are not suitable for long-term use.

The input voltage of the device to be connected must match the voltage of the local supply grid.

# Euro plug, 2.5A/250V~

· Plastic version

Art. no.

Euro plug

910.171

- · Packaged version: contains 3 items in plastic bag supplied in quantities of 3 only
- $\cdot$  May only be supplied to end user pre-wired
- · Only to be wired by qualified technicians
- $\cdot$  For cables up to H05VV-F 2x 0.75 mm^2

Version

With crimp terminals; unpackaged

· Black





910.271	·White	25 items		
Euro plug				
With screw	r terminal, packaged			
900.010	· Black	3 items		
900.011	· White	3 items		
With screw	With screw terminal, unpackaged			
900.002	· Black	100 items		
900.003	·White	100 items		

Unit

25 items

Unit

25 items

25 items

# Euro coupling, 2.5 A/250 V~

Version

With crimp terminals; unpackaged

Black

· White

· Plastic version

Art. no.

912.171

912.271

Euro coupling

- · Packaged version: contains 3 items in plastic bag supplied in quantities of 3 only
- $\cdot$  May only be supplied to end user pre-wired
- · Only to be wired by qualified technicians
- $\cdot$  For cables up to H05VV-F 2x 0.75 mm^2



	·
-11-11-1	

Euro coupling				
With screw terminal, packaged				
900.012	· Black	3 items		
900.013	·White	3 items		
With screw terminal, unpackaged				
900.004	·Black	100 items		
900.005	·White	100 items		

# Earthing contact plug, 16A/250V~



Art. no.	Version		Unit
Earthing c	ontact mounting plug		
H05VV-F 3	G 0.75/1.0/1.5 mm ²		
<ul> <li>With dual</li> </ul>	earthing contact system and nickel-plated contacts, for e.g. Germany and	France	
<ul> <li>Small unb</li> </ul>	reakable construction with separate strain relief, no small parts to lose		
910.100	· Black		10 items
910.200	·White		10 items

Art. no. Ver	sion	Unit
DIN 49441 cent	tral earthing contact plug	
H05VV-F 3G 1.0	) mm²	
· Small unbreaka	able construction in plastic, with strain relief	
910.170 · B	ack	40 items
910.270 · W	/hite	40 items
910.470 · B	rown	40 items
	tral earthing contact plug	
H05VV-F 3G 1.0		
	able construction in plastic, with strain relief	
910.971   · G	rey	25 items
	ig with earthing contact	
H05VV-F 3G 1.5		
	able construction in plastic, with lateral earthing contact	
-	lack	50 items
911.272 · W	hite	50 items
	ng contact plug/angled	
H05VV-F 3G 1.5		
	onstruction, with side entry	
	lack	40 items
	/hite	40 items
911.470 · B	rown	40 items
Right angle ea	rthing contact plug with switch	
H05VV-F 3G 1.5	50 mm ²	
· Unbreakable co	onstruction in plastic, with 2-pole rocker switch	
911.171 · B	lack	20 items
911.271 · W	hite	20 items
Right angl <u>e ea</u>	rthing contact plug with control switch	
H05VV-F 3G 1.5		
· Unbreakable co	onstruction in plastic, with 2-pole illuminated rocker switc	h
	/hite	20 items



~

# Earthing contact coupling, 16A/250V~

Art. no.	Version	Unit
Earthing c	ontact coupling	
H05VV-F 3	G 1.5 mm ²	
<ul> <li>Small unb</li> </ul>	reakable construction in plastic	
912.170	· Black	50 items
912.270	·White	50 items
912.470	· Brown	50 items

# Earthing contact coupling H05VV-F 3G 1.5 mm²

· Large unbreakable construction in plastic, with protective rubber sleeve

912.971 · Grey







6

-	to cables up to H07RN-F 3G 2.50 mm ² be supplied to end user pre-wired	
	wired by qualified technicians	
Art. no.	Version	Ur
Rubber pl	IQ	
IP44, DIN 4		
	astic insert with dual earthing	
	ble for France and Belgium	
· Rotatable	strain relief for different cable cross-sections	
913.171	· Black	20 ite
IP44, DIN 4	19441-2-AR1	
	ble thermoplastic insert with earthing contact	
	sed snap latch and protective rubber sleeve	
	nd terminal block at side	
<ul> <li>Temperati</li> </ul>	ire range -40 °C to 70 °C	
913.172	· Black	20 ite
Rubber co	upling	
DIN 49440		
	astic insert with earthing contact and strain relief	 
913.174	· Black	10 ite
IP44, DIN 4	9440	
<ul> <li>Thermopla</li> </ul>	astic insert with earthing contact and strain relief	
<ul> <li>With cove</li> </ul>	r	
919.176 Solid rubk	• Black ber plug and coupling, 16A/250V~	10 ite
Solid rubk • May only	Black er plug and coupling, 16A/250V~ es supplied to end user pre-wired wired by qualified technicians	10 ite
Solid rubb May only I Only to be	per plug and coupling, 16A/250V~	
Solid rubb May only I Only to be	ber plug and coupling, 16A/250V~	
Solid rubb May only l Only to be Art. no. Solid rubb	ber plug and coupling, 16A/250V~	
Solid rubb May only to Only to be Art. no. Solid rubb IP44, DIN 4 · For fitting	ber plug and coupling, 16 A/250 V~	
Solid rubb May only lo Only to be Art. no. Solid rubb IP44, DIN 4 · For fitting · Solid rubb	ber plug and coupling, 16 A/250 V~	
Solid rubb May only lo Only to be Art. no. Solid rubb For fitting Solid rubb Solid rubb Standardi	ber plug and coupling, 16 A/250 V~ be supplied to end user pre-wired a wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve	
Solid rubb May only lo Only to be Art. no. Solid rubb IP44, DIN 4 · For fitting · Solid rubb · Standardi · Screws ar	er plug and coupling, 16A/250V~ be supplied to end user pre-wired a wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side	
Solid rubb May only lo Only to be Art. no. Solid rubb For fitting Solid rubb Standardi Screws ar Temperati	ber plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C	Uni
Solid rubb May only lo Only to be Art. no. Solid rubb IP44, DIN 4 · For fitting · Solid rubb · Standardi · Screws ar	er plug and coupling, 16A/250V~ be supplied to end user pre-wired a wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side	Uni
Solid rubk May only lo Only to be Art. no. Solid rubb IP44, DIN 4 · For fitting · Solid rubk · Standardi · Screws ar · Temperatu 913.173	ber plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C	Un
Solid rubb May only to be Only to be Art. no. Solid rubb (P44, DIN 4 · For fitting · Solid rubb · Standardi · Screws ar · Temperatu 913.173 Solid rubb	beer plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 99441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve ad terminal block at side ire range -40 °C to 70 °C • Black	Un
Solid rubk May only lo Only to be Art. no. Solid rubb P44, DIN 4 · For fitting · Solid rubb · Standardi · Screws ar · Temperatu 913.173 Solid rubb IP44, DIN 4	ber plug and coupling, 16A/250V~   De supplied to end user pre-wired De wired by qualified technicians Version P9441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve ad terminal block at side ure range -40 °C to 70 °C · Black er right angle plug	Un
Solid rubb May only to be Only to be Art. no. Solid rubb P44, DIN Solid rubb Standardi Screws ar Temperatu 913.173 Solid rubb IP44, DIN For fitting	ber plug and coupling, 16 A/250 V~   De supplied to end user pre-wired De wired by qualified technicians Version Plug P9441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C · Black P9441-2-AR1	Un
Solid rubb May only lo Only to be Art. no. Solid rubb P44, DIN 4 · For fitting · Solid rubb · Standardi · Screws ar · Temperatu 913.173 Solid rubb IP44, DIN 4 · For fitting · Robust in	ber plug and coupling, 16 A/250 V~   De supplied to end user pre-wired De wired by qualified technicians Version P9441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact aed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C • Black P9441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ²	Un
Solid rubb May only to be Only to be Art. no. Solid rubb P44, DIN 4 Solid rubb Standardi Screws ar Temperatu 913.173 Solid rubb IP44, DIN 4 For fitting Robust in Standardi Standardi Standardi	ber plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C • Black er right angle plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² et a state of the sleeve and terminal block at side ure range -40 °C to 70 °C • Black et right angle plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² dustrial version with solid rubber insert and earthing contact sed snap latch amps and metal strain relief	Un
Solid rubb May only to be Only to be Art. no. Solid rubb P44, DIN 4 Solid rubb Standardi Screws ar Temperatu 913.173 Solid rubb IP44, DIN 4 For fitting Robust in Standardi Standardi Standardi Standardi Standardi	ber plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C • Black er right angle plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² et all terminal block at side are range -40 °C to 70 °C • Black et right angle plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² dustrial version with solid rubber insert and earthing contact sed snap latch amps and metal strain relief and terminal block at side	Un
Solid rubb May only to be Art. no. Solid rubb IP44, DIN 4 Solid rubb Solid rubb Standardi 913.173 Solid rubb IP44, DIN 4 For fitting Robust in Standardi Standardi Standardi Standardi Temperatu	ber plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 99441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve id terminal block at side ire range -40 °C to 70 °C • Black er right angle plug 99441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² etail terminal block at side are right angle plug 99441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² dustrial version with solid rubber insert and earthing contact sed snap latch armps and metal strain relief and reminal block at side are range -40 °C to 70 °C	Uni 20 ite
Solid rubb May only to be Only to be Art. no. Solid rubb P44, DIN 4 Solid rubb Standardi Screws ar Temperatu 913.173 Solid rubb IP44, DIN 4 For fitting Robust in Standardi Standardi Standardi Standardi Standardi	ber plug and coupling, 16A/250V~   be supplied to end user pre-wired be wired by qualified technicians Version er plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² er insert with earthing contact sed snap latch and protective rubber sleeve and terminal block at side ure range -40 °C to 70 °C • Black er right angle plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² et all terminal block at side are range -40 °C to 70 °C • Black et right angle plug 19441-2-AR1 to cables up to H07RN-F 3G 2.50 mm ² dustrial version with solid rubber insert and earthing contact sed snap latch amps and metal strain relief and terminal block at side	10 ite

# PLUGS / COUPLINGS

Art. no.	Version		Unit	
Solid rubb	per contour plug, 2-pole			
<ul> <li>For fitting</li> </ul>	to cables up to H07RN-F 2x 2.50 mm ² , without earthing contact			
<ul> <li>Snap latc</li> </ul>	h; may only be supplied to end user pre-wired			1 Martin
$\cdot$ Only to be	e wired by qualified technicians			1 De
919.179	· Black		20 items	
Solid rubb	per coupling			
DIN 49440	)-2-D-AR1			
$\cdot$ For fitting	to cables up to H07RN-F 3G 2.50 mm², temperature range -40 $^\circ\text{C}$ to 70 $^\circ\text{C}$			
	per insert with earthing contact and screws to side			1 4 5 -
	dustrial version with surface clamps and standardised snap latch			
913.175	·Black		10 items	•
	49440-2-D-AR1			
-	to cables up to H07RN-F 3G 2.50 mm ² , temperature range -40 °C to 70 °C			1 Anna 1
-	astic insert with earthing contact, screws to side and cover			duh.
	dustrial version with surface clamps and standardised snap latch		10 11-11-1	
919.177	· Black		10 items	e 11
3-way co	uplings, 16A/250V~, IP44			_
Art. no.	Version		Unit	
Solid rubb	per 3-way coupling	-		
	49440-2-D-AR1			
<ul> <li>For fitting</li> </ul>	to cables up to H07RN-F 3G 2.50 mm², solid rubber insert with earthing cor	ntact		
· Robust in	dustrial version with hinged lid and hanger, standardised snap latch and prot	ective rub	ober sleeve	
<ul> <li>Screws ar</li> </ul>	nd terminal block at side, temperature range -40 °C to 70 °C			•
<ul> <li>For perma</li> </ul>	anent use out of doors and on construction sites			
913.170	· Black		10 items	SP .
PA housin	ig, 3-way coupling			
	49440-2-D-AR1			
· For fitting	to cables up to H07RN-F 3G 2.5 mm ² , PA insert with earthing contact			
· With attac	chment eye and kink protection, connections with screw terminals			40
· Temperat	ure range -40 °C to 70 °C			
919.1751	·Black		10 items	

# Cord intermediate switch, 16A/250V~, IP44

Art. no. Version		Unit
Solid rubber cord intermediate switch		
IP44		
· 2-pole interrupt		
<ul> <li>For round cable up to H07RN-F 3G 2.50 mm²</li> </ul>		
923.174 · Black		10 items



**PLUGS / COUPLINGS** 

Version

Cables up to 3G 1.00 mm² · Thermoplastic version

Black

· White

Cables up to 3G 1.50 mm²

· Includes miniature 13A fuse

Black

White

Earthing contact plug, UK, 13A/250V~

Earthing contact plug, USA, 15A/125V~

 $\cdot$  With strain relief 910.175

· Plastic version

· With strain relief 910.176

910.276

3-pole

Art. no.

