Passive components

Passive components	Introduction	C.2
	Weidmüller IE-LINE	C.6
	Weidmüller IE-LINE RJ45	C.30
	Weidmüller IE-LINE M12	C.38
	Front panel interface	C.44

Industrial Ethernet – passive components

Connection technology from Weidmüller

You need only one supplier for connecting and linking your devices: Weidmüller – one-stop shopping for all your connection technology needs.

Passive components

- RJ45 and M12 connecting elements
- Copper cables
- Fibre-optic cable (FO)

Here are just a few of the relevant standards

IEC 61076-3-106/117: this standard describes the design and construction of plug and flange housings for RJ45 in IP67. IEC 61076-2-101: this standard describes the design and construction of M12, D-coded connectors for Ethernet

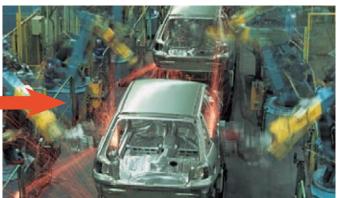
Transmission characteristics:

- Cat.5/class D: max. 100 MHz, for 100BASE-TX
- Cat.6/class E: max. 250 MHz, for 1GBASE-T
- Cat.6A/class E_A: max. 500 MHz, for 10GBASE-T
- Cat.7/class F: max. 600 MHz, for 10GBASE-TX

For offices ...



... and industrial applications



Standards

- ISO/IEC 11801
- ISO/IEC 60603-7 (RJ 45)

Standards

Production floors

• IEC 24702

Production units

- ISO/IEC 61918 (CD-V)
- IEC 61784-5

Plug-in connectors to IEC 61076-3-106



Variant 4 and others







Variant 1 Variant 6 Variant 14

Structured cabling

Take account of the directives for structured cabling according to DIN EN 50173/50174 during planning and installation work.

Industrial Ethernet exists in a variety of different industrial environments.

There, its advantages are well known:

- the ability to interconnect multiple networks that are often separated by great distances
- Teleservicing
- Teleservices
- Continuity within the corporate network



Machine construction

- Monitoring of operational characteristics
- Teleservicing



Automotive construction

- Networking machinery and plants
- Interfacing to the corporate network



Traffic engineering

- Control of individual applications
- Passenger information systems



Process industry

- Networking individual process steps
- Interfacing to the process management level

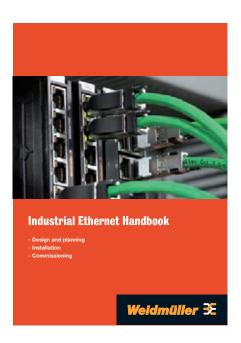
Best service

Practical Guidelines for Industrial Ethernet

Are you an electrical engineer, installer or contractor in search of assistance, tricks and checklists for working on Industrial Ethernets? Our practical guidelines provide detailed descriptions for the installation and implementation of industrial networks.

- You'll find helpful tips and recommendations for selecting the proper components and for documenting your network
- Real-world practical advice for assembling copper and fibre-optic cables
- Pointers to the current standards and regulations in the industrial networking sector
- Simple network implementation, including tips for operation and security
- Maintenance tips for preventing crashes
- ...and much more!

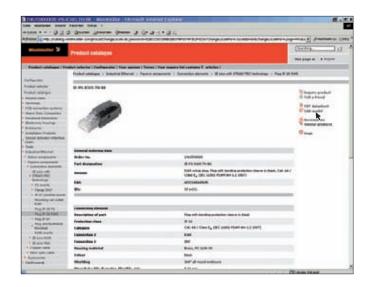
Please ask your personal sales representative about these practical guidelines.



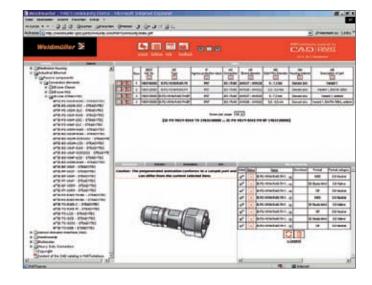
3-D data

Do you require 3-D models of your components so you can design them into your application? And precisely in your own CAD format?

The parts are located in our Online Catalogue with a direct link to the Partserver (www.partserver.com). You can then input your product, CAD format and e-mail address. And you will quickly receive an e-mail with your 3-D model as an attachment.



You can also login at the web site http://Weidmüller.sp02. partcommunity.com/ to view and download 3-D files.



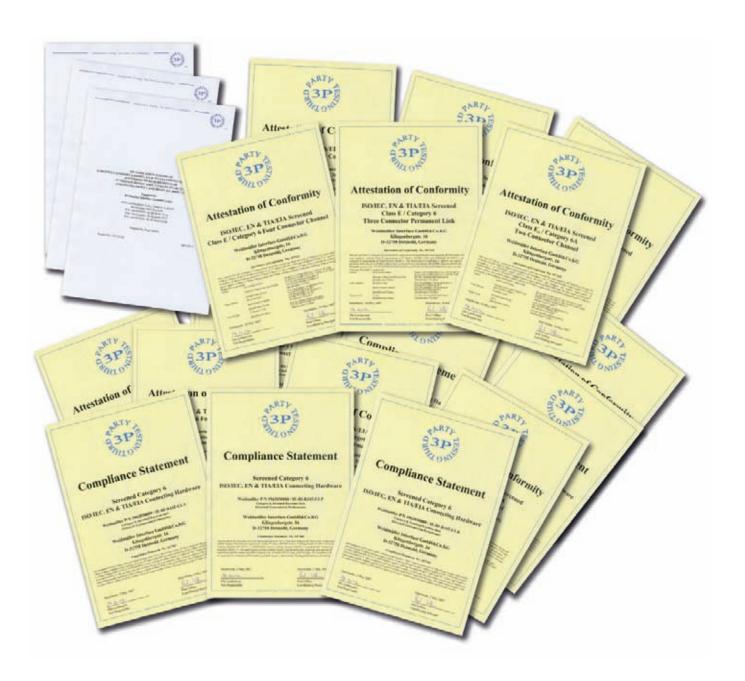
... and what more can Weidmüller do for you?

Certificates

Do you want to prove to your customer that you have installed only the best components? The GHMT (Society for High-frequency Measuring Technology) and the 3P (Third Party Testing) are independent testing institutes and recognized specialists for industrial cabling The institutes support the industry by means of test certifications for communication cables, connection hardware, patch cords and permanent links and channels.

Their other primary functions are brand testing, safety testing, quality analyses, and error analyses.

By means of these proven certificates, we can assure you of our high quality and performance expectations. Please ask your personal sales partner if you would like to see a copy of our certifications. You can also download the individual certificates from our online catalogue.



The Weidmüller IE-LINE plug-in connectors with $STEADYTEC^{®}$ technology



STEADYTEC® – this name stands for the future of connection technology in the field of data and signal transmissions. Established by the leading names in this branch of industry, the technology brand **STEADY**TEC® forms the foundation for reliable, application-centric and conforming solutions – for offices and harsh industrial conditions.

The objective: The development of reliable plug-in connector technologies for industrial applications. Technologies that satisfy the highest customer demands and hence enable new, professional and consistent solutions.

The result: An extremely reliable, extraordinarily practical, flexible and especially efficient plug-in connector system for office and industrial applications. Using products whose characteristics reflect perfectly the values from which they originated:

fast

- reliable
- solution-based
- simple

The Ethernet connector system: clever – flexible – modular

Connectors for modern industrial applications need to be designed in such a way that they simplify processes and cope with faster data transmission. Weidmüller's Ethernet connectors keep you a step ahead. These products are not only ready for 10 gigabit, they are also standardized for IEC 61076-3-106 and IEC 61076-3-117. In addition, the connector variants 4 (Ethernet/TCP/IP), variants 5 and 1 (Ethernet IP) and variant 14 (PROFINET/AIDA) which are named in these standards are all specified as mandatory in the standards covering generic cabling systems for industrial premises: ISO/IEC 24702, IEC 61918 (Automation Island), as well as for Fieldbus installations IEC 61784-5. What's more, you have a unique choice of versions made of plastic or metal as well as inserts for copper and fibre-optic cabling.

All of the connectors are designed for ease of use and for quick on-site assembly. They are also modular and are tailored to suit your application.





Tool-less assembly and powerful connections: the RJ45 gigabit connector!

You can now securely plug the connector you need directly into your machinery with very little effort – and without a single tool! The 10-gigabit connector, with IDC-connection, was developed to provide quick, simple, secure and, most importantly, tool-free wiring.

In addition, zinc die-casting makes the connector extra robust and therefore suitable for industrial applications. It is also fitted with a protected locking clip for tough industrial applications. Weidmüllers IE product line fulfils the requirements for 10 GBit Ethernet, according to IEEE 802.3an, up to 500 MHz.