910.275

+

## International earthing contact plugs

Earthing contact plug, Switzerland CH, 10A/250V~

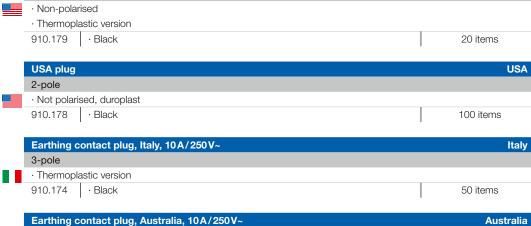












Unit

1 item

1 item

1 item

1 item

35 items

35 items

СН

UK

USA

	Lating 0		ruouana
	3-pole		
×	$\cdot$ With insula	ated pins and sleeve	
	910.182	·Black	40 items
	910.282	·White	40 items

# International earthing contact couplings



	Art. no.	Version	Unit	
	Earthing c	ontact coupling, Switzerland CH, 10A/250V~		СН
+	912.174	·Black	50 items	
	912.274	·White	50 items	



Earthing c	ontact coupling, UK, 13A/250V~	
With functi	on display	
<ul> <li>Thermopla</li> </ul>	astic version	
910.177	· Black	10 items
910.277	·White	10 items
Earthing c	ontact coupling with earthing pin, Belgium/France 15A/125V~	Earthing contact/UTE
With prote	ctive rubber sleeve	
<ul> <li>Thermopla</li> </ul>	astic version	



Black

White

912.173

912.273

# Solid rubber international plugs and couplings

- · Up to max. H07RN-F 3G 2.5 mm²
- $\cdot$  Belgian/French system IP44, thermoplastic and solid rubber version, with snap latch

Art. no.	Version	Unit
	per plug, 16A/250V~	1
IP44	per plug, 16A/250V~	earthing contact/UTE
913.169	· With dual earthing contact	20 items
	Screws to side, screw and surface terminals	
	· Black	
	·	
	per coupling, 16A/250V~	earthing contact/UTE
IP44	With anon latch and protection against contact	10 items
919.169	With snap latch and protection against contact     With thermoplastic cover	TO ILEITIS
	· Black	
		1
Non-heat	ing appliance plugs and sockets ( • • • • • • • • • • • • • • • • • •	
Art. no.	Version	Unit
	ng appliance plug with earthing contact	
	(250V~, 70°C	
	s up to 3G 1.00 mm ² , thermoplastic version with earthing contact C14 for	r cable mounting
915.171	minals, protective rubber sleeve and strain relief  · Black	50 items
915.271	·White	50 items
915.971	· Grey (RAL7035)	50 items
<b>Right</b> ang	le non-heating appliance plug with earthing contact	
C14, 10A/	′250V~, 70°C	
	s up to 3G 1.00 mm ² , thermoplastic version with earthing contact C14 for	r cable mounting
	minals, protective rubber sleeve and strain relief, cable exit to right	
915.172	·Black	50 items
Non-heati	ng appliance socket with earthing contact	
	/250V~, 70°C	
	s up to 3G 1.00 mm ² , thermoplastic version with earthing contact C13 for	r cable mounting
	minals, protective rubber sleeve and strain relief	
	·Black	25 items
915.270	·White	25 items
915.970	· Grey (RAL7035)	25 items
	ng appliance right angle socket with earthing contact	
	′250V~, 70°C	
	s up to 3G 1.00 mm ² , thermoplastic version with earthing contact C13 for	r cable mounting
	minals, protective rubber sleeve and strain relief, cable exit to right	05.1
915.173	· Black	25 items
915.973	· Grey (RAL7035)	25 items
	ng appliance built-in plug	
	A/250V~, 70°C	
	astic version with screw terminal	FO.''
917.170	· Black	50 items

Non-heating appliance plugs and sockets



Art. no	Version	Unit
	ating appliance in-built socket	
	10A/250V~, 70°C	
	oplastic version with screw terminal	EQ items
917.17	· Black	50 items
Non-h	ating appliance plugs and sockets	
Art. no	Version	Unit
Non-h	ating appliance plug	
C20, 1	A/250V~, 70°C	
· Therr	oplastic version with earthing contact	
• With	rotective rubber sleeve, for cable mounting	
915.17	5 · Black	25 items
Non-h	ating appliance in-built plug	
C20, 1	A/250V~, 70°C	
<ul> <li>Therr</li> </ul>	oplastic version	
917.17	Back	25 items
	ating appliance socket with earthing contact	
	A/250V~, 70°C	
	bles up to 3G 1.50 mm ²	
	oplastic version with earthing contact C19	
	rotective rubber sleeve, for cable mounting	
915.17	l Black	25 items
Nonk	ating appliance in built cocket with corthing contact	
	ating appliance in-built socket with earthing contact 16A/250V~, 70°C	
	oplastic version with earthing contact C19	
917.17		25 items
917.11	2   · Black	
High-t	mperature appliance plugs and sockets	<u>ب</u>
Art. no	Version	Unit
High-	mperature appliance in-built plug	
C16A	E, 10A/250V~, 155 °C	
· Therr	oplastic version with screw terminal	
918.17	) · Black	50 items
	·	
High-	mperature device socket with earthing contact	
C15A	10A/250V~, 155 °C	
	bles up to 3G 1.00 mm ²	
<ul> <li>Therr</li> </ul>	oplastic version with earthing contact, C15A for cable mounting	
· Screv	terminal, protective rubber sleeve and strain relief	
916.17		25 items
916.97	) · Grey (RAL7035)	25 items

Art. no.	Version	Unit
High-tem	perature appliance socket	
C21, 16A/	/250V~, 155°C	
<ul> <li>With prote</li> </ul>	ective rubber sleeve, for cable mounting	
918.171	· Black	25 items
High-tem	perature device socket with earthing contact	
10A/250V		
· For cable	s up to 3G 1.00 mm ²	
<ul> <li>Steatite version</li> </ul>	resion	
<ul> <li>With prote</li> </ul>	ective rubber sleeve and strain relief	
<ul> <li>Approved</li> </ul>	for export and replacement purposes only	
919.170	· Black	20 items
919.270	·White	20 items

# Junction boxes

Art. no. Version		Unit	
Appliance junction box 16A/380V~			-
<ul> <li>For 55 mm wall boxes/height 14 mm</li> <li>Thermoplastic version for flush mounting</li> <li>Easy fitting thanks to removable terminal block</li> <li>Lid with snap closure</li> <li>With 5x 2.50 mm² screw terminals and strain relief</li> </ul>			
190.271 · White		20 items	
Cooker junction box 16A/380V~			
For 55 mm wall boxes/height 23 mm     190.270 · White		20 items	

# Perilex plug with safety device, $16A/250V \sim$

Art. no. Version	Unit	alte
Perilex plug		Julia
IP54		
Side entry, 3-pole + E + O to VDE 0100/5.73		1.
Water protected to IP54		
349.203 · White	10 items	

ACCESSORIES

### Accessories

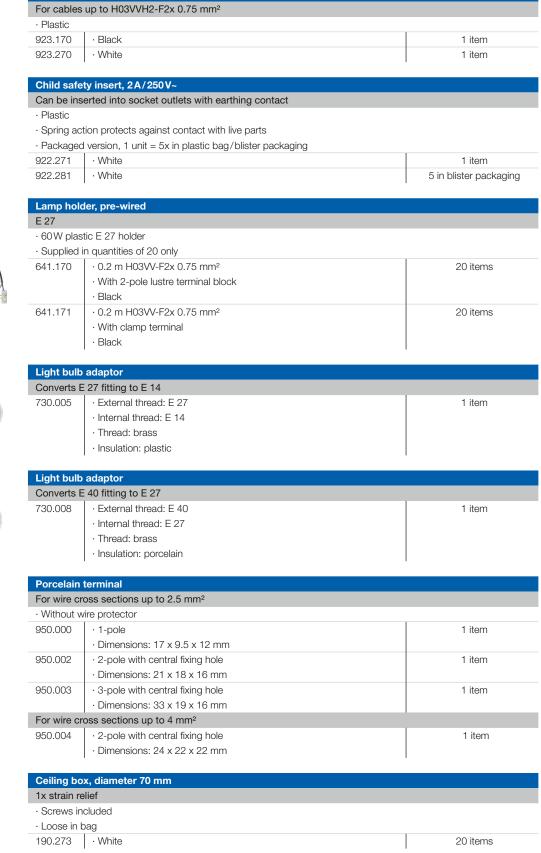
Version

Intermediate switch, 2A/250V~

Art. no.







Unit

ð

# Illumination lighting accessories

Art. no.	Version	Unit	
Sealing rin	g for illumination lamp holders		
	- · · · · · · · · · · · · · · · · · · ·		
	ofits to lamp holders in strings of lights for outdoor use		
	ed drip water protection when bulb is directed downwards	500 1	
740.001	· E 27	500 items	
	· Black		
740.012	· E 14	150 items	
	· Black		
Connectin	g box		
For flat cab	oles H05RN H2x 1.5 mm ²		( ) ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
740.015	· Black	30 items	
Solid rubb	er right angle plug		,
IP44			
	· For flat cable	10 items	
	· With snap latch		
	· With surface clamps		
	Assembled with two screws from front		
	Black		
	·Diack		
	plug for illumination lighting cable 16A/250 V~		
,	, for H05RN H2-F2x 1.5 mm ² cables		and the second
740.002	Solid rubber version	10 items	
	Without earthing contact		
	· With snap latch		-
	·Black		
Flat coupli	ing for illumination cable		-
DIN 0282			
740.003	· With hinged cover and hanging loop	10 items	
	· Without earthing contact		
	· For contour plugs only		
	· Black		
End picco	for illumination cable		-
DIN 0282			A COMPANY
740.004	· With hook for hanging	10 items	
140.004	Vith hook for hanging     Provides a secure end to illumination lighting cables		
			Con
	·Black		

# Light chains



Art. no.	Version	Unit
Light chai	in with plug and end piece	
With plug	and end piece	
· External of	dimensions approx. 5.20 x 13.20 m	
· Includes r	rubber plug and end piece with hook	
740.005	With 10 E 27 lamp holders	1 item
	Illuminants not included	
	· Green	
740.006	With 20 E 27 lamp holders	1 item
	Illuminants not included	
	· Green	

# Lamp holders

Art. no.	Version	Unit
Illuminatio	on lamp holder	
E 27		
· For outdo	bor use	
$\cdot$ Heat and	weather resistant thermoplastic	
· Splash-p	roof when used with sealing ring (740.001/740.012) – please order separat	ely
740.000	· Max. 40W	100 items
	<ul> <li>Protection class   /IP44</li> <li>Up to 165 °C without sealing ring</li> </ul>	
	· Up to 165 °C without sealing ring	
Illumination	on lamp holder with fixing base	
	to firm surfaces	
<ul> <li>Fixing scr</li> </ul>	ew spacing: 40 mm	
<ul> <li>Use outd</li> </ul>	oors only with rubber seal.	
Sealing ri	ng (740.001/740.012) – please order separately	
740.011	· E 27	50 items
	· Black	
		50 items
740.010	• E 14	50 items





# MAXI series 1000 silicon housing

See also page 253



 $\cdot$  For halogen cold-light mirror lamps, diameter 51 mm, 12 V ~, 35 W maximum

· Do not use Cool Beam illuminants

 $\cdot$  Triple insulated, with cable, without illuminant

Art. no. Version	Unit
MAXI series 1000 silicon housing	
With ceramic lamp holder	
924.224 · Transparent	1 item
924.225 · White	1 item
With ceramic lamp holder, unit is one bag of 50, loose	
924.332 · White	500 items
Without ceramic lamp holder, unit is one bag of 50, loose	
924.334 · White	500 items

Series 100	Series 1002 decorative rings	
For MAXI s	eries 1000 silicon housing	
924.231	· Chrome	20 items
924.250	Matt brushed stainless steel	20 items

## MAXI silicon housing for low-voltage recessed halogen spotlights

The MAXI silicon housing consists of a high-tech, high temperature-resistant elastomer with exceptional properties that will suit a wide range of applications:

- · Totally rust-free
- $\cdot$  Resistant to UV, ozone and ageing
- · Heat and cold resistant
- $\cdot$  Excellent resistance to weather and maritime environments
- $\cdot$  Patented
- $\cdot$  Quick and easy to assemble and dismantle
- No fitting of individual components
- · Bulb changes without tools
- · No troublesome metal rings
- $\cdot$  Can also be used for shops and exhibition stands (to match decor!)
- Quick-fitting system
- · Fitting without springs

## Can be fitted in:

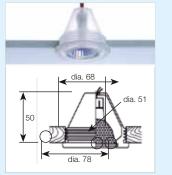
- · Solid material of various thicknesses
- $\cdot$  Fragile materials such as rigips, fibreboards, fixing plates, etc.