STEADYTEC®: Systematic benefits

- Cat.6A 10GBit System Class EA
- · Assembly without tools in the field
- Countless variations thanks to highly diverse combinations of inserts
- Unrestricted compatibility because standardised to IEC 61076-3-106
- Reliable and long-lasting thanks to diecast zinc
- Suitable for industry thanks to IP 67 class of protection
- Simple ordering procedure and low storage costs thanks to Weidmüller's modular system



1. Strip sheath cladding and shorten shield to 5 mm



2. Prepare wires and shorten



3. Snap together the two pluggable elements



4. Finished

Connector overview

Connectors for copper cable



RJ45 (IP20)

acc. to IEC 60603-7

For use in office environments, in floor and building distributors, or in the electrical cabinet

The benefits:

- For high-speed transmissions, up to 10-gigabit Ethernet
- Standardized internationally
- Can be used overall
- Sturdy version suitable for industrial applications



RJ45 (IP67) acc. to IEC 61076-3-106

For connections between electrical cabinets and for use in the field for gigabit applications

The benefits:

- For high-speed transmissions, up to 10-gigabit Ethernet
- IP67 protection
- Can be assembled in the field



M12, D-coded acc. to IEC 61076-2-101

For use near machinery or where a high degree of vibration resistance is required

The benefits:

- Compact design
- IP67 protection
- Can be used with extrusion mould or assembled in the field
- particularly resistant to vibrations

Connector for fibre-optic cable



SC duplex

acc. to IEC 61754-4

For use in building distributors, electrical cabinets, together with protective housing it can also be used in the field or for connecting our active components

The benefits:

• For multi-mode, single-mode or POF



SC-R.I

acc. to IEC 61754-24

For use in building distributors, electrical cabinets, or together with protective housing it can also be used in the field in compliance with PROFINET directive

The benefits:

• For multi-mode, single-mode and POF



LC-Duplex acc. to IEC 61754-20

For use in building distributors, electrical cabinets, or together with protective housing it can also be used in the field in compliance with EtherNet/IP directive

The benefits:

- For multi-mode and single-mode
- In protective housing, also in IP67



ST

acc. to IEC 61754-2

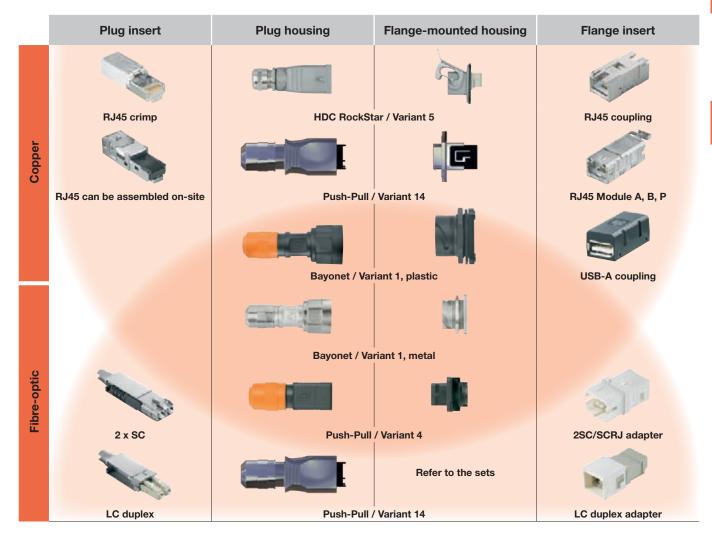
For use in building distributors, electrical cabinets, or for connecting our active components

The benefits:

For multi-mode, single-mode and POF

Unlimited combinations: the modular principle





Take advantage of maximum flexibility! The range of products guarantees you decisive advantages for your industrial applications. During planning, assembling and everyday operations. All variants are designed for class of protection IP 67.

The Weidmüller products take account of the latest market conditions and most recent international standards. And in so doing we offer you the option of unrestricted choice. What that means is that you get exactly the products you need for your application!

Features

- The only 8-core, on-site assembled, RJ45 connector for 10 Gigabit-Ethernet.
- Larger cable sheath diameter range (up to 10 mm) for variants V4, V1, and V14. For V5 up to 12 mm.
- Suitable for connecting stranded conductors in sizes AWG 27/7 to AWG 22/7; solid conductors in sizes AWG 27/1 to 22/1.
- Modules and couplers have a robust diecast zinc housing (Cat.6 / Cat.6A).
- Design results in enhanced vibration and shock resistance for couplers and RJ45 modules.
- Variable bulkhead housing fixing options for variants V1 and V4.
- Additional marking surfaces on plug and bulkhead housing, subsequent colour coding of IP 20 and IP 67 plug-in connectors.
- Dirt-resistant housing design with enhanced resistance to oils, greases, acids and alkalis.



Metal plug

			Housings	Variant 1	Bayonet	Variant 14 I	PushPull RJ	Variant 14 Push	Pull fibre-option	Variant 5 HDC
				= 1						30 -
				With KS	Without KS	With KS	Without KS	With KS	Without KS	Without KS
	Inserts			1962560000	1962550000	1011570000	1011560000	1058110000	1058100000	1962540000
The state of the s	RJ45 AWG 24 crimp		1962720000	1963150000	1963140000	1012070000	1012160000			1963110000
	RJ45 AWG 22 tool-free	TIA-A/-B/-P	1962730000	1963130000	1963120000	1012090000	1012170000			1963200000
200	LWL SC	MM	1962750000	1963270000	1963260000			Please orde	r separately	
The same		SM	1962760000	1963310000	1963300000			Please orde	er separately	
100		POF	1962770000	1963290000	1963280000			Please orde	er separately	
200	LWL LC	MM	1962780000	1963230000	1963220000			Please orde	er separately	
The state of the s		SM	1962790000	1963250000	1963240000			Please orde	er separately	
	Protective cap			19656	90000	10582	80000	10582	280000	1963690000

Plastic plug

			Housings	Variant 1	Bayonet	Variant 4	PushPull
					45		3
				With KS	Without KS	With KS	Without KS
	Inserts			1012460000	1012440000	1962530000	1962520000
The state of the s	RJ45 AWG 24 crimp		1962720000	1012560000	1012470000	1963190000	1963180000
	RJ45 AWG 22 tool-free	TIA-A/-B/-P	1962730000	1012570000	1012490000	1963170000	1963160000
20.	LWL SC	MM	1962750000	bitte einz.	bestellen	1963370000	1963360000
Marie .		SM	1962760000	bitte einz.	bestellen	1963410000	1963400000
1		POF	1962770000	bitte einz.	bestellen	1963390000	1963380000
200	LWL LC	MM	1962780000	bitte einz.	bestellen	1963330000	1963320000
The state of the s		SM	1962790000	bitte einz.	bestellen	1963350000	1963340000
	Protective cap			19656	90000	19638	90000













Metal flange

			Housings	Variant 1 Bayonet	Variant 14 I	PushPull RJ	Variant 14 Push	Pull fibre-optic	Variant 5 HDC
					Standardized flange	Central flange	Standardized flange	Central flange	
	Inserts			1963540000	1011540000	1047950000	Otarida dizoa ilarigo	Ochtral nango	1963530000
1	RJ45 coupling		1962840000	1963470000	1012310000	1058250000			1963510000
400	RJ45 module	TIA-A	1962850000	1963480000	1012320000	1058270000			1963460000
0.00		TIA-B	1963840000	Please order separately	Please order separately	Please order separately			Please order separate
1988		Profinet	1963830000	Please order separately	Please order separately	Please order separately			1963700000
	SC/SCRJ coupling	Multi Mode	1964430000	1964450000			1058120000	1062590000	
1/10		Single Mode	1962870000	1963440000			1058140000	1062600000	
-	LC Duplex coupling	Multi Mode	1964420000	1964440000			1058130000	1062610000	
1		Single Mode	1962880000	1963430000			1058150000	1062620000	
	USB coupling		1019570000	Please order separately	Please order separately	Please order separately			Please order separate
	Protective cap			1965700000	1058310000		1058310000	1058310000	1665750000

Plastic flange

i idolio ildii	,,,				
			Housings	Variant 1 Bayonet	Variant 4 PushPull
					mja
	Inserts			1016960000	1963520000
	RJ45 coupling		1962840000	1012370000	1963490000
400	RJ45 module	TIA-A	1962850000	1012380000	1963500000
10000		TIA-B	1963840000	Please order separately	1963730000
1150		Profinet	1963830000	Please order separately	Please order separately
	SC/SCRJ coupling	Multi Mode	1964430000	Please order separately	1964470000
1 6		Single Mode	1962870000	Please order separately	1963420000
	LC Duplex coupling	Multi Mode	1964420000	Please order separately	1964460000
-		Single Mode	1962880000	Please order separately	1963450000
	USB coupling		1019570000	Please order separately	Please order separately
	Protective cap			1965700000	1963900000







V1 with SC multi-mode **1964450000**



V4 with LC multi-mode **1964460000**



V14 with RJ45 module **1012320000**



Junction boxes

	Flange version	Variant 1 Bayonet metal	Variant 4 PushPull/plastic	Variant 5 HDC
		10	m js	
	Housings			•
i di mana	1 port – straight version	1966300000	1966220000	1966260000
	2 ports – right version	1966310000	1966230000	1966270000
	2 ports – left version	1966320000	1966240000	1966280000
	2 ports – straight version	1966330000	1966250000	1966290000
Other versions avail	able on request.			



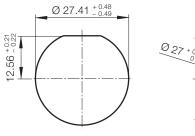


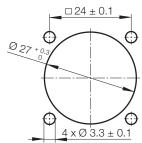




Housing variant: 1 metal

• IP 67





Housing variant: 1 metal

Application:

The Weidmüller variant 1 housing are made up of a bottom part (flange) and a top part (plug housing). When plugged together, they achieve IP67 protection.

Variation:

- 1962550000: plug-in housing
- 1962560000: plug-in housing with bending protection
- 1965690000: protective cap for plug-in housing (PA)
- 1963540000: bulkhead housing
- 1965700000: protective cap for bulkhead housing(PA)

The Weidmüller range of tools includes a selection of sheet metal punches for creating the cut-outs in switchgear cabinet doors. We also offer a comprehensive range of markers for connectors and flanges. See also the "Accessories" chapter.