Pulse starters

See also page 253

Art. no.	Version		Unit
8600 serie	s pulse starters		
Instant igni	tion (rapid starter)		
	scent lamps; cuts maintenance and illuminant replacement costs, environm ${ m .30^\circ C}$ to ${ m +75^\circ C}$ , ENEC approved	entally friend	ly, 10-year
924.167	· EFS 120/110-250V~, 15-22W	-	10 items
924.168	· EFS 600/200-260 V~, 18-125 W	-	10 items





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Art. no.	Version		Unit
Teddy ser	ies 6310		
Socket ou	tlet protection		
· Socket or	utlet protection for insertion in earthing contact outlets		
$\cdot$ Cover wit	h key		
· Only to b	e removed from outlet with the key supplied		
· 5 items a	nd 3 keys in transparent bag (price per bag)		
924.201	· White		10 bags
924.101	· Black		10 bags
924.004	· Brown (supplied in units stated)		10 bags
· Loose (pr	ice each)	•	
924.005	·White		50 items
	tomatic series 6320		
	tlet protection		
	utlet protection, sticks on to earthing contact outlets		
	n blister card (price per card)		
924.009	·White		20 cards
924.010	·Black		20 cards
924.011	· Brown		20 cards
· Loose (pr			
924.012	· White		250 items
2002 serie	es protective caps		
. For incort	ion in earthing contact socket outlets		
	In transparent bag (price per bag)		
924.172*	White		20 items
524.172	- winte	I	20 1161113
8500 serie	es automatic socket protection		
· Slider svs	stem without adhesive pad		
,	for French system earthing contact		
924.173	· White		250 items
924.170			200 1161115
Teddy duo	o series 6330		
Night light			
<ul> <li>Night light</li> </ul>	It plus socket outlet protection		
<ul> <li>Night ligh</li> <li>With key</li> </ul>	t plus socket outlet protection		
· With key	t plus socket outlet protection hister card (price per card)		
· With key			20 items

# Cord intermediate switches

- $\cdot$  With screwed contacts
- $\cdot$  For double insulated flat cable 2x 0.75 mm^2

	Version	Unit
	52 cord intermediate switch, 2A/250V~	LxWxH 66 x 30 x 21 mm
2-pole		
	ninated, for Class II equipment	
Marking (		
924.028	Housing black, rocker black	20 items
924.029	Housing white, rocker white	20 items
2-pole		
· Illuminate	ed, for Class II equipment	
· Marking (	0 — 1	
924.031	· Housing white, rocker white	20 items
	44 cord intermediate switch, 2(1)A/250V~	LxWxH 66 x 30 x 21 mm
Off switch	and strain relief screwed, 2 connector terminals	
0	ble insulated flat cable $2 \times 0.75 \text{ mm}^2$ and $3 \times 0.75 \text{ mm}^2$	
Strain reli		
924.259	Housing transparent, button transparent	20 items
924.023	Housing white, button black	20 items
924.024	Housing black, button black	20 items
924.025	Housing white, button white	20 items
924.026	Housing brown, button beige	20 items
924.027	Housing gold, button gold	20 items
924.260	Housing titanium, button black	20 items
Series 80	07 cord intermediate switch, 2A/250V~	LWH 61 x 23 x 15 mm
Off switch	, 1-pole	
<ul> <li>Strain reli</li> </ul>	ief and housing screwed	
· Neutral c	onductor terminal	
924.036	Housing black, rocker black	50 items
924.037	Housing white, rocker white	50 items
	Housing brown, rocker brown	50 items
924.038	<ul> <li>Housing gold, rocker gold</li> </ul>	50 items
924.038 924.039	riodoling gold, rookor gold	
924.039	02 cord intermediate switch, 2A/250V~	LWH 58 x 28 x 29 mm (without button)



Series 505	5 cord intermediate switch, 3(2) A / 250 V ~	LWH 67 x 22 x 17 mm (without rocker)
Off switch,	1-pole	
<ul> <li>Strain relie</li> </ul>	ef via insulating screw, snap-on housing	
<ul> <li>Neutral co</li> </ul>	onductor terminal	
924.043	<ul> <li>Housing black, rocker black</li> </ul>	50 items
924.044	<ul> <li>Housing white, rocker white</li> </ul>	50 items
924.045	<ul> <li>Housing brown, rocker brown</li> </ul>	50 items
924.046	<ul> <li>Housing gold, rocker gold</li> </ul>	50 items



inter BAR











50 items

924.261* · Housing titanium, rocker black

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Series 80	06 cord intermediate switch, 6(4) A / 250 V ~	LWH 76 x 26 x 23 r
Off switch	n, 1-pole	
$\cdot$ Screwed	l strain relief, screwed housing, 2 terminals, marking 0 – I	
$\cdot$ For doub	ble insulated flat cable 2x 0.75 mm ² and 3x 0.75 mm ²	
<ul> <li>Suitable</li> </ul>	for secondary-side switching of halogen lamps	
924.047	· Housing black, rocker black	50 items
924.048	· Housing white, rocker white	50 items
924.049	· Housing brown, rocker brown	50 items
924.050	· Housing gold, rocker brown	50 items
Series 80	10 cord intermediate switch, 10(4) A / 250 V ~	LWH 80 x 30 x 25 r
Off switch	n, 2-pole	
· Screwed	strain relief, screwed housing, terminal for earthing conductor	
<ul> <li>Marking</li> </ul>	0 – I	
ivia Kii 19		
•	· Housing black, rocker red	50 items
924.051	Housing black, rocker red     Housing white, rocker white	50 items 50 items
924.051 924.052	-	
924.051 924.052 924.053	· Housing white, rocker white	50 items
924.051 924.052 924.053 Series 80	Housing white, rocker white     Housing brown, rocker beige 10 cord intermediate switch, 10(4) A/250 V ~	50 items 50 items
924.051 924.052 924.053 Series 80 Off switch	Housing white, rocker white     Housing brown, rocker beige 10 cord intermediate switch, 10(4) A/250 V ~	50 items 50 items
924.051 924.052 924.053 Series 80 Off switch	Housing white, rocker white     Housing brown, rocker beige      Ocord intermediate switch, 10(4) A/250 V ~      A, 2-pole  Istrain relief, screwed housing, terminal for earthing conductor	50 items 50 items
924.051 924.052 924.053 Series 80 Off switch • Screwed	Housing white, rocker white     Housing brown, rocker beige      O cord intermediate switch, 10(4) A/250 V ~      A, 2-pole  I strain relief, screwed housing, terminal for earthing conductor      0 – 1	50 items 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate	Housing white, rocker white     Housing brown, rocker beige      O cord intermediate switch, 10(4) A/250 V ~      A, 2-pole  I strain relief, screwed housing, terminal for earthing conductor      0 – 1	50 items 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For doub	Housing white, rocker white     Housing brown, rocker beige <b>10 cord intermediate switch, 10(4) A/250 V ~ n, 2-pole</b> Istrain relief, screwed housing, terminal for earthing conductor     0 – 1 ed	50 items 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For doub 924.327*	Housing white, rocker white     Housing brown, rocker beige <b>10 cord intermediate switch, 10(4) A/250 V ~ n, 2-pole</b> Istrain relief, screwed housing, terminal for earthing conductor     0 – 1 ed     ble insulated flat cable 2x 0.75 mm ² and 3x 0.75 mm ²	50 items 50 items LWH 80 x 30 x 25 r
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For doub 924.327*	<ul> <li>Housing white, rocker white</li> <li>Housing brown, rocker beige</li> </ul> <b>10 cord intermediate switch, 10(4) A/250 V ~</b> <ul> <li><b>h, 2-pole</b></li> <li>Istrain relief, screwed housing, terminal for earthing conductor</li> <li>0 – 1</li> <li>ed</li> <li>ble insulated flat cable 2x 0.75 mm² and 3x 0.75 mm²</li> <li>Housing black, rocker red</li> </ul>	50 items 50 items <b>LWH 80 x 30 x 25 r</b> 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For doub 924.327* Series 80 Multi-circ	<ul> <li>Housing white, rocker white</li> <li>Housing brown, rocker beige</li> </ul> <b>10 cord intermediate switch, 10(4) A/250 V ~</b> <ul> <li><b>h, 2-pole</b></li> <li>Istrain relief, screwed housing, terminal for earthing conductor</li> <li>0 – 1</li> <li>ed</li> <li>ble insulated flat cable 2x 0.75 mm² and 3x 0.75 mm²</li> <li>Housing black, rocker red</li> </ul>	50 items 50 items <b>LWH 80 x 30 x 25 r</b> 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For douk 924.327* Series 80 Multi-circ · Housing	<ul> <li>Housing white, rocker white</li> <li>Housing brown, rocker beige</li> </ul> <b>10 cord intermediate switch, 10(4) A/250 V ~</b> <ul> <li><b>n, 2-pole</b></li> </ul> I strain relief, screwed housing, terminal for earthing conductor <ul> <li>0 – 1</li> <li>ed</li> <li>ble insulated flat cable 2x 0.75 mm² and 3x 0.75 mm²</li> <li>Housing black, rocker red</li> </ul> <b>11 cord intermediate switch, 2A/250 V ~</b> <ul> <li>uit switch</li> <li>with dual cable exits</li> </ul>	50 items 50 items <b>LWH 80 x 30 x 25 r</b> 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For douk 924.327* Series 80 Multi-circ · Housing · 2 termina	<ul> <li>Housing white, rocker white</li> <li>Housing brown, rocker beige</li> </ul> <b>10 cord intermediate switch, 10(4) A/250 V ~</b> <ul> <li><b>n, 2-pole</b></li> </ul> I strain relief, screwed housing, terminal for earthing conductor <ul> <li>0 – 1</li> <li>ed</li> <li>ble insulated flat cable 2x 0.75 mm² and 3x 0.75 mm²</li> <li>Housing black, rocker red</li> </ul> <b>11 cord intermediate switch, 2A/250 V ~</b> <ul> <li>uit switch</li> <li>with dual cable exits</li> </ul>	50 items 50 items <b>LWH 80 x 30 x 25 r</b> 50 items
924.051 924.052 924.053 Series 80 Off switch · Screwed · Marking · Illuminate · For douk 924.327* Series 80 Multi-circ · Housing · 2 termina	Housing white, rocker white     Housing brown, rocker beige      Ord intermediate switch, 10(4) A/250 V ~      A, 2-pole      strain relief, screwed housing, terminal for earthing conductor      O - 1      d      ble insulated flat cable 2x 0.75 mm ² and 3x 0.75 mm ² Housing black, rocker red      Housing black, rocker red      Housing black switch, 2A/250 V ~      with dual cable exits als	50 items 50 items <b>LWH 80 x 30 x 25 r</b> 50 items



Art. no.	Version	Unit
Series 512	0 refrigerator door switch with quick-action contact, 2(1) A/250 V~	LxWxH 39 x 34 x 15 mm
Break-cont	act switch, 1-pole	
<ul> <li>Trade vers</li> </ul>	sion with additional housing	
<ul> <li>Hole space</li> </ul>	ing 43 mm	
924.203	Housing white, button white	40 items
924.103	· Housing black, button black	40 items
<ul> <li>Industrial</li> </ul>	version without additional housing	
<ul> <li>Hole space</li> </ul>	ing 25.5 mm	
· Caution: E	nsure installation is VDE-compliant, e.g. bolt only to insulating surfaces (pla	stic)
924.071*	Housing white, button white	100 items
924.072	Housing black, button black	100 items

# Foot-operated intermediate switches

- $\cdot$  With screwed contacts
- $\cdot$  For double insulated flat cable 2x 0.75 mm² and 3x 0.75 mm²
- $\cdot$  2 terminals
- $\cdot$  Snap-on housing
- $\cdot$  Strain relief screwed

Art. no.	Version	Unit
Series 506	2 intermediate foot switch, 2(1) A / 250 V ~	dia. 66 mm
Off switch,	1-pole	
924.056	Housing gold, button gold	10 items
924.057	· Housing white, button black	10 items
924.058	· Housing black, button black	10 items
924.059	Housing white, button white	10 items
924.060	<ul> <li>Housing brown, button beige</li> </ul>	10 items

Series 800	9 intermediate foot switch, 2(1) A / 250 V ~	dia. 66 mm
Off switch,	1-pole	
924.062	· Housing black, button black	10 items
924.063	Housing white, button white	10 items
924.064	· Housing brown, button brown	10 items
924.065	<ul> <li>Housing gold, button gold</li> </ul>	10 items

Series 800	9 intermediate foot switch, 6(2) A / 250 V ~	dia. 66 mm
Off switch,	1-pole	
<ul> <li>Suitable fe</li> </ul>	or secondary-side switching of halogen lamps	
924.068	· Housing black, button black	10 items
924.069	· Housing white, button white	20 items

Series 800	9 intermediate foot switch, 2(1) A / 250 V ~	dia. 66 mm
Multi-circui	t switch, 1-pole	
<ul> <li>Switches</li> </ul>	petween 0 − 1 − 1+2 − 2 − 0	
924.066	Housing white, button black	10 items
924.067	Housing black, button black	10 items
924.264	· Housing gold, button gold	10 items

Series 800	8 intermediate foot switch, 2A/250V~	dia. 66 mm
Off switch,	1-pole	
924.061	Housing brass, button black	10 items













# Cord end switch

With screwed contacts

.