Ordering data

Flange-mounted hou	sing	Ту
		IE-
Plug housing		
		IE-
	With kink prevention	IE-

Туре	Order No.
IE-BH-V01M	1963540000
IE-PH-V01M	1962550000
IE-PH-V01M-BP	1962560000

Accessories

Colour coding
yellow
Blue
Orange
green
grey
white
Dust cap
Flange-mounted housing, protective cap
Plug housing protective cap
Note

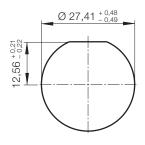
Туре	Order No.
IE-CR-IP67-WS20-YE	1963030000
IE-CR-IP67-WS20-BU	1963020000
IE-CR-IP67-WS20-OG	1963010000
IE-CR-IP67-WS20-GN	1963040000
IE-CR-IP67-WS20-GY	1963000000
IE-CR-IP67-WS20-WH	1962990000
IE-BP-V01P	1965700000
IE-PP-V01P	1965690000

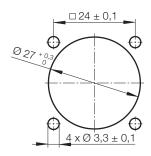
Technical data

Protection class	IP 67
Housing material	Diecast zinc
Variant	Variant 1 to IEC 61076-3-106
Cladding diameter	5 mm - 10 mm
Configuration	Plug housing with labelling/marking holder: 9*11 mm; suitable for holding RJ45 and fibre-optic inserts
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Housing variant: 1 plastic

• IP 67





Housing variant: 1 plastic

Application:

The Weidmüller variant 1 housing are made up of a bottom part (flange) and a top part (plug housing). When plugged together, they achieve IP67 protection.

Variation:

- 1012440000: plug-in housing
- 1012460000: plug-in housing with bending protection
- 1965690000: protective cap for plug-in housing (PA)
- 1016960000: bulkhead housing
- 1965700000: protective cap for bulkhead housing(PA)

The Weidmüller range of tools includes a selection of sheet metal punches for creating the cut-outs in switchgear cabinet doors. We also offer a comprehensive range of markers for connectors and flanges. See also the "Accessories" chapter.



Ordering data

Flange-mounte	d housing
Plug housing	
	With kink prevention

Туре	Order No.
IE-BH-V01P	1016960000
IE-PH-V01P	1012440000
IE-PH-V01P-BP	1012460000

Accessories

Colour coding	
yello	
Blu	ıe
Orang	je
gree	n
gre	ЭУ
whit	te
Dust cap	
Flange-mounted housing, protective ca	р
Plug housing protective ca	р

Туре	Order No.
IE-CR-IP67-WS20-YE	1963030000
IE-CR-IP67-WS20-BU	1963020000
IE-CR-IP67-WS20-OG	1963010000
IE-CR-IP67-WS20-GN	1963040000
IE-CR-IP67-WS20-GY	1963000000
IE-CR-IP67-WS20-WH	1962990000
IE-BP-V01P	1965700000
IE-PP-V01P	1965690000
E B. 10.11	

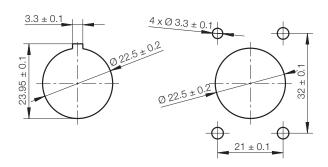
Technical data

Note

Protection class	IP 67
Housing material	PA UL 94 V0
Variant	Variant 1 to IEC 61076-3-106
Cladding diameter	5 mm - 10 mm
Configuration	Connector housing with label retainer 9*11 mm;
	suitable for holding RJ45 and FO inserts
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Housing variant: 4 plastic

• IP 67



CR-IP67 PH-V04P PH-V04P-BP

Housing variant: 4 plastic

Application:

The Weidmüller variant 4 housing are made up of a bottom part (flange) and a top part (plug housing). When plugged together, they achieve IP67 protection.

Variation:

- 1962520000: plug-in housing
- 1962530000: plug-in housing with bending protection
- 1963890000: protective cap for plug-in housing(PA)
- 1963520000: bulkhead housing
- 1963900000: protective cap for bulkhead housing(PA)

The Weidmüller range of tools includes a selection of sheet metal punches for creating the cut-outs in switchgear cabinet doors. We also offer a comprehensive range of markers for connectors and flanges. See also the "Accessories" chapter.

Ordering data

Flange-mounted ho	using
Plug housing	
	With kink prevention

Туре	Order No.
IE-BH-V04P	1963520000
IE-PH-V04P	1962520000
IE-PH-V04P-BP	1962530000

Accessories

Colour coding
yellow
Blue
Orange
green
grey
white
Dust cap
Flange-mounted housing, protective cap
Plug housing protective cap

Туре	Order No.
IE-CR-IP67-WS20-YE	1963030000
IE-CR-IP67-WS20-BU	1963020000
IE-CR-IP67-WS20-OG	1963010000
IE-CR-IP67-WS20-GN	1963040000
IE-CR-IP67-WS20-GY	1963000000
IE-CR-IP67-WS20-WH	1962990000
IE-BP-V04P	1963900000
IE-PP-V04P	1963890000

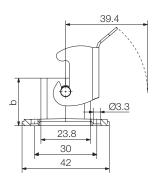
Technical data

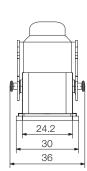
Note

Protection class	IP 67
Housing material	PA UL 94 V0
Variant	Variant 4 to IEC 61076-3-106
Cladding diameter	5 mm - 10 mm
Configuration	Connector housing with label retainer 9*11 mm;
	suitable for holding RJ45 and FO inserts
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Housing variant: 5 metal

• IP 67





PH-V05M BH-V05M

Housing variant: 5 metal

Application:

The Weidmüller variant 5 housing are made up of a bottom part (flange) and a top part (plug housing). When plugged together, they achieve IP67 protection.

Variation:

- 1962540000: plug-in housing
- 1963690000: protective cap for plug-in housing
- 1963530000: bulkhead housing
- 1665750000: protective cap for bulkhead housing

The Weidmüller range of tools includes a selection of sheet metal punches for creating the cut-outs in switchgear cabinet doors. We also offer a comprehensive range of markers for connectors and flanges. See also the "Accessories" chapter.

Ordering data

Flang	je-mou	nted ho	ousing	
Plug	housing	9		

Order No.
1963530000
1962540000

Accessories

Dust cap
Flange-mounted housing, protective cap
Plug housing protective cap
Note

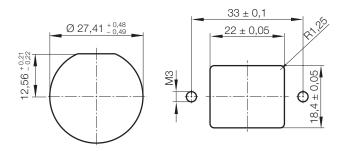
Туре	Order No.
IE-BP-V05M	1968930000
IE-PP-V05M	1968920000

Technical data

Protection class	IP 67
Housing material	Diecast aluminium
Variant	Variant 5 to IEC 61076-3-106
Cladding diameter	5 mm - 12 mm
Configuration	Suitable for fitting with RJ45 inserts
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Housing variant: 14 metal

• IP 67





Housing variant: 14 metal

Application:

The Weidmüller variant-14 housings are made up of a bottom part (flange) and a top part (plug housing). When plugged together, they achieve IP67 protection.

The differences:

- 1011560000: plug housing with RJ45 adapter
- 1011570000: plug housing with RJ45 adapter and kink prevention
- 1058100000: plug housing with fibre-optic adapter
- 1058110000: plug housing with fibre-optic adapter and kink prevention
- 1058280000: plug housing: protective cap (PA)
- 1011540000: standardized flange with RJ45 adapter
- 1047940000: device flange
- 1047950000: central locking flange with RJ45 adapter
- 1058310000: flange housing: protective cap (PA)

The Weidmüller range of tools includes a selection of sheet metal punches for creating the cut-outs in electrical cabinet doors. We also offer a comprehensive range of markers for connectors and flanges. See also the "Accessories" chapter.

Ordering data

Flange-mounted housing Standardized flange with RJ45 adapter Central locking flange with RJ45 adapter Device flange Plug housing

With RJ45 adapter With RJ45 adapter and kink prevention With fibre-optic adapter

With fibre-optic adapter and kink prevention

Туре	Order No.
IE-BHS-V14M-RJA	1011540000
IE-BHC-V14M-RJA	1047950000
IE-BHD-V14M	1047940000
IE-PH-V14M-RJ	1011560000
IE-PH-V14M-RJ-BP	1011570000
IE-PH-V14M-FO	1058100000
IE-PH-V14M-FO-BP	1058110000
on request	

Accessories

Colour coding
yellow
Blue
Orange
green
grey
white
Dust cap
Flange-mounted housing protective can

Plug housing protective cap

Note

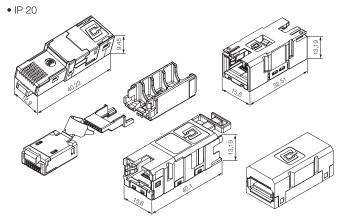
Туре	Order No.
IE-CR-IP67-WS20-YE	1963030000
IE-CR-IP67-WS20-BU	1963020000
IE-CR-IP67-WS20-OG	1963010000
IE-CR-IP67-WS20-GN	1963040000
IE-CR-IP67-WS20-GY	1963000000
IE-CR-IP67-WS20-WH	1962990000
IE-BP-V14P	1058310000
IE-PP-V14P	1058280000

Technical data

Protection class	IP 67
Housing material	Diecast zinc
Variant	Variant14 to IEC 61076-3-117
Cladding diameter	5mm - 10mm
Configuration	Connector housing with label retainer 9*11 mm;
	suitable for holding RJ45 and FO inserts
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

RJ45 inserts

• Cat.6A





Application:

The inserts are designed for use in Weidmüller housings – regardless of whether variant 1, variant 4 or variant 5.

RJ45 tool-free connector insert

- Die-cast zinc housing, black
- Litz conductor: AWG 26/7 to AWG 22/7
- Solid conductor: AWG 26/1 to AWG 22/1
- Sheath diameter: 5.5 to 8.5 mm
- Wire insulation diameter: up to 1.6 mm
- Colour coding on connector in TIA A/B/ProfiNet

RJ45 crimp connector insert:

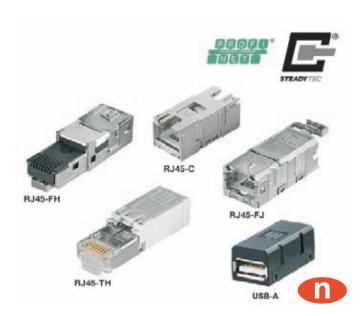
- Brass housing
- Litz conductor: AWG 27/7 to AWG 24/7Solid conductor: AWG 27/1 to AWG 24/1
- Sheath diameter: 5 to 7.3 mm
- Wire insulation diameter: 0.85 to 1.05 mm

RJ45 flange insert:

- Die-cast zinc housing
- Version for TIA A/B ProfiNet
- Litz conductor: AWG 26/7 to AWG 22/7
- Solid conductor: AWG 26/1 to AWG 22/1
- Sheath diameter: 5.5 to 10 mm
- Wire insulation diameter: up to 1.6 mm

USB flange insert

- Housing made from thermoplastic (PBT)
- Type A acc. to IEC 61076-3-107
- USB 2.0 compliant
- Rated for more than 1500 plugging cycles



Ordering data

Flange insert
USB coupling, type A
RJ45 coupling, Type C
RJ45 AWG 22, EIA / TIA 586 A
RJ45 AWG 22, EIA / TIA 586 B
RJ45 AWG 22, PROFINET

Plug insert	
	RJ45 tool-free
	RJ45 crimp

Туре	Order No.
IE-BI-USB-A	1019570000
IE-BI-RJ45-C	1962840000
IE-BI-RJ45-FJ-A	1962850000
iE-BI-RJ45-FJ-B	1963840000
IE-BI-RJ45-FJ-P	1963830000
IE-PI-RJ45-FH	1962730000
IE-PI-RJ45-TH	1962720000

Accessories

tools	
	Pressing tool
Note	

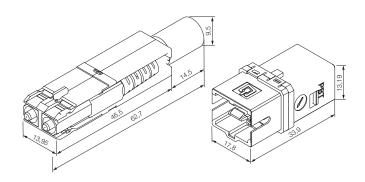
Туре	Order No.
TT 8 RS MP 8	9202800000
See also the "Accessories" chapt	er.

Technical data

Category	Cat. 6A / Class E _A (IEC 11801 PDAM Am 1.2
	2007)
Protection class	IP 67 with housing
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Shielding	360° all-round enclosure
Configuration	Connector and flange insert for variant 1, 4, 5
	and 14 housings

SC inserts

• IP 20





SC inserts

Application:

The SC inserts are designed for use in Weidmüller housings - regardless of whether variant1, variant 4 or variant 14.

You will find FO fabrication tools in the "Accessories" chapter.

Ordering data

Flange insert

SCRJ on 2 SC, single-mode

SCRJ on 2 SC, multi-mode

Plug insert

2 SC, single-mode 2 SC, multi-mode 2 SC, POF

Туре	Order No.
IE-BI-SCRJ2SC-SM-C	1962870000
IE-BI-SCRJ2SC-MM-C	1964430000
IE-PI-2SC-SM	1962760000
IE-PI-2SC-MM	1962750000
IE-PI-2SC-POF	1962770000

Accessories

tools	
	Crimping pliers GOF
	Crimping pliers POF
	Crimping pliers GOF PROFINET
	Fibre-optic tool case
Note	

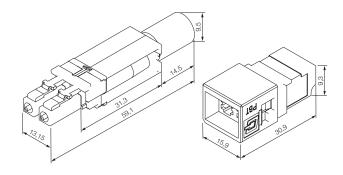
Туре	Order No.
IE-CT-SC-GOF	9205320000
IE-CT-SC-POF	9205340000
IE-CT-SC-GOF-P	9205350000
IE-CTC-SCST-GOF	1032030000

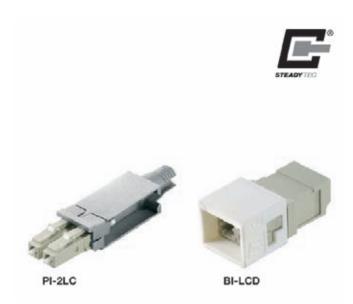
Technical data

Protection class	IP 67 with housing
Housing material	Diecast zinc (plug), PA (flange)
Plugging cycles	1000 plugging cycles for plugs to IEC 61754
Configuration	Connector and flange insert for variant 1, 4 and
	14 housings
Operating temperature, min. / max.	-40 °C / 70 °C

LC inserts

• IP 20





LC inserts

Application:

The LC inserts are designed for use in Weidmüller housings - both variant 1, variant 4 or variant 14.

You will find FO fabrication tools in the "Accessories" chapter.

Ordering data

Orabining a	ata
Flange insert	
	LC duplex, single-mode
	LC duplex, multi-mode
Plug insert	
	2 LC, single-mode
	2 LC, multi-mode

Туре	Order No.
IE-BI-LCD-SM-C	1962880000
IE-BI-LCD-MM-C	1964420000
IE-PI-2LC-SM	1962790000
IE-PI-2LC-MM	1962780000
Other versions on request	

Accessories

tools	
	Crimping pliers GOF
	Fibre-optic tool case
Note	

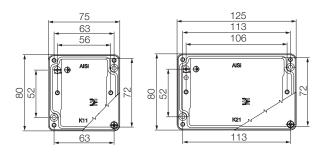
Туре	Order No.
IE-CT-LC-GOF	9205330000
IE-CTC-SCST-GOF	1032030000

Technical data

	10.07 111.1
Protection class	IP 67 with housing
Housing material	PBT diecast zinc
Plugging cycles	1000 plugging cycles for plugs to IEC 61754
Configuration	Connector and flange insert for variant 1, 4 and
	14 housings
Operating temperature, min. / max.	-40 °C / 70 °C

Outlet boxes IP 67

- IP 67
- for floor or wall mounting





IP 67 junction boxes

Application:

The Weidmüller IP 67 junction boxes should be your first choice when you need connection options for your networks in industrial environments.

Variations:

- variant 4 with M16 plastic cable glands
- \bullet variant 1 and variant 5 with nickel-plated brass cable glands in M16
- Variant 14 on request

Ordering data

Variation 1	
	1 port, straight
	2 ports, left
	2 ports, right
	2 ports, straight
Variant 4	
Variation 5	1 port, straight 2 ports, left 2 ports, right 2 ports, straight
variation 5	1 port, straight 2 ports, left 2 ports, right 2 ports, straight

Туре	Order No.
IE-OM-V01M-K11-1S	1966300000
IE-OM-V01M-K21-2L	1966320000
IE-OM-V01M-K21-2R	1966310000
IE-OM-V01M-K21-2S	1966330000
IE-OM-V04P-K11-1S	1966220000
IE-OM-V04P-K21-2L	1966240000
IE-OM-V04P-K21-2R	1966230000
IE-OM-V04P-K21-2S	1966250000
IE-OM-V05M-K11-1S	1966260000
IE-OM-V05M-K21-2L	1966280000
IE-OM-V05M-K21-2R	1966270000
IE-OM-V05M-K21-2S	1966290000
Additional variants on request RJ45 modules can be ordered se	eparately

Accessories

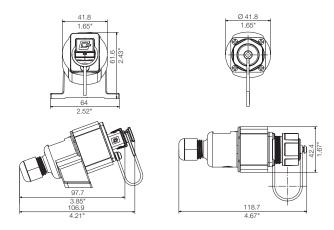
Flange insert	
	AWG 22, EIA / TIA 586 A
	AWG 22, EIA / TIA 586 B
	AWG 22, PROFINET
Note	

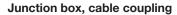
Туре	Order No.
IE-BI-RJ45-FJ-A	1962850000
iE-BI-RJ45-FJ-B	1963840000
IE-BI-RJ45-FJ-P	1963830000

Technical data

Protection class	IP 67
Housing material	AI - Si 12
Colour	grey
Installation	Wall or floor mounting
Configuration	Rugged powder coating, in RAL 7001. Two
	housing sizes. One or two ports in variants V1,
	V4 and V5. Straight, left and right cable exit. Pro-
	tective caps included in delivery
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Junction box, cable coupling





Application: Weidmüller's junction boxes and cable couplings should be your first choice when you need connection options for your networks in industrial environments.