 $\cdot$  Housing and strain relief screwed



Art. no.	Version	Unit
Cord end	switch series 8016 10(2) A / 250 V ~	30 x 51 x 20 mm
On/off swit	ch, 1-pole, marking 0 – 1	
924.073	Housing white, rocker white	50 items
924.074	· Housing black, rocker black	50 items

# Cord end dimmers, 8013 series

- $\cdot$  Hand or foot activated, for low-voltage halogen lamps (for conventional transformers)
- $\cdot$  For high-voltage halogen lamps or incandescent bulbs 20-500 W





Art. no.	Version	Unit
Cord end	dimmer series 8013 250 V ~	107 x 60 x 30 mm
With 2 m c	able and appliance plug	
924.078	· Housing black, slider black	1 item
924.079	· Housing white, slider white	1 item
924.080	· Housing gold, slider gold	1 item
924.266*	· Housing titanium, slider black	10 items

Cord inter	mediate dimmer series 8013 250 V ~	107 x 60 x 30 mm
924.075	· Housing black, slider black	1 item
924.076	· Housing white, slider white	1 item
924.077	· Housing gold, slider gold	1 item
924.265	· Housing titanium, slider black	1 item
924.336	· Housing transparent, slider transparent	1 item

# Cord intermediate dimmer series 8015

 $\cdot$  With illumination, for incandescent bulbs



Art. no.	Version	Unit
Cord inter	mediate dimmer series 8015 230 V ~	92 x 28 x 27 mm
40 to 160 \	N	
924.267	Housing transparent	10 items
924.081	· Housing black	10 items
924.082	· Housing white	10 items

# Cord intermediate dimmers series 8113 and 8114

• For low-voltage halogen lamps (with electronic transformers)

• For high-voltage halogen lamps or incandescent bulbs

Art. no. Version		Unit
Cord intermediate dimmer / reverse phase control dimmer series 8113, 23	0V~	130 x 60 x 35 mm
50 Hz, 20 to 300 VA		
$\cdot$ Mode of connection (intermediate or cord end) freely selectable		
Hand or foot activation		
$\cdot$ Buzz-free, without fuse, separate on and off switches, pilot light when dark		
924.338 · Housing black		1 item
Cord intermediate dimmer series 8114 250 V ~		96 x 41 x 29 mm
50 Hz 20 to 200 W/VA		

50 Hz, 20 t	o 200 W/VA	
<ul> <li>Revolving</li> </ul>	off function, with earth wire connection	
<ul> <li>Fused swi</li> </ul>	tch accessible from outside, allows problem-free fuse replacement	
924.340	· Housing black, rotating wheel light grey	1 item

# Series 3652 rocker switches

 $\cdot$  With and without illumination, tab terminals 6.3 x 0.8 mm

# Snap-in fixing to 11 x 30 mm cut-out

Art. no.	Version		Unit
Series 365	52 rocker switch, 16(8) A/250 V ~, T 185 °C		
On-off swit	tch, 1-pole, non-illuminated, no embossing on rocker		
924.090	Housing white, rocker white		50 items
924.091	Housing black, rocker black		50 items
		•	
On-off swit	tch, 1-pole, illuminated, no embossing on rocker		
924.111	· Housing white, rocker red		50 items
924.112	· Housing black, rocker red		50 items
924.113	· Housing black, rocker yellow		50 items
924.114	<ul> <li>Housing black, rocker green</li> </ul>		50 items
	•		
Changeove	er switch, 1-pole, non-illuminated, no embossing on rocker, no centre p	osition	
924.092*	· Housing black, rocker black		50 items





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## Series 3652 rocker switches

# $\cdot$ With and without illumination, tab terminals 6.3 x 0.8 mm

Snap-in fixing to 22 x 30 mm cut-out

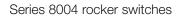


Art. no.	Version	Unit
Series 365	2 rocker switch, 16(8)A/250V~, T 125°C	
On-off swit	ch, 2-pole, non-illuminated, with rocker coinage 0 I	
924.094	Housing white, rocker white	50 items
924.095	· Housing black, rocker black	50 items
On-off swit	ch, 2-pole, illuminated, rocker embossed with 0 I	
924.096	Housing white, rocker red	50 items
924.097	· Housing black, rocker green	50 items
924.098	· Housing black, rocker yellow	50 items
924.099	· Housing black, rocker red	50 items
Changeove	er switch, 2-pole, non-illuminated, no embossing on rocker, no centre po	sition
924.109	· Housing black, rocker black	50 items
On-off swit	ch, 2 x 1-pole, illuminated, no embossing on rocker	
924.120	· Housing black, rocker red/red	25 items

# PVC caps and surrounds

 $\cdot$  Retrofit to series 3652 as splashwater and dust protection

Art. no.	Version		Unit
Series 22	SPVC caps and surrounds		
for 1-pole	rocker switch		
924.115*	· Surround white, cap clear		50 items
924.116	· Surround black, cap clear		50 items
for 2-pole	rocker switch		
924.117	· Surround white, cap clear		50 items
924.118	· Surround black, cap clear		50 items



- $\cdot$  Snap-in fixing to 19.4 x 13 mm cut-out
- $\cdot$  Suitable for secondary-side switching of halogen lamps
- · Non-illuminated, marking 0 I



Art. no.	Version		Unit
Series 800	4 rocker switch, 6(2) A ∕ 250 V ~, T 85 °C		
Off switch,	1-pole		
924.127	Tab terminals 4.8 mm		50 items
	Housing black, rocker black		
924.128*	Screw terminals		50 items
	· Housing black, rocker red		



*	No	storage	type
---	----	---------	------

# Series 8005 rocker switches

 $\cdot$  Snap-in fixing to 22 x 30 mm cut-out

- Combined tab terminals 6.3 mm
- · Screw terminals M 3
- Illuminated, marking 0 I

Art. no. Version	Unit
Series 8005 rocker switch, 16(4) A/250 V ~, T 85 °C	
Off switch, 2-pole	
924.129* · Housing black, rocker red	100 items

# Series 8014 rocker switches

Art. no.	Version		Unit
Series 801	14 rocker switch, 6(2) A/250 V ~, T 85 °C		
Off switch,	, 1-pole		
$\cdot$ Mounting	hole diameter 22 mm, fixing thread M 22, Class II		
· Screwed	contacts, with plastic hexagonal nut		
$\cdot$ Suitable f	or secondary-side switching of halogen lamps		
924.131	· Housing white, rocker white		50 items
924.132	· Housing black, rocker black		50 items
Off switch,	•		
	diameter 21.7 mm, Class II, screwed contacts, with protection against o	contact	
	or secondary-side switching of halogen lamps		EQ itemse
924.133	Housing black, rocker black		50 items
924.134	Housing white, rocker white	ļ	50 items
	14 rocker switch, 16(4)A/250V~, T 85 °C		
Series 801			
Series 801 Off switch,	, 2-pole		
Off switch,	, <b>2-pole</b> ixing to 22 x 30 mm cut-out, combined tab terminals 6.3 mm		

924.136 · Housing red, rocker red

50 items



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# Multi-position pushbutton switches

· Central fixing by M 12 x 1 mm, screwed contacts, bell-shaped nut screws on from above  $\cdot$  Switches between 0 – 1 – 1+2 – 2 – 0



Art. no.	Version	Unit
Series 307	6 multi-circuit pushbutton switch, 2(1) A/250 V ~, T 100 °C	
Multi-circui	it switch, 1-pole	
924.140	· Button white, thread length 8 mm	50 items
924.141*	· Button white, thread length 12 mm	100 items

# Push-button switches

 $\cdot$  Central fixing by M 10 x 1 mm, screwed contacts, bell-shaped nut screws on from above

Art. no.	Version	Unit
Series 800	01 pushbutton switch, 2(0.7) A/250 V ~, T 100 °C	
Off switch,	, 1-pole	
924.142	· Button white, thread length 8 mm	100 items
924.143	· Button black, thread length 8 mm	100 items
924.145*	Button white, universal for 8-15 mm thread	100 items
	· With 2 thread-reducing rings	100 items
Series 800 Off switch,	01 pushbutton switch, 6(2) A/250 V ~ AC, T 85 °C , 1-pole	
Off switch, · Suitable for	, <b>1-pole</b> or secondary-side switching of halogen lamps	100 items
Off switch,	, 1-pole	100 items
Off switch, · Suitable for 924.144	, <b>1-pole</b> or secondary-side switching of halogen lamps	100 items
Off switch, · Suitable for 924.144	<ul> <li><b>1-pole</b></li> <li>or secondary-side switching of halogen lamps <ul> <li>Button white, thread length 8 mm</li> </ul> </li> <li>30 pushbutton switch, 2(1) A/250 V ~, T 85 °C</li> </ul>	100 items
Off switch, · Suitable for 924.144 Series 303 Off switch,	<ul> <li><b>1-pole</b></li> <li>or secondary-side switching of halogen lamps <ul> <li>Button white, thread length 8 mm</li> </ul> </li> <li>30 pushbutton switch, 2(1) A/250 V ~, T 85 °C</li> </ul>	100 items
Off switch, · Suitable for 924.144 Series 303 Off switch,	<ul> <li>, 1-pole</li> <li>or secondary-side switching of halogen lamps</li> <li>Button white, thread length 8 mm</li> <li>30 pushbutton switch, 2(1) A/250 V ~, T 85 °C</li> <li>, 1-pole</li> </ul>	100 items

# Pushbutton

* No storage type



· Without thread, screwed contacts

Art. no. Version		Unit	
Series 8001 pushbutton, 2A/250V ~ AC			
Make-contact switch, 2-pole			
924.146 · Button white		50 items	



0 1 1 6			_ inter 🍩 B
	xing by M 10 x 1 mm, screwed contacts, bell-shaped nut s read-reducing rings, universal for 8-15 mm threads	crews on from above	
Art. no.	Version	Unit	$\subseteq$
Series 80	01 button, 2(0.7) A/250 V ~, T 100 °C		
	tact switch, 1-pole		
924.149	· Button white, thread length 8-15 mm	100 items	
			10.
ull switc	ches		
Screwed	contacts		
Art. no.	Version	Unit	
Series 37	16 pull switch, 4(1)A/250V~, T 125 °C		
Off switch			
924.151	Housing black	50 items	B.
	• Two-hole fixing		ų
	Hole spacing 20 mm		
	Fixing holes diameter 3.4 mm		
	30 pull switch, 2(1) A / 250 V ~, T 125 °C		0
Off switch			11-01
924.152	Housing black	100 items	4 10
	Single-hole fixing		
004 150	Fixing holes diameter 3.2 mm	100 :tama	
924.153	Housing black     Hole spacing 22-25 mm	100 items	
	With screw mounting plates		
	With screw mounting plates		
Series 37	46 pull switch, 2(1) A / 250 V ~, T 125 °C		
Off switch			
· Two-hole	fixing		a o ha
. Hola sna	cing 22 mm		Che la
1 1016 3pa	les diameter 3.4 mm		
	<ul> <li>Housing brown-black, pull cord entry on end face</li> </ul>	50 items	
· Fixing ho 924.154		50.1	
• Fixing ho 924.154 924.155	Housing brown-black, pull cord entry on side face	50 items	
· Fixing ho 924.154 924.155 · Hole spa	Housing brown-black, pull cord entry on side face cing 23 mm	50 items	
· Fixing ho 924.154 924.155 · Hole spa	Housing brown-black, pull cord entry on side face cing 23 mm les diameter 3.4 mm	50 items	



Art. no. Version		Unit
Series 8017 pull switch, 2(1) A/250 V ~, T 100 °C		
Off switch, 2-pole		
924.159* · Housing black		50 items

# Multi-circuit pull switch

Pull switches

· Screwed contacts

 $\cdot$  Two-hole fixing, hole spacing 22 mm, hole diameter 3.15 mm

· Two-hole fixing, hole spacing 20 mm, hole diameter 3.4 mm

 $\cdot$  Screwed contacts, switches between 0 – 1 – 1+2 – 2 – 0



Art. no. Version		Unit
Series 3776 multi-circuit pull switch, 2(1)A/250V~, T 100°C		
Multi-circuit switch, 1-pole		
924.157		50 items

# Pull cord

- $\cdot$  25 cm, with plastic cone
- · Suitable for switch types 3716, 3730, 3746, 8017, 3717, 3776

A
P
9
0

Art. no.	Version	Unit
Pull cord		
924.158	·White	50 items
924.158 On request	·Black	

# Toggle switches

- $\cdot$  Suitable for Class II equipment, central fixing by M 12 x 0.75 mm, hexagonal and knurled nuts screwed on from above
- $\cdot$  Toggle lever and housing in thermoplastic, contacts silver, terminals silver plated
- $\cdot$  Suitable for secondary-side switching of halogen lamps



Series 840	00 toggle switch, 6(4) A / 250 V ~, T 85 °C	
Off switch,	, 1-pole	
924.160	Soldered connection	50 items
924.161	· Tab terminals 4.8 mm	50 items

Series 840	0 toggle switch, 6(4) A/250 V ~, T 85 °C	
Changeove	er switch, 1-pole	
924.162*	Soldered connection	50 items
924.163	Tab terminals 4.8 mm	50 items

* No storage type

Special products

Art. no.

924.167

924.168

Version

8600 series pulse starters Instant ignition (rapid starter)

warranty, -30 °C to +75 °C



Unit

10 items

10 items

1 item



Overload protection-power strip type 8110									
2-way									
924.164	· 230V~, 50Hz/16A								

· EFS 120/110-250V~, 15-22W

· EFS 600/200-260V~, 18-125W

$\cdot$ For connecting two devices with high power consumption
(e.g. washing machines and driers)
<ul> <li>1.5 m connector cable with plug</li> </ul>

 $\cdot$  1 socket outlet with automatic cut-out, power dependent

· For fluorescent lamps; cuts maintenance and illuminant replacement costs, environmentally friendly, 10-year

- · 1 socket outlet for continuous power
- · Dimensions: 75 x 45 x 270 mm
- · Weight 450 g

Note This overload-protected power strip solves the problem of running two power-hungry appliances such as a washing machine and a tumble drier from a single supply cable. It prevents fuses being blown and avoids the need for new cables to be installed. The two appliances can be run simultaneously because the power strip cuts out the tumble drier during the water-heating phase of the washing machine. Once the heating stage is completed, the drier is automatically switched on again. For electronic driers please consult your user manual.

## Pinfix type 8821

Art. no.	Version	Unit							
Pinfix seri	es 8821								
Special sol	Special solution for difficult flat connector power packs								
· For the wh	· For the whole of Europe (except Switzerland)								
<ul> <li>Pinfix is particular</li> </ul>	atented, 1 item on blister cards								
924.329	· Black	20 cards							
924.330	·White	20 cards							



#### 4-key keypad

Programmable illuminated buttons for controlling equipment and media.

#### 10-inch panel (10")

A mounting frame with a standardised width of 10" = 254 mm, with holes for bolting to 10" racks Used for events equipment, media and laboratory systems and in computer centres. As a rule these panels have a height of 1 U (1 height unit/1 unit), specified as 1.75" = 44.5 mm.

#### 19-inch (19") panel

A mounting frame with a standardised width of 19" = 482.6 mm, with holes for bolting to 19" racks. Frequently used for events equipment, media and laboratory systems and in computer centres. As a rule these panels have a height of 1 U (1 height unit/ 1 unit), specified as 1.75" = 44.5 mm.

#### Bandwidth

The difference between two frequencies that form the limits of a specific, unbroken frequency range between them.