The differences:

- 1045780000: wall-mounted socket, variant 4
- 1045960000: coupling, variant 4
- 1061830000: wall-mounted socket, variant 1
- 1061820000: coupling, variant 1



Ordering data

Oracining data	
Variation 1	
	Junction box
	Cable coupling
Variant 4	
	Junction box
	Cable coupling

ype	Order No.
E-OP-V01P-1S	1061830000
E-CC-V01P	1061820000
E-OP-V04P-1S	1045780000
E-CC-V04P	1045960000
RJ45 modules can be ordered separately	

Accessories

Flange insert	
	AWG 22, EIA / TIA 586 A
	AWG 22, EIA / TIA 586 B
	AWG 22, PROFINET
Note	

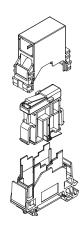
Туре	Order No.
IE-BI-RJ45-FJ-A	1962850000
iE-BI-RJ45-FJ-B	1963840000
IE-BI-RJ45-FJ-P	1963830000

Technical data

Protection class	IP 67
Housing material	PA UL 94 V0
Colour	black
Installation	Wall or floor mounting, for exposed connections
Operating temperature, min. / max.	-40 °C / 70 °C
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Mounting rail outlet RJ45

- Cat.6A
- IP 20
- TS35



Mounting rail outlet RJ45

Application:

Weidmüller mounting rail outlets should be your first choice in the switchgear cabinet when you need to connect

- installation cables,
- RJ45 cables,

Variations:

- 8946920000: RJ45 coupling
- 8946930000: Outlet RJ45 A-coded
- 8946940000: Outlet RJ45 B-coded
- 8946950000: Outlet RJ45 ProfiNet-coded



Ordering data

RJ45	
	RJ45 coupling
	Outlet RJ45 A-coded
	Outlet RJ45 B-coded
	Outlet RJ45 PROFINET-coded

Туре	Order No.
IE-TO-RJ45-C	8946920000
IE-TO-RJ45-FJ-A	8946930000
IE-TO-RJ45-FJ-B	8946940000
IE-TO-RJ45-FJ-P	8946950000

Accessories

markers	
	9*11 mm, white
Labels	
	9*11 mm, white
	9*11 mm, blue
	9*11 mm, yellow
	9*11 mm, grey
	9*11 mm, green
	9*11 mm, orange
Note	

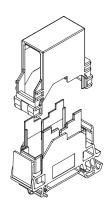
	Order No.
MC NEUTRAL	1857440000
A5 9/11 WS	1964070000
A5 9/11 BL	1964100000
A5 9/11 GE	1964110000
A5 9/11 GR	1964080000
A5 9/11 GN	1964120000
A5 9/11 OR	1964090000

Technical data

Category	Cat. 6A / Class E _A (IEC 11801 PDAM Am 1.2
	2007)
Protection class	IP 20
Housing material	PA UL94 VO
Colour	light grey (RAL 7035)
Installation	for terminal rail TS35
Configuration	Switchable voltage connection from module /
	coupling to mounting rail
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Operating temperature, min. / max.	-25 °C / 70 °C

Mounting rail outlet FO

- IP 20
- TS35



Mounting rail outlet FO

Application:

Weidmüller mounting rail outlets should be your first choice in the switchgear cabinet when you need to connect

• fibre optic cable with SC-Duplex-, SCRJ- and LC-duplex connectors.

Variations:

- 8946970000: SC-Duplex Multi-mode
 8946980000: SC-Duplex Single-mode
 8946990000: SCRJ Multi-mode
 8947000000: SCRJ Single-mode
- 8947010000: LC-Duplex Multi-mode • 8947020000: LC-Duplex Single-mode



Ordering data

Fibre-optic	
	LCD multi-mode
	LCD single-mode
	SCD multi-mode
	SCD single-mode
	SCRJ multi-mode
	SCRJ single-mode

Туре	Order No.
IE-TO-LCD-MM	8947010000
IE-TO-LCD-SM	8947020000
IE-TO-SCD-MM	8946970000
IE-TO-SCD-SM	8946980000
IE-TO-SCRJ-MM	8946990000
IE-TO-SCRJ-SM	8947000000

Accessories

markers	
	9*11 mm, white
Labels	
	9*11 mm, white
	9*11 mm, blue
	9*11 mm, yellow
	9*11 mm, grey
	9*11 mm, green
	9*11 mm, orange
Note	

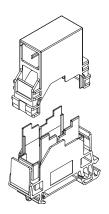
,	Order No.
9/11K MC NEUTRAL	1857440000
/IT DIN A5 9/11 WS	1964070000
/IT DIN A5 9/11 BL	1964100000
/IT DIN A5 9/11 GE	1964110000
/IT DIN A5 9/11 GR	1964080000
/IT DIN A5 9/11 GN	1964120000
/IT DIN A5 9/11 OR	1964090000

Technical data

Protection class	IP 20
Housing material	PA UL94 VO
Colour	light grey (RAL 7035)
Installation	for terminal rail TS35
Plugging cycles	1000 plugging cycles for plugs to IEC 61754
Operating temperature, min. / max.	-25 °C / 70 °C

Mounting rail outlet USB

- IP 20
- TS35



Mounting rail outlet USB

Application:

Weidmüller mounting rail outlets should be your first choice in the switchgear cabinet when you need to connect

• USB-A cable.





Ordering data

USB	
	TO-USB

Туре	Order No.
IE-TO-USB	8946960000

Accessories

markers	
	9*11 mm, white
Labels	
	9*11 mm, white
	9*11 mm, blue
	9*11 mm, yellow
	9*11 mm, grey
	9*11 mm, green
	9*11 mm, orange
Note	

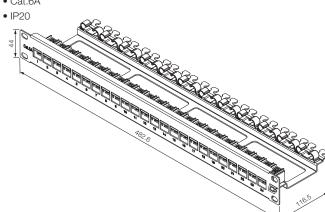
Э	Order No.
9/11K MC NEUTRAL	1857440000
MT DIN A5 9/11 WS	1964070000
MT DIN A5 9/11 BL	1964100000
MT DIN A5 9/11 GE	1964110000
MT DIN A5 9/11 GR	1964080000
MT DIN A5 9/11 GN	1964120000
MT DIN A5 9/11 OR	1964090000
WI DIN AS 9/11 OIL	1904090000

Technical data

Protection class	IP 20
Housing material	PA UL94 VO
Colour	light grey (RAL 7035)
Installation	for terminal rail TS35
Operating temperature, min. / max.	-25 °C / 70 °C

19" patch panel

• Cat.6A



19" patch panel

Application:

Weidmüller's 19" patch panel can help you implement a Category 6A (acc. to IEC 11801) installation of your Industrial Ethernet – all the way from the building distributor to the electrical cabinet.

The differences:

- 1049270000: 19" panel with 24 RJ45 adapters (without inserts)
- 1049910000: 19" panel with 24 RJ45 modules EIA / TIA 586 A
- 1049920000: 19" panel with 24 RJ45 modules EIA / TIA 586 B
- 1049930000: 19" panel with 24 RJ45 couplings



Ordering data

19" patch panel

With 24 RJ45 adapters With 24 RJ45 modules A With 24 RJ45 modules B With 24 RJ45 couplings

Туре	Order No.
IE-PPA19-24P	1049270000
IE-PPA19-24P-RJ45-FJ-A	1049910000
IE-PPA19-24P-RJ45-FJ-B	1049920000
IE-PPA19-24P-RJ45-C	1049930000

Accessories

Flange insert

AWG 22, EIA / TIA 586 A

AWG 22, EIA / TIA 586 B

AWG 22, PROFINET

USB coupling, type A

Note

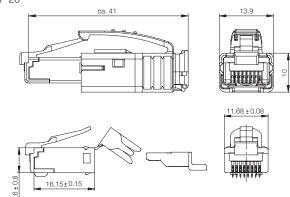
Туре	Order No.
IE-BI-RJ45-FJ-A	1962850000
iE-BI-RJ45-FJ-B	1963840000
IE-BI-RJ45-FJ-P	1963830000
IE-BI-USB-A	1019570000

Technical data

Category	Cat. 6A / Class E _A (IEC 11801 PDAM Am 1.2
	2007)
Protection class	IP 20
Housing material	Powder-coated steel sheet
Colour	light grey (RAL 7035)
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Operating temperature, min. / max.	-40 °C / 70 °C

RJ45 crimp plug

- Cat.6A
- IP 20



RJ45 crimp plug

Application:

Weidmüller's AWG24 connector - for assembling your installation and connection cable.

Variations:

- \bullet 1963590000: a complete connector, including black kink protection sleeve
- 1963580000: connector for combination with the coloured kink-prevention sleeves



Ordering data

Plug	
	With kink-prevention sleeve, black
	Without kink-prevention sleeve

Туре	Order No.
IE-PS-RJ45-TH-BK	1963590000
IE-PM-RJ45-TH	1963580000

Accessories

Kink-prevention sleeve	
	yellow
	Blue
	Orange
	green
	grey
	white
	black
tools	
	Crimping tool
Note	

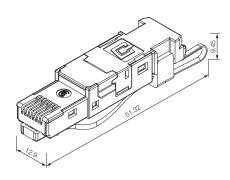
Туре	Order No.
IE-PH-RJ45-TH-YE	1962480000
IE-PH-RJ45-TH-BU	1962470000
IE-PH-RJ45-TH-OG	1962450000
IE-PH-RJ45-TH-GN	1962490000
IE-PH-RJ45-TH-GY	1962440000
IE-PH-RJ45-TH-WH	1962430000
IE-PH-RJ45-TH-BK	1962500000
TT 8 RS MP 8	9202800000

Technical data

Category	Cat. 6A / Class E _A (IEC 11801 PDAM Am 1.2
	2007)
Protection class	IP 20
Housing material	Brass, PC UL94 V0
Stranded cable diameter, Flexible, min.	0.46 mm / 0.61 mm
/ max.	
Cable strand diameter, flexible, min. / max.	AWG 27 / AWG 24
Solid wire diameter, min. / max.	0.36 mm / 0.51 mm
Solid wire diameter, min. / max.	AWG 27 / AWG 24
Wire insulation diameter, max.	1.05 mm
Cladding diameter, min. / max.	5 mm / 7.3 mm
Shielding	360° all-round enclosure
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Configuration	Connects piercing contacts and shielded con-
	nections in one step, retro-fit for bending protections
	tion sleeves, Multi-port compatible
Operating temperature, min. / max.	-40 °C / 70 °C

RJ45 plug field installation

- Cat.6A
- IP 20

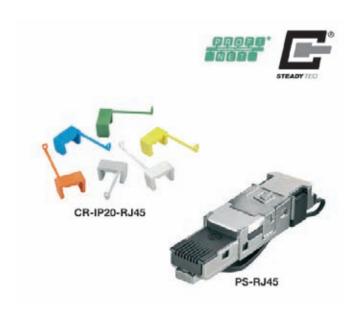




Application:

Weidmüller's on-site user-assembled AWG22 connector is especially suited for assembling your installation cables, no crimping tool is required.