Blank Function in video output devices of switching to a black still frame.

#### BNC connectors - Bayonet Neill Concelman

are coaxial plugs with screw locking designed for high frequencies up to about 1 GHz, in some cases to 4 GHz, with a defined wave impedance of 50 or 75  $\Omega$  (and can be connected together). They are used chiefly in radio and video systems. The BNCdesign has however also been used for transmitting weak DC and low-frequency AC signals and pulses in laboratory applications because of the shielding of the outer conductor from electrical interference. The coaxial construction thus provides protection against external electric fields. For this reason, connections to measuring devices such as oscilloscopes, frequency counters and function generators generally use BNC-type cables.

In data connection technology the following main categories and classes for equipment performance are generally

accepted:				
Category	Class	MHz	GB	
CAT5e	D	100	1	
CAT6	E	250	1	
CAT6a	E	500	10	
CAT7	F	600	10	
CAT7a	F	1.000		

The difference between category and class is that the individual components such as cables, data input (socket), plugs etc are graded into categories. The overall performance of the sum of these components, i.e. of the complete data network, is referred to as the class. The class of the network as a whole is thus determined by the weakest components. Example: CAT6 cable and plug are connected to a CAT5e socket, the overall network attains only class D. Additionally, a distinction is made in data connection equipment between shielded and unshielded components. In most countries, unshielded versions are most common; however, in Germany almost 100% of the cabling used is shielded. The standard that currently defines this aspect of data connection technology is summarised in EN 50173.

#### Cinch (RCA)

For non-standardised connectors for electrical signals. primarily on coaxial cables. Use: audio white = left analogue channel (sometimes also black); audio red = red analogue channel; orange = digital audio; video vellow = composite video, analogue, unmodulated TV picture signal in baseband (VBS or CVBS); video green = Y (brightness); video blue = Pb (colour difference); video red = Pr (colour difference)

#### Coaxial ('coax') cable

Coaxial cable is a special type of cable with concentrically arranged conductors for transmitting high-frequency signals, such as in TV systems for analogue CVBS or for digital studio signals (DSC).

## Composite Video

See Cinch (RCA)

Control unit See Media control systems

#### Crossover

In computer networking, a cross or crossover cable is an eight-wire twisted-pair cable with an RJ45 plug at each end, but where some of the wires have been swapped over

in one of the plugs. This is required e.g. where two computers are connected together directly. It is also possible, instead of a crossover cable, to use an uncrossed cable in conjunction with a crossover adaptor to obtain the required crossing of wire pairs. The simplest use of a crossover cable is to link two computers with network cards without necessarily requiring a hub or switch. The two computers thus connected form a complete network on the smallest possible scale. Crossover cables can normally be dis-pensed with in gigabit Ethernet, since Auto-MDI-X is defined in the standard for this and is supported by most device In a crossover cable, the sent data wire is crossed with the received data wire at one end, so that data exchange is possible over a direct connection. If the send and receive wires had not been swapped at one end, no link between the machines would be obtained.

### CVBS

See Cinch (RCA)

# Display port

A port for conveying image and sound signals (e.g. monitor, DVD player, plasma TV etc).

DVB – Digital Video Broadcasting By 2010 all radio and TV channels in Germany are expected to be transmitted via digital video broadcasting (DVB"). The transmission paths available are terrestrial frequencies (DVB-T), cable (DVB-C) and satellite (DVB-S). A mobile radio standard (DVB-H) is still at the testing stage. In all cases a special receiver is required to receive the signal.

DVB-T allows up to 24 TV channels to be received via a conventional domestic TV antenna. The channels are broadcast without encryption and are free of charge. So far, commercial broadcasters have only engaged in DVB-T in urban areas

DVB-C offers more channels – theoretically up to 500. However, a paid-for cable connection is required to receive the signal. Commercial broadcasters using the digital cable network usually encrypt the signal, which then requires a smart card from the network operator to decode.

### DVI – Digital Video Interface

A digital interface for video signals. In this system the sound has a separate input. The high-definition (HD) formats, however, use the new HDMI input. There are three different types of digital video interface:

DVI-A transmits analogue signals only; DVI-I is capable of transmitting both analogue and digital signals, while

**DVI-D** transmits digital signals only. If the new TFT monitor has a DVI-D interface, the old graphics card with analogue VGA output cannot be connected to it.

The European Installation Bus (EIB) is a standard compliant with EN50090 that describes how sensors and actuators should be connected together in a domestic installation. It also defines the communications protocol. The EIB thus controls, for example, lighting and shutters or other shade-providing devices, heating, locking and alarm systems. EIB has subsequently been further developed and been known since 2002 as the KNX standard.

#### Ethernet

A protocol that regulates data transfer in local area networks (LANs). This standard was developed by the Californian Xerox corporation in 1976.

#### F connectors

(IEC 60169-24) are coaxial plugs with screw locking designed for high frequencies up to about 5 GHz with a defined wave impedance of 75  $\Omega$ . The most commonly used connector in satellite television systems worldwide.

#### FireWire

The FireWire interface is used for rapid data exchange between a computer and multimedia or other peripheral devices. Thanks to its high transfer rate. FireWire can also be used as an alternative to Ethernet (IP over FireWire).

#### Full HD TV

Full HD models offer TV and video images with 1920x1080 pixels - currently the highest pixel number in HDTV broadcasts or high-definition feeds. This picture quality represents five times the resolution of conventional TV pictures. Even when observed close up, the viewer cannot see any kind of pixel structure. Video projections profit in particular from full HD resolution. The term is mostly used to describe the ability of an HDTV-capable device to output the highest possible HD resolution.

#### Hardware detect

Automatic detection of incoming signals, e.g. if a laptop is connected to an output device while switched on, the output device automatically recognises this newly-connected device.

### HDMI – High Definition Multimedia Interface

Interface for picture and sound information in HDTV and HD television systems. It enables fully digital transmission of video and digital sound with up to eight channels. The HDCP digital copy-protection system is built in.

#### HDTV – High Definition Television

HDTV has significantly higher resolution, shows the picture more sharply and with more detail, and is broadcast with an aspect ratio of 16:9 rather than the traditional 4:3. Resolu-tion is up to 1920 x 1080 pixels. To receive HD pictures, a TV set is required that carries the "HD ready" seal.

### Hi-Fi – High Fidelity

Hi-Fi (high fidelity) is a quality standard for audio playback equipment.

### Hosiden

See S-Video

#### Impedance

Impedance, sometimes also known as AC resistance, states the ratio of electrical voltage across a consume (component, cable etc) to the current drawn. Impedance is important when matching high-frequency cables and also in the transmission of electromagnetic waves in free space. If for example the input impedance of a device does not match that of the incoming cable, reflections occur that reduce the energy transmitted and that can cause resonance effects and thus a non-linear frequency response.

## ISDN - Integrated Services Digital Network

International standard for a digital telephone network. Al-lows multiple channels to transmit simultaneously. A basic ISDN connection offers the user two independently available channels for telephone or internet. Bandwidth is 64 kb/s.

#### Jack (TRS connector or audio jack)

Internationally accepted electrical connector for AC or DC in the low-voltage (SELV – safety extra-low voltage) range. Jack plugs, sockets and couplings are used most typically for audio signals or for connecting a small electronic device to a power supply unit. Jack plugs are often used for connecting headphones to audio equipment. Versions available: **3.5 mm (miniature jack)** for portable devices (MP3 players, Discmans etc), sound cards and small headphones. 6.35 mm (jack) for stereo systems and electronic music equipment (mixing desks, effects units, synthesisers, keyboards, electric pianos, electric guitars and guitar amplifiers)

#### Keystone

Universal dimensions (19.3 x 14.7 mm) for cut-outs for mountings.

#### KNX

KNX technology resulted from the confluence of three European bus standards, the European Installation Bus (EIB), the European Home Systems Protocol (EHS) and Batibus (used in heating/ventilation/climate control) to create a unified technological platform for all areas of home and building systems in the form of an international industry standard. KNX allows central control of practically all components of home and building systems technology, from lighting through heating to alarm systems, and offers advantages of convenience, security and economy for functional buildings as well as in residential settings. The KNX specification was presented by the then newly founded KNX Association in spring 2002. Based on the EIB standard, with which the new technology platform remains fully compatible, KNX emerged from expansions using new configuration mechanisms and transfer media that had originally been developed for Batibus and EHS. By 2003 KNX was ratified by CENELEC, the Brussels-based European committee for electrical standards, as European Standard EN 50090. Shortly afterwards it was ratified by the CEN standards institute under EN 13221-1 as the European standard for the automation of buildings.

### LAN - Local Area Network

Computer network that links various computers and peripheral devices via cables or wireless over a restricted physical area

### Loudspeaker connections

Stereo (red + white) screw terminals for audio signals.

## LC

This connector is similar to the SC but smaller.

#### Media control

Control of video, power, lighting and audio systems in a building. Sound, light and video are controlled by appropriate commands. Media control allows all the devices to be used in a presentation to be linked and controlled in the desired time sequence.

#### Miniature jack

A 3.5 mm jack socket for audio signals (e.g. from laptop or PC to loudspeakers).

#### Mini USB

A compact plug or socket version of the USB standard. This version was developed for devices with restricted space such as mobile telephones and digital cameras

#### MTRJ

An optical connector that accepts two fibres: the junctions are embedded in a common plastic block in the shape of a RJ 45 connector. This design also prevents any confusion of the outward and return line and is easy to insert and to remove. This connector is suitable for single-mode and multi-mode fibres.

#### MUTE

Switching of audio devices to silence

#### Overvoltage protection with filter

Overvoltage protection – conforms to DIN VDE 0620-1:-2002-01, EN 61643-11:08-2007, type 3, discharge current 6.5 kA, response time < 25 nS. Suitable for 16A (miniature fuse on request) with varistors, temperature fuse, gas discharge arrester, visual LED function and failure indicator (acoustic signalling also available on request). Mains and frequency filters - conforming to VDE 0565-3:05-2006 for voltage peaks up to 30 MHz, damping diagram on data sheet

#### OWG - Optical waveguides

Cables made up of, or including, optical fibre conductors with connectors for transmitting optical signals in the visible, ultraviolet or infrared ranges. Fibre-optic cables form a reasonably pliable medium for transmitting optical signals or even higher-powered optical radiation.

#### PAL - Phase Alternating Line

The conventional television standard in Europe for analogue TV signals with a resolution of 720x576 pixels.

#### Potential-free contact

Used for communicating a status between electrical devices. Contact is normally established via a relay or optical coupler. This ensures that the electric circuits of the respective devices remain galvanically isolated from one another. This solution is the simplest and safest method for e.g. transmitting digital data electrically.

#### PowerCON

A type of 3-pole power connector with coding and interlocking, most frequently used for stage equipment. The interlock mechanism protects against the plug being accidentally pulled out of its socket.

## PS/2 interface (PS/2 connection, PS/2 port, originally

'auxiliary port'). Commonly used 6-pole serial interface for input devices (e.g. mouse and keyboard) on personal computers

#### Pushbutton

Illuminated blue, various types, e.g. in desk control panels for controlling equipment. Rocker buttons are used for up/ down control of external devices, e.g. screen, blinds etc.

#### Pushbutton: automatic switchoff

Power strips that feature an automatic switchoff device are used to automatically switch off the power to the connected equipment. Pressing the button subsequently restores power to the connected equipment.

#### Pushbutton: stainless steel

For connecting by the user to control equipment and media.

#### RCA

See Cinch (RCA)

#### RGB signal

In a RGB signal the colours red, green and blue are each transmitted and/or stored in their own channel. RGB signals are used for video transmission e.g. on computers with a VGA interface or in video systems with SCART connections.

#### RJ (registered jack) connectors

These are standardised connectors for telecommunications cables. The standards describe the physical form of plugs and sockets and their contact configurations, and are des ignated by the letters RJ and a number (e.g. RJ-45), with or without the hyphen. Examples: RJ126P6C/RJ458P8C

#### RJ12

## see RJ (registered jack) connectors

A device that forwards data packets though various networks. The router serves to calculate the connections between for example, two local networks (LANs) and automatically establishes the optimum path for the data packets.

#### RS-232

Serial interface standard with 25-pole or 9-pole connector for serial data transmission. Also known as V.24. Both oneto-one pinouts and crossover configurations are commonly used

#### sc

An optical connector used in new LAN installations. The right-angled design can be used for multi-mode and singlemode (monomode) glass fibres. Average insertion loss is about 0.2 dB, maximum approx. 0.4 dB. The advantage of SC over the ST connector is the push-pull design – i.e. the plug locks in automatically when inserted and is released when pulled out. This allows the use of duplex connectors (two connectors linked by a duplex clip) and duplex connections can be inserted or removed simultaneously.

#### Speakon

A connector designed for loudspeakers, offering a robust construction, a 20A contact rating and secure interlocking. Speakon connectors are available in two-pole, four-pole and eight-pole versions; the 2-pole and 4-pole types are mutually compatible. The eight-pole version has a larger physical size. The number of contacts available in a single connector makes it possible to connect multi-channel passive systems, satellite subwoofer systems or multi-channel monitor loudspeaker constellations via a single cable.

#### ST

This connector (also known as a BFOC connector) is common in LANs and is suitable for single-mode and multimode optical fibre cables. Average insertion loss is about 0.3 dB, maximum approx. 0.5 dB.

#### S-Video/Super Video system

S-video, also known as the Y/C process, designates a spe-cial analogue video signal process in which the 'luminance' (brightness) information is transmitted and processed separately from the 'chrominance' (colour information). An ample application of S-video is in VHS video recorders.