You can open and close this connector at least five times - without any loss of function.



Ordering data

	_
Plug	
	EIA / TIA 568 A/B/PROFINET

Туре	Order No.
IE-PS-RJ45-FH-BK	1963600000

Accessories

Strain relief	
	yellow
	Blue
	Orange
	grey
	green
	white
Note	

Туре	Order No.
IE-CR-IP20-RJ45-FH-YE	1963090000
IE-CR-IP20-RJ45-FH-BU	1963080000
IE-CR-IP20-RJ45-FH-OG	1963070000
IE-CR-IP20-RJ45-FH-GY	1963060000
IE-CR-IP20-RJ45-FH-GN	1963100000
IE-CR-IP20-RJ45-FH-WH	1963050000

Technical data

Category	Cat. 6A / Class E, (IEC 11801 PDAM Am 1.2
Category	2007)
	· · · · · · · · · · · · · · · · · · ·
Protection class	IP 20
Housing material	Diecast zinc
Colour	black
Stranded cable diameter, Flexible, min.	0.48 mm / 0.76 mm
/ max.	
Cable strand diameter, flexible, min. / max.	AWG 26 / AWG 22
Solid wire diameter, min. / max.	0.4 mm / 0.64 mm
Solid wire diameter, min. / max.	AWG 26 / AWG 22
Wire insulation diameter, max.	1.6 mm
Cladding diameter, min. / max.	5.5 mm / 8.5 mm
Shielding	360° all-round enclosure
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Configuration	Eight-wire user-assembled RJ45 connector with
	colour coding on connector, TIA A/B/PROFINE
	Multi-port compatible
Operating temperature, min. / max.	-40 °C / 70 °C

FO connector

- IP 20
- POF, multimode or singlemode



FO connector

Application:

Weidmüller's FO connectors are your best choice when assembling your own fibre-optic cables.

Connection brackets for SCRJ:

- IE-PB-SCRJ-MM 1962890000 beige
- IE-PB-SCRJ-SM 1965850000 blue
- IE-PB-SCRJ-POF 1965840000 yellow

Connection brackets for SCD:

- IE-PB-SCD-MM 1962900000 beige
- IE-PB-SCD-SM 1965860000 blue
- IE-PB-SCD-POF 1967690000 yellow

You will find FO fabrication tools in the "Accessories" chapter. $\label{eq:continuous}$

Ordering data

Plug LC-duplex	
	Single-mode
	Multimode
Plug SC	
	Single-mode
	Multimode
	POF
Plug SC-duplex	
	Single-mode
	Multimode
Plug SCRJ	
	Single-mode
	Multimode
	POF

Туре	Order No.
IE-PS-LCD-SM	1962980000
IE-PS-LCD-MM	1962970000
IE-PS-SC-SM	1962920000
IE-PS-SC-MM	1962910000
IE-PS-SC-POF	1962930000
IE-PS-SCD-SM	1964410000
IE-PS-SCD-MM	1964480000
IE-PS-SCRJ-SM	1962950000
IE-PS-SCRJ-MM	1962940000
IE-PS-SCRJ-POF	1962960000

Accessories

Fibre-optic plug clip		
SC duplex, multi-mode, beige		
SCRJ, multi-mode, beige		
Note		

Туре	Order No.
IE-PB-SCD-MM	1962900000
IE-PB-SCRJ-MM	1962890000

Technical data

Protection class	IP 20
Plugging cycles	1000 plugging cycles for plugs to IEC 61754
Configuration	Retaining frame for integrating Simplex con-
	nectors
Operating temperature, min, / max.	-40 °C / 70 °C

Overview of Weidmüller IE-LINE RJ45 and M12

For use in switching cabinets and on machines and plants in harsh industrial environments.

Terminal rail outlets



for connections in switching cabinets or junction boxes

- in Cat.6
- IP 20

Adapter and coupler



for linking and connecting M12 cables

• M12, d-coded

Junction box, coupler and plug



for IP 67 connections in the field

- in Cat.6
- IP 67

PCB connecting elements



for your devices in the field of PROFINET

• M12, d-coded

Built-in flange



for switching cabinet interfaces in IP 67

- in Cat.6
- IP 67
- various models

Plug-in connector



With tension-clamp or screw connection

- M12 D-coded
- Stainless steel or brass version

Cable splitter module



for adapting an 8-core installation cable to two 4-core services

- in Cat.5
- IP 20

Connecting module

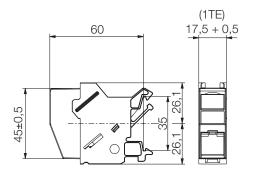


for connecting or repairing installation lines

- in Cat.7
- IP 20

Terminal rail outlets

- Cat.6
- IP 20
- TS35



Terminal rail outlets

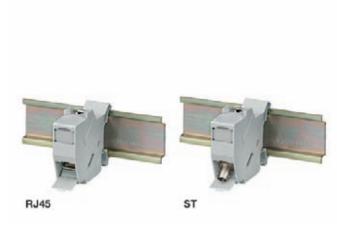
Application:

Weidmüller mounting rail outlets should be your first choice in the switchgear cabinet when you need to connect

- installation cables,
- RJ45 cables,
- Fibre optic cable with ST connectors

The differences:

- 8808360000: RJ45 module insert for connecting conductor from AWG26 to AWG22; colour-coded acc. to EIA/TIA 568 A
- 8891980000: RJ45 module insert for connecting conductor from AWG26 to AWG22, colour-coded acc. to EIA/TIA 568 B
- 8879050000: coupling insert RJ45 to RJ45
- \bullet 8808340000: coupling insert ST to ST



Ordering data

with Coupling	
	RJ45 - RJ45
	ST - ST
with module i	nsert
	RJ45 module EIA/TIA 568 A
	RJ45 module EIA/TIA 568 B

Туре	Order No.
IE-XM-RJ45/RJ45	8879050000
IE-XM-ST/ST	8808340000
IE-XM-RJ45/IDC	8808360000
IE-XM-RJ45/IDC-B	8891980000

Accessories

	Outlet marker
Note	

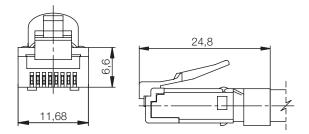
8813500000
001000000

Technical data

Category	Cat.6 (IEC 11801)
Protection class	IP 20
Housing material	PA 66; UL 94: V0
Colour	light grey (RAL 7035)
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Installation	for terminal rail TS35

RJ45 connecting plug

- Cat.6
- with bending protection





RJ45 connecting plug

Application:

Weidmüller's RJ45 connectors help you to assemble your cable, whether they are from solid or flexible conductors.

Variations:

- 8813110000: connector with bending protection sleeve; Cable clamping range from 5.5 to 6.2 mm
- 8881320000: connector with kink-prevention sleeve; Cable clamping range from 6.2 to 7.1 mm

Ordering data

Plug	
	With kink prevention; 5,5 - 6,2 mm
	With kink prevention; 6,2 - 7,1 mm

Туре	Order No.
IE-P63	8813110000
IE-P70	8813120000

Accessories

tools	
	Crimping tool
Note	

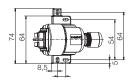
Туре	Order No.
TT 8 RS MP 8	9202800000
See also the "Accessories" chapt	er.

Technical data

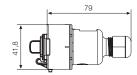
Category	Cat.6 (IEC 11801)
Protection class	IP 20
bending protection / Locking lever catch	Yes
Stranded cable diameter, Flexible, min.	0.46 mm / 0.61 mm
/ max.	
Cable strand diameter, flexible, min. / max.	AWG 27/7 / AWG 24/7
Solid wire diameter, min. / max.	0.36 mm / 0.51 mm
Solid wire diameter, min. / max.	AWG 27/1 / AWG 24/1
Plug to IEC 60603-7-5 (standard)	Yes, tested to 250 MHz
Bending protection sleeve material	Polyamide PA6, UL94-VO
Material of insulating parts	PC UL 94 V-0
Contact material	Phosphorus bronze
Contact surface	gold-plated
Shielding material	0.5 mm brass, 2 µm nickel
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Cable pull-out force, min.	89 N
Insertion force, max.	20 N
Operating temperature, min. / max.	-40 °C / 70 °C
Contact resistance, max.	20 mΩ
Insulation resistance, min.	500 ΜΩ
Dielectric strength, contact - contact	1000 V DC
Dielectric strength, contact - shield	1500 V DC
Operating current at 50°C	1 A

Junction box, cable coupler, plug V 06

- Cat.6
- IP 67







Junction box, cable coupling, V 06 plug

Application:

Use connectors with IP 67 protection to connect your industrial Ethernet lines in industrial environments.

The differences:

- 8808370000: junction box for fixed mounting; IDC connection for conductors from AWG26 to AWG 22
- 8813090000: cable coupling for exposed connections; IDC connection for conductors from AWG 26 to AWG 22
- 8808380000: crimp-version plug set for connecting to junction box or cable coupling; for flexible conductors from AWG 27/7 to AWG 24/7



Ordering data

Description of article	
	Junction box
	Cable coupling
	Plug

Туре	Order No.
IE-S-IP67	8808370000
IE-C-IP67	8813090000
IE-P-IP67	8808380000

Accessories

tools	
	Crimping tool
Note	

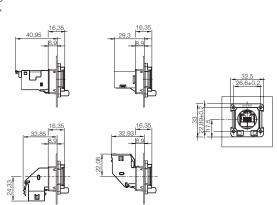
Туре	Order No.
TT 8 RS MP 8	9202800000
See also the "Accessories" chapt	er.