### S-VHS – Super Video Home System

An improved, downward compatible VHS standard for home video-band recording that offers better picture resolution and greater colour accuracy. Horizontal image resolu-tion is some 2/3 better than in VHS. S-VHS is a standard, not a connector. The S-VHS standard signal may however be transmitted via the S-video (Hosiden) connector.

#### Switch

A network component for linking multiple computers or network segments within a local area network (LAN). Switches analyse network traffic and make logical decisions.

#### TOSLINK

A standardised optical waveguide connection system for optical signals in the range up to about 20 Mb/s. Used to transit digital audio signals between audio devices.

#### TrueHD

Audio standard for high-resolution media such as Blu-ray and HD DVD. TrueHD allows 100 % loss-free compression of audio data. The codec allows a data rate of up to 18 Mbps

#### USB - Universal Serial Bus

USB is used to connect a variety of devices together by cable. USB is a bit-serial bus on which the individual bits of a data packet are transmitted one after another. Devices with USB can be connected to one another while operating, since the newly connected devices are automatically detected. USB is used to connect, for example, printers digital cameras, MP3 players and hard disks to a computer.

VBS See Cinch (RCA)

#### VGA/audio switch

Switches between multiple input sources (e.g. several laptops) as required and forwards the signal to output media devices (e.g. projector, monitor, loudspeaker).

### VGA – Video Graphics Array

refers to a computer graphics standard (EISA, 1987) that defines specific combinations of image resolution and number of colours (colour bit depth) and repeat frequency. VGA allows a resolution of 640x480 pixels, while VGA cables allow a higher resolution. The 15-pole VGA socket is used to transmit image signals (e.g. from laptop or PC monitor to a projector, VGA switch box etc)

#### XLR

Industry standard for electrical plug connections. Used in professional public-address and recording studio systems. 3-pole XLR connectors are used for analogue microphone and loudspeaker signals and for digital AES/EBU signals. 5-pole connectors are used for DMX digital lighting control data



earthing contact

France

France

Switzerland

USA

UK

UK



## M earthing contact, 35°

- Earthing contact socket insert, 16A/250V~ max. 3600W · Conforms to DIN VDE 0620-1 Design DIN 49 440
- $\cdot$  Colours: black, red, white, grey
- · Set at 35°
- $\cdot$  Module width 42.5 mm
- · For use in: Germany, Austria, Netherlands, Italy (parts), Spain, Portugal, Sweden, Norway, Finland, Slovenia, Romania, Hungary, Afghanistan, Andorra, Vatican State, San Marino, Estonia, South Korea, Indonesia, Iceland, Chile, Bulgaria



- Socket insert UTE/France, 16A/250V~ max. 3600W
- · Conforms to NF C 61-314
- · Child-proof
- · Colours: black, red, white, grey
- · Set at 35°
- · Module width 42.5 mm
- · For use in: France, Belgium, Poland, Monaco, Slovakia, Czech Republic



- M-UTE IT red
  - Socket insert UTE/France, for IT, red, 16A/250V~ max. 3600W
  - · Conforms to NF C 61-314
  - · Child-proof and with additional plug-in fuse
  - · Colour: red
  - · Set at 35°
  - · Module width 42.5 mm
  - · For use in: France, Belgium, Poland, Monaco, Slovakia, Czech Republic

## M-CH 0°



- · Set at 0°
- · Module width 35 mm
- · For use in: Switzerland, Liechtenstein



## M-USA 0° Socket insert, USA 15A/115V~ max.

- · Conforms to UL
- · Colour: black
- · Set at 0°
- · Module width 32 mm
- · For use in: USA, Canada, Mexico, South America (some regions)



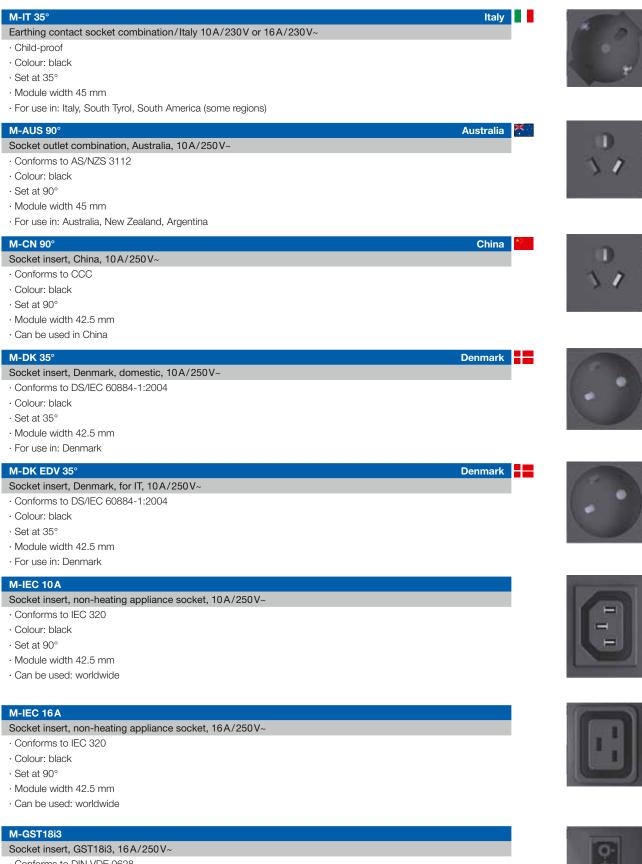
## M-UK FUSE 45°

- Socket insert, UK, individually fused, 3.15A/240V~ or 5A/240V~
- · Conforms to BS 5733:1995
- Individually fused, selectable 3.15 A or 5 A
- · Child-proof
- · Colour: black
- · Set at 45°
- · Module width 74.8 mm
- $\cdot$  For use in: UK as per standard for office furniture



- M-UK 90° Socket insert, UK, 13A/240V~
  - · Conforms to BS 1363
  - · Child-proof
  - · Colour: black
  - · Set at 90°
  - · Module width 54 mm
  - · For use in: UK, Ireland, Singapore, Malaysia, Cyprus, Malta, Hong Kong, Dubai

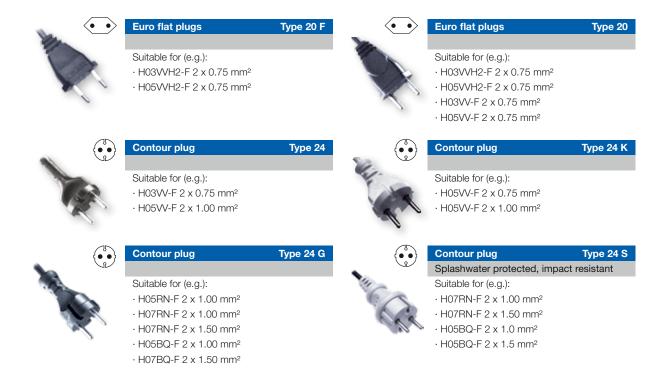




- Conforms to DIN VDE 0628
- $\cdot$  Colours: black, red, white, pebble grey
- · Set at 90°
- Module width 42.5 mm
- · Can be used: worldwide

## 2-pole plug systems without earthing contact

Suitable for all European countries except parts of Switzerland. Italy and UK.

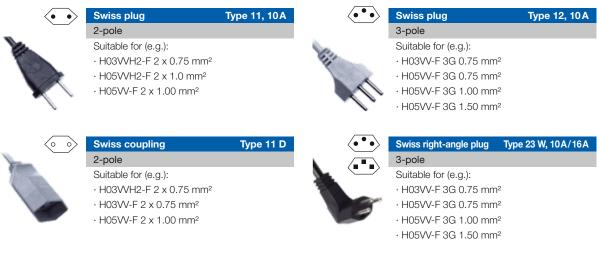


## IEC appliance connectors



## Swiss plugs and couplings

Version tested by SEV



Type 44

## International plugs

$\frown$	
$(\bullet \bullet)$	Plug with protection class (
$\bigcirc$	2-pole
	Suitable for (e.g.):
	<ul> <li>H03VV-F 2 x 0.75 mm²</li> </ul>
100	

- H05VV-F 2 x 0.75 mm²
- · H05VV-F 2 x 1.00 mm²
- · H05VV-F 2 x 1.50 mm²



#### UK plug Type 45-2, 13A

2-pole, moulded, with 13A fuse fitted

Suitable for (e.g.):

- · H03VVH2-2 x 0.75 mm²
- $\cdot$  H05VVH2-2 x 0.75 mm²
- · H03VV-F 2 x 0.75 mm²
- · H05VV-F 2 x 0.75 mm²
- · H05VV-F 2 x 1.00 mm²



UK plug	Type 45, 13 A
3-pole, moulded, with 13A fuse f	fitted
Suitable for (e.g.):	
· H03VV-F 3G 0.75 mm ²	
· H05VV-F 3G 0.75 mm ²	
· H05VV-F 3G 1.00 mm ²	
· H05VV-F 3G 1.50 mm ²	



#### USA plug UL/CSA Type 46-2 2-pole Cable types to suit your requirements

## USA plug UL/CSA Type 46 3-pole

Cable types to suit your requirements



## 3-pole plug systems with earthing contact

Suitable for all European countries except parts of Switzerland. Italy and UK.

Type 30

Type 32

# Right angle plug with earthing contact

# With dual earthing contact system

Suitable for (e.g.):

- · H03VV-F 3G 0.75 mm²
- · H05VV-F 3G 0.75 mm²
- · H05VV-F 3G 1.00 mm²
- · H05VV-F 3G 1.50 mm²
- · H07BQ-F 3G 1.50 mm²
- · H05BQ-F 3G 0.75 mm²

with earthing contact

splashwater protection

· H05VV-F 3G 1.50 mm²

· H05RR-F 3G 0.75 mm²

· H05RR-F 3G 1.50 mm2

· H07RN-F 3G 1.00 mm²

· H07RN-F 3G 1.50 mm² · H07BQ-F 3G 1.50 mm2 · H07RN-F 3G 2.50 mm2

Suitable for (e.g.):

With dual earthing contact system and

Central plug



### Central plug with earthing contact

## With dual earthing contact system

Suitable for (e.g.):

- · H03VV-F 3G 0.75 mm²
- · H05VV-F 3G 1.00 mm²
- · H05VV-F 3G 1.50 mm²
- · 05RV4-F 3G 0.75 mm²
- · H03V4V4-H 3G 1.00 mm²
- · H03RT-H 3G 0.75 mm²





Type 31



Suitable for (e.g.):

coupling

- · H05VV-F3G 1.00 mm2
- · H05VV-F 3G 1.50 mm²
- · H05VV-F 3G 2.50 mm²
- · H07RN-F 3G 1.00 mm2
- · H07RN-F 3G 1.50 mm²





Artikelnr.	Seite	Artikelnr.	Seite	Artikelnr.	Seite	Artikelnr.	Seite	Artikelnr.	Seite
110.2100	263	240.187	218	302.174	218	328.875	224	331.000	193
110.3118	263	240.189	218	302.274	218	328.876	224	331.006	193
116.270	216	241.174	218	304.174	219	329.213	179	331.007	193
116.271	216	241.175	218	304.175	219	329.214	179	331.010	193
116.272	216	241.274	218	304.176	219	329.215	179	331.011	193
116.280	216	241.275	218	304.184	219	329.600	183	331.012	193
118.270	216	244.875	223	304.185	219	329.601	183	331.013	193
119.270	216	244.876	223	304.274	219	329.602	183	331.014	193
119.271	216	246.174	223	304.275	219	329.604	183	331.032	195
119.272	216	246.175	223	304.276	219	329.605	183	331.035	195
119.274	216	246.176	223	304.284	219	329.606	183	331.040	195
119.280	216	246.185	223	304.285	219	329.615	183	331.071	193
119.281	216	246.186	223	304.974	219	329.616*	183	331.072	193
130.080	225	246.375	223	305.174	219	329.617	183	331.074	194
130.081	225	246.376	223	305.175	219	329.618*	183	331.0202	170
130.2101	263	248.174	223	305.176	219	329.700	184	332.071	194
130.2300	265	248.175	223	305.184	219	329.701	184	333.000	170
130.2400	265	248.176	223	305.185	219	329.702	184	333.001	170
130.2402	265	248.185	223	305.274	219	329.703	184	333.002	170
131.080	225	248.186	223	305.275	219	329.704	184	333.004	170
131.081	225	249.875	223	305.276	219	329.705	184	333.005	170
132.080	225	249.876	223	305.284	219	329.800	185	333.071	194
132.081	225	251.173	220	305.285	219	329.801	185	333.0122	162
133.080	225	251.183	220	305.974	219	329.802	185	333.0371	164
133.081	225	290.0608	265	305.975	219	329.3001	182	333.0374	164
150.070	225	300.000	143	311.273	220	329.3003	182	333.0375	164
150.072	225	300.000	173	311.274	220	329.3004	182	333.0376	164
150.0203	264	300.000	203	312.174	220	329.3009	181	333.0377	164
150.0205	264	300.001	143	312.175	220	329.3010	181	333.0378	164
150.0207	264	300.001	173	312.275	220	329.3011	181	333.0380	164
150.0209	264	300.001	203	313.175	220	329.3012	181	333.0382	164
150.0211	264	300.002	143	313.185	220	329.3013	181	333.400	161
150.0212	264	300.002	173	317.000	34	329.3014	181	333.401	161
151.070	225	300.002	203	317.001	34	329.3102	181	333.402	161
151.072	225	300.003	143	317.100	35	329.3104	181	333.403	161
190.270	216	300.003	173	317.101	35	329.3105	181	333.404	161
190.270	273	300.003	203	317.102	35	330.070	193	333.405	161
190.271	217	300.004	143	317.117	35	330.071	193	333.406	161
190.271	273	300.004	173	320.174	224	330.072	193	333.407	163
190.273	274	300.004	203	320.175	224	330.073	193	333.408	162
202.174	217	300.005	143	320.176	224	330.100	199	333.410	162
202.174	217	300.005	173	320.176	224	330.100F	201	333.411	162
202.175	217	300.005	203	320.185	224	330.100F	199	333.412	162
202.184	217	300.005	173	320.186	224	330.101 330.101F	201	333.412	162
						330.10TF 330.102			
202.274	217	300.006	203	321.175	224		199	333.416	161
202.275	217	300.007	173	321.176	224	330.103	199	333.417	162
202.284	217	300.007	203	322.174	224	330.104	199	333.418	165
202.285	217	300.011	173	322.175	224	330.104F	201	333.419	165
211.174	217	300.011	203	322.176	224	330.105	199	333.0422	179
211.274	217	300.012	173	322.184	224	330.106	199	333.505	161
233.184	231	300.012	203	322.185	224	330.106F	201	333.506	161
233.185	231	301.174	219	322.186	224	330.107	199	333.534	161
233.186	231	301.175	219	323.185	224	330.140	200	333.535	161
233.284	231	301.274	219	323.186	224	330.142	200	333.536	161
233.285	231	301.275	219	327.875	224	330.153	200	333.537	161
233.286	231	301.974	219	327.876	224	330.300	200	333.538	162

Artikelnr.	Seite	Artikelnr.	Seite	Artikelnr.	Seite	Artikelnr.	Seite	Artikelnr.	
333.539	161	336.604	140	343.372	232	361.174	222	375.115	
33.540	162	336.606	51	343.373	232	361.184	222	375.115	
333.600	171	338.0080	27	344.170	235	372.174	222	375.116	
333.601	171	338.0081	27	344.171	235	372.184	222	375.116	
333.602	171	338.0200	13	344.172	235	373.174	222	375.117	
333.604	171	338.0201	13	344.174	235	375.000	123	375.117	
333.605	171	338.0203	22	344.175	235	375.000	147	375.127	
333.616	161	338.0204	22	345.170	234	375.003	123	375.128	
33.804	164	338.0205	22	345.171	234	375.003	147	375.129	
333.805	164	338.0206	22	345.172	234	375.004	124	375.500	
333.808	179	338.0210	13	346.170	234	375.005	123	375.500	
333.810	179	338.0212	13	346.171	234	375.005	147	375.501	
33.815	161	338.0214	22	346.172	234	375.007	123	375.502	
333.819	165	338.0219	13	347.170	235	375.007	147	375.503	
33.830	161	338.0221	13	347.171	235	375.016	123	375.504	
33.838	165	338.0227	22	347.172	235	375.017	123	375.505	
33.840	165	338.0230	13	348.171	234	375.018	123	375.506	
33.862	179	338.0231	13	348.172	234	375.038	123	375.507	
33.864	179	339.1000	41	349.006	245	375.038	147	375.514	
33.1007	24	339.1001	41	349.007	245	375.039	123	375.515	
33.1008	24	339.1001	145	349.008	243	375.039	147	375.516	
33.4061	165	339.1002	41	349.009	243	375.040	124	375.517	
33.4063	165	339.1004	41	349.010	243	375.044	123	375.518	
33.4065	165	339.1005	41	349.012	245	375.045	123	375.519	
333.4066	165	339.1006	41	349.020	243	375.046	123	375.520	
34.001	197	341.184	231	349.027	245	375.050	123	375.521	
334.003	197	341.185	231	349.028	245	375.050	147	375.523	
334.006	197	341.186	231	349.029	245	375.053	123	375.524	
35.002	196	341.189	231	349.033	245	375.053	147	375.529	
335.007	196	341.200S	230	349.035	245	375.055	123	380.270	
35.009	196	341.201S	230	349.183	245	375.055	147	380.271	
335.050	210	341.2025	230	349.184	243	375.064	124	381.121K	
35.051	210	341.203S	230	349.185	243	375.068	123	381.130K	
35.055	211	341.281	231	349.203	273	375.069	123	381.141S	
36.003	52	341.284	231		244	375.070	123	381.144S	
336.004	52	341.285	231	349.301	244	375.071	124	381.146K	
36.004	141	341.286	231	349.302	244	375.072	124	381.147K	
36.006	52	341.287	231	349.303	244	375.073	124	381.148K	
36.014	52	341.288	231	349.304	244	375.075	123	381.149K	
36.015	52	341.289	231	349.305	244	375.075	147	381.150K	
36.015	141	341.870	230	351.174	221	375.076	124	381.151K	
36.039	51	341.879	230	351.184	221	375.079	124	381.152K	
36.046	51	341.880	256	351.974	221	375.080	123	381.221K	
336.065	52	343.170	233	351.984	221	375.081	123	381.223K	
36.067	51	343.171	233	352.174	221	375.082	123	381.230K	
36.072	51	343.172	233	352.175	221	375.083	123	381.241S	
36.076	51	343.173	233	353.175	221	375.097	147	381.244S	
36.079	51	343.174	233	353.185	221	375.098	147	381.246K	
36.088	51	343.175	233	353.975	221	375.101	124	381.247F	
36.600	51	343.176	233	353.985	221	375.101	147	381.247K	
36.600	107	343.177	233	356.119	187	375.102	124	381.248F	
36.600	140	343.179	233	356.120	187	375.102	147	381.248K	
36.601	51	343.191	233	356.174	222	375.102	124	381.249K	
336.601	140	343.192	233	356.175	222	375.105	147	381.250F	
336.603	51	343.370	232	356.974	221	375.106	124	381.250K	

206 208 208 206 206 207 207 207 209 209 209 208 208 208 208 208 205	394.200 395.180 395.181 396.181 396.182 396.183 396.184 396.185 396.185 396.187 396.188 397.003 398.180 398.181	247 238 238 239 239 239 240 240 240 239 241 238 239	410.015 410.016 410.017 410.018 410.019 410.020 410.021 509.000 509.001 509.002 509.003	215 215 215 215 215 215 215 215 144 134	681.882 682.880 682.881 682.882 683.880 683.881 683.882	228 228 228 228 228 228 228 228 228	800.0050         800.0051         800.0052         800.0053         800.0100         800.0101*	187 187 187 186 167
208 206 206 207 207 209 209 209 208 208 208 208	395.181         396.181         396.182         396.183         396.184         396.185         396.187         396.188         396.188         396.188         396.188         397.003         398.180         398.181	238 239 239 240 240 239 241 238	410.017 410.018 410.019 410.020 410.021 509.000 509.001 509.002	215 215 215 215 215 215 144	682.881 682.882 683.880 683.881	228 228 228 228 228	800.0052 800.0053 800.0100	187 186
206 206 207 207 209 209 208 208 208 208	396.181         396.182         396.183         396.184         396.185         396.185         396.187         396.188         396.188         397.003         398.180         398.181	238 239 239 240 240 239 241 238	410.018 410.019 410.020 410.021 509.000 509.001 509.002	215 215 215 215 215 144	682.882 683.880 683.881	228 228 228	800.0053 800.0100	186
206 207 207 209 209 208 208 208 208 208	396.182         396.183         396.184         396.185         396.187         396.188         396.188         397.003         398.180         398.181	239 239 240 240 239 241 238	410.019 410.020 410.021 509.000 509.001 509.002	215 215 215 144	683.880 683.881	228 228	800.0100	
206 207 207 209 209 208 208 208 208 208	396.183 396.184 396.185 396.187 396.188 397.003 398.180 398.181	239 240 240 239 241 238	410.020 410.021 509.000 509.001 509.002	215 215 144	683.881	228		167
207 207 209 209 208 208 208 208 208	396.184         396.185         396.187         396.188         397.003         398.180         398.181	240 240 239 241 238	410.021 509.000 509.001 509.002	215 144			800.0101*	
207 209 209 208 208 208 208 208	396.185 396.187 396.188 397.003 398.180 398.181	240 239 241 238	509.000 509.001 509.002	144	683.882	228		167
209 209 208 208 208 208 208	396.187 396.188 397.003 398.180 398.181	239 241 238	509.001 509.002				800.0102	167
209 208 208 208 208 205	396.188 397.003 398.180 398.181	241 238	509.002	134	684.880	228	800.0103*	167
208 208 208 205	397.003 398.180 398.181	238			684.881	228	800.0104*	167
208 208 205	398.180 398.181		509.003	134	684.882	228	800.0105	167
208 205	398.181	239		134	685.880	228	800.0106*	167
205			509.004	135	685.881	228	800.0107	167
	000 100	239	509.005	135	685.882	228	800.0108*	167
205	398.182	239	509.006	137	692.180	227	800.0109	167
	398.183	238	509.007	137	692.181	227	800.0110*	167
205	398.184	238	509.008	137	692.182	227	800.0111*	167
205	398.185	239	509.009	136	692.280	227	800.0112*	167
205	398.186	239	509.010	138	692.281	227	800.0113*	167
205	398.200	241	509.011	138	692.282	227	800.0114*	167
208	398.200	256	509.012	136	693.180	228	800.0119	167
205	399.000	237	509.013	139	693.181	228	852.101	258
208	399.001	237	509.014	139	693.182	228	852.102	258
205	399.002	237	509.015	144	693.280	228	852.103	258
205	399.003	237	601.180	227	693.281	228	852.104	258
205	399.004	237	601.280	227	693.282	228	852.982	257
205	399.005	237	624.871	229	693.283	229	900.002	266
205	399.006	237	641.170	252	720.000	249	900.003	266
207	399.007	237	641.170	274	720.006	248	900.004	266
205	399.009	237	641.171	252	720.013	252	900.005	266
207		237		274		251		266
205		237		227		251		266
			653,181					266
								266
								241
								241
								241
								259
								39
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								39
								39
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								39
248	410.008	215	665.871	229	755.001	169	902.012	40
248	410.009	215	672.180	230	755.002	169	902.017	39
248	410.010	215	672.181	230	755.003	169	902.017	40
247	410.011	215	672.280	230	755.004	169	902.017	145
247	410.012	215	672.281	230	770.000	148	902.018	39
247	410.013	215	681.880	228	770.001	148	902.018	40
	205       208       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       205       213       213       213       2148       215       216       217       218       219       210   <	205     398.186       205     398.200       205     399.001       205     399.002       205     399.002       205     399.002       205     399.003       205     399.004       205     399.004       205     399.002       205     399.004       205     399.004       205     399.006       205     399.007       205     399.007       205     399.001       205     399.001       205     399.001       205     399.012       205     399.102       205     399.102       205     399.102       205     399.102       205     399.102       205     399.103       205     399.181       239     399.182       213     399.183       213     410.001       213     410.002       213     410.002       213     410.003       213     410.004       213     410.005       213     410.006       213     410.007       2148     410.008       215     410.001       216 <t< td=""><td>205398.186239205398.200241208398.200256205399.001237205399.002237205399.003237205399.004237205399.005237205399.006237205399.007237205399.001237205399.001237205399.010237205399.011237205399.012237205399.013237205399.180240205399.181240205399.182240205399.183240213399.184240242399.185241213410.001215213410.002215213410.003215213410.004215213410.005215213410.005215213410.005215213410.005215214410.005215213410.006215248410.011215248410.012215247410.012215247410.013215247410.013215</td><td>205398.186239509.010205398.200241509.012205399.000237509.013205399.001237509.014205399.002237601.80205399.003237641.70205399.007237641.171205399.001237641.171205399.001237641.171205399.010237641.171205399.011237641.171205399.012237653.180205399.013237653.181205399.013237653.181205399.112237653.182205399.181240653.281205399.182240654.280213399.182240654.281213399.183240654.281213399.184241654.281213410.001215654.282213410.002215663.71213410.003215663.371213410.004215663.371213410.005215663.371214410.007215663.371215410.007215663.371216410.007215663.371217410.014215653.82218410.007215663.371219410.007215663.371214410.007</td><td>205398.186239206398.200241398.200256399.000237399.001237399.002237399.003237399.004237399.005237399.005237399.006237399.007237399.008237399.009237399.009237399.010237399.010237399.011237399.012237399.013237399.013237399.014237399.015241399.015241399.181240399.182240399.183240399.184241399.185241399.186241399.186241399.187241399.188241399.188241399.189241399.180241399.180241399.181241399.182241399.183241399.184241399.185241399.185241399.180241399.181241399.182241399.183241399.184241399.185241399.185241399.180241410.001215654.281227654.282227654.281&lt;</td><td>205398.186239509.010138692.281206398.200241509.011138692.282208399.000237509.013139693.182205399.002237509.014139693.182205399.003237509.016144693.280205399.004237601.180227693.281205399.005237641.170226720.008399.006237641.171274720.008399.010237641.171274720.008399.011237643.181227720.001399.012237643.181227730.044399.013237643.171274720.021399.014237643.181227730.045399.0152437653.181227730.045399.016240653.281227730.045399.180240653.281227730.045399.181240654.283227740.006242399.182240654.281227740.006243410.001215654.281227740.006244410.002215654.281229740.016245410.004215663.710229740.016246410.005215663.711229755.002247410.014215665.71229755.002248<td< td=""><td>205398.186239509.010138602.281227206398.200256509.012136692.282228205399.001237509.014139693.182228205399.003237509.015144693.281228205399.004237509.014139693.182228205399.005237601.800227693.281228205399.005237601.800227693.281228205399.005237641.170252693.281228205399.007237641.171252720.000249205399.001237641.171274720.020249205399.010237653.180227720.020251399.010237653.181227720.020251399.013237653.182227730.005274399.181240653.281227730.005274399.182240654.182227740.000276399.183240654.182227740.000276399.184240654.182227740.000276399.185241654.283229740.000276399.186240654.182227740.000276399.186241654.283229740.000276399.186241654.283</td></td<></td></t<> <td>205         398.166         239         500.010         138         692.281         227         600.0114           206         398.200         241         509.011         138         692.282         227         600.0114           206         398.000         237         509.013         139         693.181         228         682.101           206         399.002         237         509.013         139         693.182         228         682.101           205         399.002         237         601.80         227         693.281         228         682.101           205         399.004         237         601.200         227         693.283         229         90.002           207         399.004         237         641.170         224         693.281         228         90.003           206         399.011         237         641.171         274         720.000         248         900.013           206         399.013         237         643.180         227         720.021         251         900.011           208         399.013         237         653.180         227         730.05         274         900.016</td>	205398.186239205398.200241208398.200256205399.001237205399.002237205399.003237205399.004237205399.005237205399.006237205399.007237205399.001237205399.001237205399.010237205399.011237205399.012237205399.013237205399.180240205399.181240205399.182240205399.183240213399.184240242399.185241213410.001215213410.002215213410.003215213410.004215213410.005215213410.005215213410.005215213410.005215214410.005215213410.006215248410.011215248410.012215247410.012215247410.013215247410.013215	205398.186239509.010205398.200241509.012205399.000237509.013205399.001237509.014205399.002237601.80205399.003237641.70205399.007237641.171205399.001237641.171205399.001237641.171205399.010237641.171205399.011237641.171205399.012237653.180205399.013237653.181205399.013237653.181205399.112237653.182205399.181240653.281205399.182240654.280213399.182240654.281213399.183240654.281213399.184241654.281213410.001215654.282213410.002215663.71213410.003215663.371213410.004215663.371213410.005215663.371214410.007215663.371215410.007215663.371216410.007215663.371217410.014215653.82218410.007215663.371219410.007215663.371214410.007	205398.186239206398.200241398.200256399.000237399.001237399.002237399.003237399.004237399.005237399.005237399.006237399.007237399.008237399.009237399.009237399.010237399.010237399.011237399.012237399.013237399.013237399.014237399.015241399.015241399.181240399.182240399.183240399.184241399.185241399.186241399.186241399.187241399.188241399.188241399.189241399.180241399.180241399.181241399.182241399.183241399.184241399.185241399.185241399.180241399.181241399.182241399.183241399.184241399.185241399.185241399.180241410.001215654.281227654.282227654.281<	205398.186239509.010138692.281206398.200241509.011138692.282208399.000237509.013139693.182205399.002237509.014139693.182205399.003237509.016144693.280205399.004237601.180227693.281205399.005237641.170226720.008399.006237641.171274720.008399.010237641.171274720.008399.011237643.181227720.001399.012237643.181227730.044399.013237643.171274720.021399.014237643.181227730.045399.0152437653.181227730.045399.016240653.281227730.045399.180240653.281227730.045399.181240654.283227740.006242399.182240654.281227740.006243410.001215654.281227740.006244410.002215654.281229740.016245410.004215663.710229740.016246410.005215663.711229755.002247410.014215665.71229755.002248 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        398.166         239         500.010         138         692.281         227         600.0114           206         398.200         241         509.011         138         692.282         227         600.0114           206         398.000         237         509.013         139         693.181         228         682.101           206         399.002         237         509.013         139         693.182         228         682.101           205         399.002         237         601.80         227         693.281         228         682.101           205         399.004         237         601.200         227         693.283         229         90.002           207         399.004         237         641.170         224         693.281         228         90.003           206         399.011         237         641.171         274         720.000         248         900.013           206         399.013         237         643.180         227         720.021         251         900.011           208         399.013         237         653.180         227         730.05         274         900.016