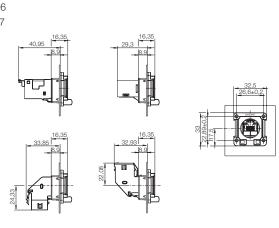
Technical data

Category	Cat.6 (IEC 11801)
Protection class	IP 67
Shielding	360° shield contact
Housing material	PA 66; UL 94: V-0
Colour	light grey (RAL 7035)
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7
Installation	Wall or floor mounting, for exposed connections
Wiring	Colour-coded pin assignment to
	EIA/TIA T568 A.
Operating temperature, min. / max.	-40 °C / 70 °C

Built-in flange V 06

- Cat.6
- IP 67





V 06 mounting flange

Application:

Weidmüller's mounting flanges are your best choice when you need IP 67 connections at the switching cabinet or distribution board.

TVariations:

- \bullet 8808440000: RJ45 module insert for connection of conductors ranging from AWG 26 to AWG 22; Colour coding acc. to EIA/TIA 568 $\mbox{\ensuremath{\mathsf{A}}}$
- 8808450000: coupling insert for RJ45 to RJ45, straight version
- 8829450000: coupling insert for RJ45 to RJ45, downwards angled version
- 8829440000: coupling insert for RJ45 to RJ45, upwards angled version
- 8892670000: coupling insert for USB to USB



Ordering data

Coupling flange	
	straight
	Angled, downwards
	Angled, upwards
RJ45 module flange	
	straight
USB flange	

Туре	Order No.
IE-X1M-FJ45/RJ45-IP67	8808450000
IE-XM-6D-RJ45/RJ45-IP67	8829450000
IE-XM-6U-RJ45/RJ45-IP67	8829440000
IE-XM-RJ45/IDC-IP67	8808440000
IE-XM-USB/USB-IP67	8892670000

Accessories

	-
Flange insert	
	RJ45 module A, straight
	RJ45 module B, straight
	RJ45 coupling, straight
	RJ45 coupling, angled
Note	

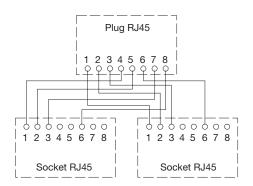
Order No.
8808330000
8908840000
8878120000
8878130000

Technical data

Category	Cat.6 (IEC 11801)
Protection class	IP 67
Housing material	PA 66; UL 94: V-0
Colour	light grey (RAL 7035)
Shielding	360° shield contact
Installation	in switching cabinet or junction boxes
Plugging cycles	750 plugging cycles for plugs to IEC 60603-7

Cable splitter module

- Cat.5
- IP 20



Cable splitter module

Application:

If you need an adapter that lets you use one eight-wire installation cable for two four-wire services, then the Weidmüller cable splitter module is the right choice for you.



Ordering data

Description of article	
	Cable splitter module

Туре	Order No.
IE-CSM 1 Set	8808400000
Supplied in packs of 2 pcs	

Accessories

Note

Technical data

Category	Cat.5 (IEC 11801)
Protection class	IP 20
Colour	light grey (RAL 7035)
Installation	can be plugged in adjacent to each other in
	patch panel
Housing material	shockproof ABS, metallised aluminium

Connection module

- Cat.7
- IP 20



Connecting module

Application:

The Weidmüller connecting module is useful for repairing or extending cables in confined spaces without any extra cable.

Please note that you will need to make an extra plug-in connection when using this module. This can influence the transmission properties of that stretch and must therefore be documented.

Ordering data

Description of article	
	Connecting module

Туре	Order No.
IE-CCM	8808410000

Accessories

tools	
	PUNCH DOWN TOOL
Note	

Туре	Order No.
PUNCH DOWN TOOL PDT	9013970000
Blades see the "Tools" chapter (p	age E.7).

Technical data

Category	Cat.7 (IEC 11801)
Protection class	IP 20
Housing material	fully shielded metal housing
Colour	grey
Shielding	Captive 360° shield connection,
	plus separate strain relief
Installation	Wall or floor mounting
Functionality	Module for extending or repairing Ethernet
	cables;
	cable can be fed from one or both ends.
Connection for core	AWG 24 to AWG 22/1
	IDC
	LSA Plus®

M12 connection system

Description

M12 is by far the most widespread connection method for controller systems and field level connections M12 connections have been used with success in the automation sector for about thirty years. The M12 is trusted by users for its compact and sturdy design. It is also available with IP67 protection in compliance with EN 60529. IE organizations and associations are now leading harmonization efforts regarding IP67 connections in Industrial Ethernet. These organizations agree on the use of the M12 connector with the D-coded mating profile. The Profibus User Organization (Profinet), Ethernet Powerlink Standardization Group (Ethernet Powerlink), Modbus IDA (Modbus) and ODVA (Ethernet/IP) all support the M12, D-coded connection along side the RJ45 connection.

Application

M12, D-coded plug-in connectors and cables are used for applications in harsh industrial environments – ideal for Ethernet connections in class of protection IP 67 between devices on the machine and in the switching cabinet, or in moving cable carriers.

Features

- IP 67 class of protection
- 4-core conductor connection
- M12, d-coded pin arrangement to ISO IEC 61076-2-101

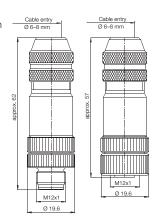
The benefits for you

- Familiar connection technology for Industrial Ethernet as well
- Compact dimensions



M12 connector, screw connection

- Cat.5
- IP 67
- Screw connection





M12 connector, screw connection 1

Application:

Weidmüller's field-assembled M12 plug-in connectors can be used for assembling 4-wire Ethernet cables directly on-site:

- on the panel
- without tools
- fast
- simple

Features:

- Cat.5
- M12 D-coded
- IP 67
- in male and female versions

The differences:

- 1892120000: male version, straight, brass, nickel-plated, screw connection
- 1892130000: female version, straight, brass, nickel-plated, screw connection

Ordering data

Male	
	4-pole, PG 9
Socket	
	4-pole, PG 9

Туре	Order No.
SAISM-4/8S-M12-4P D-COD	1892120000
SAIBM-4/8S-M12-4P D-COD	1892130000

Accessories

Note			

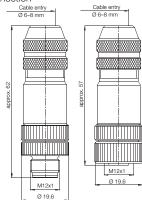
te	

Technical data

Category	Cat.5
Protection class	IP 67
Connection type	Screw connection
Housing material	Brass
Contact tube diameter	M12
Cladding diameter, min. / max.	6 mm / 8 mm
Cross-section	0.14 0.5 mm ²
Operating temperature, min. / max.	-40 °C / 85 °C

M12 connector, tension-clamp connection

- IP 67
- Tension-clamp connection



M12 connector, tension-clamp connection

Application:

Weidmüller's field-assembled M12 plug-in connectors can be used for assembling 4-wire Ethernet cables directly on-site:

- in the field
- without tools
- fast
- simple

Features:

- M12 D-coded
- IP 67
- in male and female versions

Differences:

- 1892120001: Male straight version, brass, nickel-plated, tension-clamp connection
- 1803930001: Male angled version, brass, nickel-plated, tension-clamp connection
- 1892130001: Female straight version: brass, nickel-plated, tension-clamp connection



Ordering data

.	nig data
Male	
	Tension-clamp connection, straight
	Tension-clamp connection, angled
Socket	
	Tension-clamp connection, straight

Order No.	Туре
P D-ZF 1892120001	SAISM-4/8S-M12 4P D-ZF
P D-ZF 1803930001	SAISW-4/8S-M12 4P D-ZF
P D-ZF 1892130001	SAIBM-4/8S-M12 4P D-ZF

Accessories

Note			

Technical data

Protection class	IP 67
Connection type	Tension clamp connection
Housing material	Brass
Contact tube diameter	M12
Cladding diameter, min. / max.	6 mm / 8 mm
Cross-section	0.25 0.5 mm ²
Operating temperature, min. / max.	-40 °C / 85 °C

M12 adapters and coupling

- Cat.5
- IP 67



Adaptors and couplings M12

Application:

Weidmüller's M12 adaptors and couplings should be used whenever you need to bring an M12 cable to the switchgear cabinet, or whenever you need to connect two M12 cables.

Variations:

- 8901630000: angled adapter from M12 female to RJ45-female; for mounting in wall of switchgear cabinet
- 8901620000: straight adapter from M12-female to RJ45-female; for mounting in wall of switchgear cabinet
- 8901640000: straight adapter from M12-female to RJ45-female; for surface mounting or exposed

Ordering data

Adapter	
	straight
	Angled
with Coupling	

Туре	Order No.
IE-M12-ADAP S	8901620000
IE-M12-ADAP A	8901630000
IE-M12-COUP	8901640000

Accessories

Note			

Technical data

Category	Cat.5 (IEC 11801)
Protection class	IP 67
Configuration	M12-female to RJ45-female (adaptor), M12-
	female to M12-female (coupling)
Housing material	Polyamide, fully shielded metal housing
Shielding	360° shield contact
Operating temperature, min. / max.	-5 °C / 60 °C

M12 PCB connecting element

- Cat.5
- for device installation



M12 PCB connection element

Weidmüller PCB connection elements can be used for the equipment you use in the field. These permit the connection of M12 connectors with D-coded pin layout.

Variations:

- 8902810000: M12 female connector, for direct mount to PCB
- 8902820000: M12 female connector special, for additional snap-on to PCB

Ordering data

Connection element			
THR			
THT, Can be snapped on			

8902810000
8902820000
-

Accessories

ote			

Technical data

Category	Cat.5 (IEC 11801)
Protection class	IP 65 according to DIN EN 60529
Configuration	Reflow compatible
Housing material	Polyamide, CuZn, nickel-plated
Shielding	360° shield contact
Operating temperature, min. / max.	-40 °C / -85 °C

FrontCom®

Communicating through the closed front panel of the switchgear cabinet, by using Weidmüller's front panel interface in IP65.