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2.019	39	903.113	106	909.005	19	911.171	267	912.173	
2.019	40	903.114	101	909.006	19	911.172	267	912.174	
02.039*	39	903.400	90	909.007	19	911.270	267	912.270	
02.0048	39	903.402	90	909.008	19	911.271	267	912.271	
02.0049	39	903.500	90	909.009	19	911.272	267	912.273	
02.0050	39	903.600	90	909.0023*	18	911.273	267	912.274	
02.200	46	903.2000	89	909.0027*	19	911.470	267	912.470	
02.201	47	903.2001	89	909.0029*	19	911.500	27	912.971	
02.202	47	903.3000	89	909.010	18	911.501	27	913.000	
02.202	46	903.3001	89	909.011	18	911.502	27	913.005	
02.204	46	904.000	30	909.012	19	911.503	27	913.169	
02.205	40	904.001	30	909.013	19	911.900	23	913.170	
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02.206	46	904.002	30	909.014		911.901	23	913.171	
02.207	46	904.003	30	909.015	19	911.902	23	913.172	
02.208	46	904.004	30	909.016	19	911.903	23	913.173	
02.209	47	904.005	30	909.017	18	911.904	23	913.174	
02.211	46	904.006	30	909.018	18	911.905	23	913.175	
02.300	46	904.007	30	909.019*	19	911.906	23	914.270	
02.301	47	904.008	31	909.020*	19	911.907	23	914.271	
02.302	47	904.009	31	909.025	18	911.908	23	914.272	
02.400	46	904.010	31	909.028*	18	911.909	23	914.273	
02.401	47	904.011	31	909.029*	18	911.910	23	914.670	
02.402	47	904.020*	30	909.033*	19	911.913	23	914.672	
02.403	46	904.021*	30	909.050*	19	912.000	24	915.000	
02.404	46	904.022*	30	909.058*	18	912.000	118	915.001	
02.405	47	904.023*	30	909.065*	18	912.001	25	915.170	
02.406	46	904.024*	30	910.002	245	912.001	118	915.171	
02.407	46	904.025*	30	910.100	266	912.002	24	915.172	
02.408	46	904.026*	30	910.105	241	912.003	24	915.173	
02.409	47	904.027*	30	910.106	241	912.004	25	915.174	
02.411	46	904.100	232	910.170	267	912.005	25	915.175	
02.500	46	904.900	31	910.171	266	912.006	25	915.270	
02.501	47	906.000	51	910.174	270	912.007	25	915.271	
02.502	47	906.000	141	910.175	270	912.008	25	915.970	
02.2048	46	906.001	51	910.176	270	912.009	24	915.971	
02.4048	46	906.002	51	910.177	270	912.010	24	915.973	
03.000	63	906.003	51	910.178	270	912.011	25	916.000	
03.001	63	906.003	141	910.179	270	912.012	25	916.001	
03.002	107	906.005	42	910.182	270	912.013	25	916.002	
03.100	94	906.005	52	910.200	266	912.014	25	916.003	
03.101	94	906.005	142	910.270	267	912.015	24	916.004*	
03.102	95	906.009*	51	910.271	266	912.016	24	916.005*	
03.102	102	906.031	51	910.275	270	912.017	25	916.010	
03.103	96	906.031	141	910.275	270	912.017	25	916.059	
03.104	101	906.039	141	910.277	270	912.019	25	916.060	
03.106	101	906.067	52	910.282	270	912.019	25	916.061	
03.107	107	906.067	51	910.470	267	912.022*	25	916.062	
3.107	121	906.071	51	910.971	267	912.023*	24	916.063	
03.108	107	906.080*	51	910.1011	248	912.024	25	916.170	
03.108	121	906.1059*	51	911.000	22	912.025	25	916.970	
03.109	107	906.1086*	51	911.001	22	912.035*	25	917.000	
03.109	121	909.000	18	911.002	22	912.037*	24	917.000	
03.110	107	909.001	19	911.003	22	912.045*	24	917.001	
03.110	121	909.002	18	911.004	22	912.0055*	24	917.001	
03.111	106	909.003	18	911.005	22	912.170	267	917.002	
03.112	106	909.004	18	911.170	267	912.171	266	917.003	

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917.007	65	917.081	75	917.182	80	919.014	255	924.010	278
917.008	65	917.083	76	917.183	74	919.015	255	924.011	278
917.009	83	917.085	75	918.001	43	919.016	255	924.012	278
917.010	83	917.088	76	918.002	23	919.018	255	924.023	279
917.011	73	917.089	77	918.003	120	919.169	271	924.024	279
917.012	81	917.090	76	918.006	106	919.170	273	924.025	279
917.012	146	917.090	146	918.006	120	919.171	268	924.026	279
917.018	80	917.091	77	918.007	106	919.173	207	924.027	279
917.019	80	917.093	82	918.007	120	919.176	268	924.028	279
917.021	74	917.093	105	918.008	106	919.177	269	924.029	279
917.022	76	917.094	79	918.008	120	919.178	268	924.031	279
917.022	70	917.094	79	918.009	120	919.179	269	924.031	279
								924.032	
917.024	78	917.096	78	918.009	120	919.183	256		279
917.026	75	917.098	78	918.010	122	919.189	256	924.034*	279
917.027	75	917.099	78	918.011	122	919.190	256	924.036	279
917.028	75	917.100	79	918.012	122	919.270	273	924.037	279
917.030	76	917.101	78	918.013	122	919.273	207	924.038	279
917.031	81	917.102	79	918.014	122	919.284	256	924.039	279
917.031	146	917.110	79	918.015	121	919.371	232	924.043	279
917.032	66	917.111	83	918.016	121	919.1000	119	924.044	279
917.033	66	917.112	81	918.017	121	919.1001	119	924.045	279
917.035	76	917.113	81	918.018	121	919.1100	118	924.046	279
917.036	77	917.114	79	918.019	121	919.1101	118	924.047	280
917.037	80	917.116	81	918.020	121	919.1751	269	924.048	280
917.038	64	917.117	76	918.021	122	919.2000	118	924.049	280
917.039	65	917.120	80	918.022	122	919.2001	118	924.050	280
917.040	83	917.127	82	918.023	106	919.2002	118	924.051	280
917.041	83	917.127	106	918.024	122	919.2003	118	924.052	280
917.045	72	917.134	72	918.025	53	919.2004	118	924.053	280
917.046	82	917.134	106	918.033	67	919.2005	118	924.054	280
917.047	82	917.135	82	918.033	120	920.000	257	924.055	280
917.051	65	917.139	63	918.033	146	921.000	261	924.056	281
917.052	65	917.140	63	918.034	67	921.001	261	924.057	281
917.056	82	917.141	80	918.034	120	921.002	261	924.058	281
917.056	104	917.143	74	918.035	67	921.003	261	924.059	281
917.057	66	917.145	74	918.040	74	921.004	259	924.060	281
917.060	42	917.150	72	918.045	67	921.005	259	924.061	281
917.060	82	917.152	82	918.066	107	921.006	259	924.062	281
917.060	146	917.153	65	918.066	120	921.008	260	924.063	281
917.061	64	917.157	77	918.067	107	921.010	259	924.064	281
917.062	64	917.158	64	918.067	120	921.011	259	924.065	281
917.064	62	917.159	64	918.068	120	921.012	261	924.066	281
917.065	62	917.160	72	918.068	120	921.012	261	924.067	281
917.065	62		72	918.069	120	921.013	259	924.067	281
		917.161							
917.067	63	917.162	75	918.069	120	921.271	209	924.069	281
917.068	63	917.163	77	918.071	67	922.014	143	924.071*	280
917.069	73	917.164	77	918.071	146	922.271	274	924.072	280
917.070	73	917.165	78	918.072	67	922.281	274	924.073	282
917.071	72	917.166	83	918.072	146	923.170	274	924.074	282
917.072	73	917.167	83	918.073	67	923.174	269	924.075	282
917.073	72	917.168	62	918.074	67	923.270	274	924.076	282
917.074	73	917.169	62	918.170	272	924.001	278	924.077	282
917.075	80	917.170	271	918.171	273	924.002*	278	924.078	282
917.076	80	917.171	272	919.003	257	924.004	278	924.079	282

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924.090	283	924.168	253	925.003	16	940.044	66
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924.092*	283	924.168	289	925.501	17	940.045	122
924.094	284	924.172*	278	925.800	17	940.046	122
924.095	284	924.173	278	925.801	17	940.047	107
924.096	284	924.201	278	930.030	127	940.047	120
924.097	284	924.203	280	930.031	127	940.048	107
924.098	284	924.224	253	930.032	127	940.048	120
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924.101				930.034	127		122
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924.103		924.225	277	930.035	128	940.052	
924.109	284	924.231	253	930.036	127	940.053	120
924.111	283	924.231	277	930.037	127	940.057	66
924.112	283	924.250	253	930.038	127	940.057	146
924.113	283	924.250	277	930.039	128	940.070	125
924.114	283	924.259	279	930.040	128	940.071	125
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924.116	284	924.261*	279	930.042	128	940.074	125
924.117	284	924.264	281	930.044	128	940.083	66
924.118	284	924.265	282	930.045	128	940.085	66
924.120	284	924.266*	282	930.049	127	940.085	146
924.127	284	924.267	282	930.050	127	940.089	120
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924.131	285	924.330	289	930.055	128	940.096	186
924.132	285	924.332	253	930.057	128	940.097	53
924.133	285	924.332	277	930.058	127	940.099	19
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924.140	286	924.340	283	930.063	129	940.112	66
924.141*	286	924.700*	113	930.064	129	940.140	187
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924.143	286	924.1018	114	930.120	43	940.142	186
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924.145*	286	924.1039*	114	930.143	67	950.000	274
924.146	286	924.1040*	114	930.180	43	950.002	274
924.149	287	924.1041	113	930.182	43	950.003	274
924.151	287	924.1046	114	930.183	43	950.004	274
924.152	287	924.4000	112	930.183	145		
924.153	287	924.4001	112	930.900	130	* No storage type	3
924.153	287	924.4001	112	930.900	130		
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924.157	288	924.4005*	113	930.904	130		
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