Access to the computer is typically via standardized interfaces such as RJ45 and USB, in order to program and configure the facility. With IPC however, this interface is located within switchgear cabinet. Users must always first open the cabinet door before servicing. In conjunction with our customers, Weidmüller has developed an amazingly simple and practical solution for accessing devices within the cabinet without opening the cabinet door - the FrontCom® front panel interface. The front panel interface also functions as a service flap through which the standard interfaces are easily accessible externally.

Designed with IP65 protection, the front panel interface offers a cover which can be closed and locked. You can thus raise the level of security when needed and prevent access by a third party. In addition, FrontCom® has an efficient and open design. Customized interfaces and functions can be delivered pre-assembled as adapter plates, on customer request. The result is a quicker, simpler and more targeted approach to your system's implementation, service, monitoring and expansion. Because of a variety of available adapter solutions, FrontCom® accepts different interfaces and can be variably adapted for your application.



FrontCom® simplifies service, start-up, and monitoring

Create your customized service interface.

Weidmüller's FrontCom® product line offers many possibilities; it can be combined with RJ45, Sub-D 9-pole/15-pole/19-pole, USB or Schuko sockets. Additional interfaces available on request.

Both the proven RJ45 modules (from the IE line) with **STEADY**TEC® technology as well as the USB module can be used in the FrontCom® Micro.



FrontCom® frame

- IP 65
- contains cover, frame, seals, fixings and designation tags, no insert

FrontCom® GH Key

lockable



FrontCom® GH Knob

lockable





Technical data

Version

Material

UL 94 flammability class

Colour

Resistance to shocks

Threaded bolts / screws Durabiity

Ingress protection class

Pollution severity

Storage temperature

Lockable housing
PPE
VO
RAL 7004
to DIN EN 50102
M5 / V2A
UV; Fuel; Oil
IP65 according to EN 60529
3
-20 °C+80 °C

Lockable housing
PPE
VO
RAL 7004
to DIN EN 50102
M5 / V2A
UV; Fuel; Oil
IP65 according to EN 60529
3
-20 °C+80 °C

Length x width x height

Note

33 x 101 x 136

mm

With 2 keys, without insert

33 x 101 x 136

with lock, without insert

Ordering data

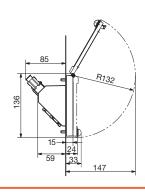
Туре	Qty.	Order No.
FRONTCOM GH KEY	1	1879200000
Designation tags ESG8/17 1720610000		
Felt pen STI-S 0508401694		

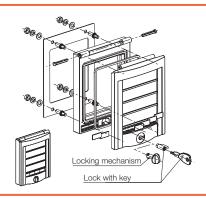
Туре	Qty.	Order No.
FRONTCOM GH KNOB	1	1879210000
Designation tags ESG8/17 1720610000 Felt pen STI-S 0508401694		

Application

Note







FrontCom® Inserts

- IP 65
- Inserts for FrontCom® frames

FrontCom® AR Data

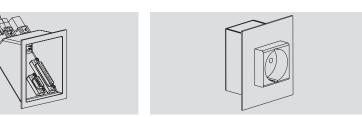
RJ45, USB, SUB D 9+25 pole



FrontCom® AR Plug

Adapter for 230 V earthed plug





Technical data

Version

Material

UL 94 flammability class

Colour

Storage temperature

Interfaces

Combination of four integrated data interfaces
Wired 1:1
PPE
V0
RAL 7004
-20 °C+80 °C
1 x USB: type A, female-female,
Lockable with inserted USB stick
1 x RJ45: female-female, Cat.From 5 to 100 MHz

x RJ45: female-female, Cat.From 5 to 10

1 x SUB D 9-pole: female-male

1 x SUB D 25-pole: female-male

Frame includes a Schuko socket

Stainless steel

-20 °C...+80 °C 230 V Schuko socket

Length x width x height

Note

85 x 101 x 136

mm

1 x 136

59 x 101 x 136

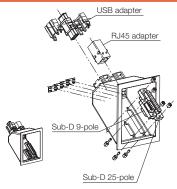
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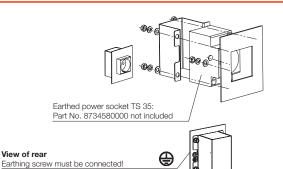
Туре	Qty.	Order No.
FRONTCOM AR DATA	1	1879220000
Designation tags ESG8/17 1720610000 Felt pen STI-S 0508401694		

Туре	Qty.	Order No.
FRONTCOM AR PLUG	1	1879230000
Earthed power socket 8734580000		

Application

Note





Tightening torque for screws: 1.5 Nm

FrontCom® Inserts

- IP 65
- Inserts for FrontCom® frames

FrontCom® AR

Universal







Technical data

Version Material UL 94 flammability class Storage temperature Interfaces Universal plate without cut-outs
Aluminium
V0
-20 °C...+80 °C
Universal

Aluminium plate, completely assembled
Aluminium

-20 °C...+80 °C

1x Schuko socket

1x RJ45. female-female

1x USB, Type A, female-female

1x SUB D 9-pole, male-female

Length x width x height mm

Note

2,5 x 101 x 136

136 x 101 x 35

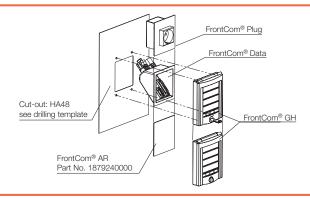
Ordering data

Туре	Qty.	Order No.
FRONTCOM AR	1	1879240000

Туре	Qty.	Order No.
FC-AR-D9/RJ45/USB/230	1	1008130000
-		

Application

Note



FrontCom® frame and insert

FrontCom® RockStar®

FrontCom® RockStar®

Insert

Frame

mm





Technical data

Version Material Resistance to shocks Ingress protection class Storage temperature Interfaces Lockable housing
diecast aluminium
to DIN EN 50102
IP65 according to EN 60529
-40 °C...+100 °C

Aluminium plate, completely assembled
Aluminium

-20 °C...+80 °C

1x Schuko socket

1x RJ45. female-female

1x USB, Type A, female-female

1x SUB D 9-pole, male-female

Length x width x height

Note

74 x 85 x 35

Ordering data

Туре	Qty	/-	Order No.
HDC 32B ADLU		1	1219800000
	-		

Туре	Qty.	Order No.
FC-RS-D9/RJ45/USB/23	1	1008120000

Application

Note



Base plates

Inserts







Base plates	
Туре	Order No.
Frontcom Standard base plate	4341150000
Frontcom RockStar base plate	4341160000

FrontCom® Custom and RockStar®

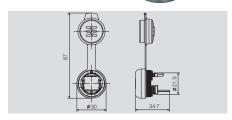
Trontoom Oustom and Nockotal	
Туре	Order No.
Insert for RJ45 coupling0	4341270000
Insert for USB coupling	8941340000
Insert for Sub-D 9-pole plug/socket0	8910980000
Insert for Sub-D 9-pole plug/plug	5655400000
Insert for Sub-D 9-pole socket/socket	5655390000
Insert for Sub-D 15-pole plug/plug	5655410000
Insert for Sub-D 15-pole socket/socket	5655420000
Insert for Sub-D 25-pole plug/plug	5655430000
Insert for Sub-D 25-pole plug/socket	5655440000
Insert for Sub-D 25-pole socket/socket	5655450000
Einsatz Sub-D 25-pol Buchse/Buchse	5655460000

FrontCom® Micro

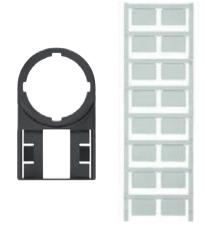
- Cat.6A
- IP 65

FrontCom® Micro





Markers, FrontCom® Micro



Technical data

Category

Protection class

Housing material

Colour

Shieldina

Installation

Plugging cycles

Cat. 6A / Class E_A (IEC 11801 PDAM Am 1.2 2007)

IP 65 gemäß EN 60529

PA; UL 94: V-0 (Protective cap NBR)

black

360° shield contact

to electrical cabinet, distribution board or control panel

750 plugging cycles for connectors, according to IEC 60603-7

Application:

Weidmüller's FrontCom® Micros are your best choice when you need an IP65 connection at the control panel, electrical cabinet or distribution board.

The differences:

- 1018790000: Coupling insert for RJ45 to RJ45, straight version
- 1018810000: RJ45 module insert for connecting AWG 26 - AWG 22 wires; colour coding according to EIA/TIA 568 A
- 1018820000: RJ45 module insert for connecting wires from AWG 26 to AWG 22; colour coding according to EIA/TIA 568 B
- 1018830000: RJ45 module insert for connecting wires from AWG 26 to AWG 22; colour coding according to industrial Ethernet
- 1018840000: Coupling insert for USB to USB

Ordering data

Product description

FrontCom® Micro RJ45 Coupling
FrontCom® Micro RJ45, TIA-A Module
FrontCom® Micro RJ45, TIA-B Module
FrontCom® Micro RJ45, Industrial Ethernet Module
FrontCom® USB Coupling
SwitchMark holder
SwitchMark markers, white

type	Order No.
IE-FCM-RJ45-C	1018790000
IE-FCM-RJ45-FJ-A	1018810000
IE-FCM-RJ45-FJ-B	1018820000
IE-FCM-RJ45-FJ-P	1018830000
IE-FCM-USB-A	1018840000
SM-H 27/18	1716630000
SM 27/18 MC	1699860000

Note: Refer to Catalogue 7 for additional variants.