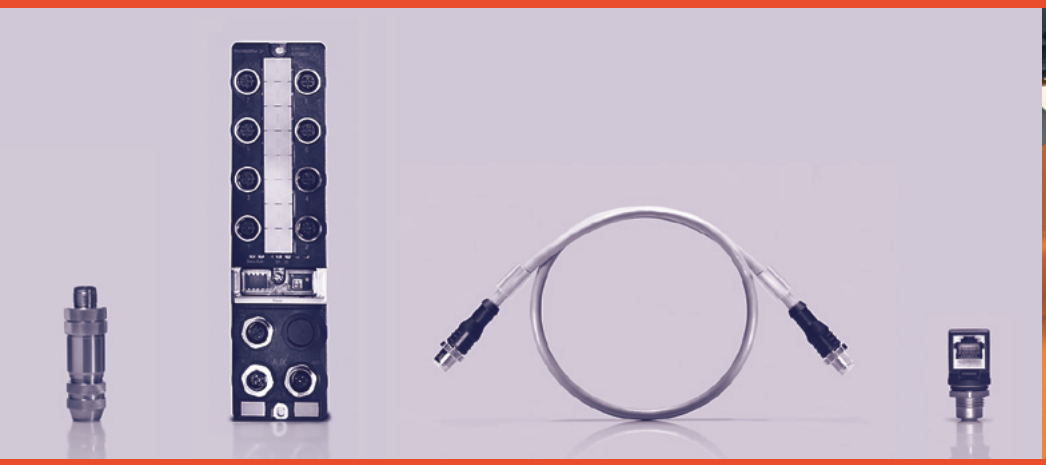


M12 connection system for Industrial Ethernet

Product Information

Weidmüller

Overview M12

In the last 20 years, Ethernet has developed into the standard network technology for the office and IT environment. Not only the technical performance and freedom from problems but also the interoperability of components of many different manufacturers has contributed to this. This has ultimately resulted in a broad range of convenient and effective components and systems and therefore an exceptional benefit for users.

For the transmission of Industrial Ethernet using copper wires, two standards have developed: RJ45 and M12. The product information here gives you an overview of the entire M12 connection system for Industrial Ethernet from Weidmüller.

Description

Circular connector M12, d-coded as per EN 61076-2-101

Features

- IP67 as per EN 60529
- 4-core cable or conductor connection
- Cat.5 as per EN 50173-1:2003

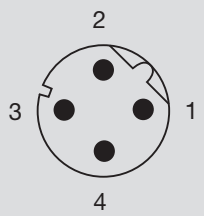
Benefits of M12

- Familiar connection technique for around 30 years
- Robust joint
- Small size
- Common standard: PNO, IAONA, Modbus-IDA, ECTG and ODVA all recommend M12, d-coded

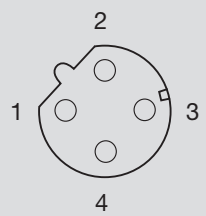
Applications

- Machines and plants
- Rail and shipping industries
- Automotive industry
- Process engineering

Pin arrangement Pin version



Pin arrangement Socket version



RJ45 or M12?

When it comes to the applications for RJ45 and M12, we differentiate between offices and industrial buildings on the one hand, and machines and automation on the other. You decide whether RJ45 or M12 is suitable for your situation on the basis of the standards and requirements in these fields of application.

Offices and industrial buildings

Machines and automation islands

Standards

- ISO/IEC 11801
- ISO/IEC 60603-7 (RJ 45)
- ISO/IEC 24702

Standards

- ISO/IEC 61918 (draft)

Criteria

- Future-proof for high data transmission rates (10 Gigabit Ethernet)
- All connections of building and floor distributors or of PCs are in RJ45

Criteria

- Technical specification of machines
- Preference and familiarity

Plug-in connector RJ45 in IP20

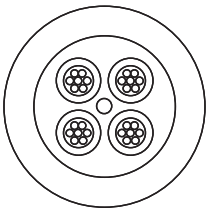
Plug-in connector RJ45 in IP67

Plug-in connector RJ45 in IP67

Plug-in connector M12

Assembled cable - trailing cable M12 straight

- Cat.5
- PUR
- PROFINET type C



Assembled cable - trailing cable M12 straight

Application:
Weidmüller trailing cable can be used wherever lines are subjected to frequent or constant movement in industrial environments - and not only in cable carriers! They are:

- robust
- flexible
- Pre-assembled with D-coded M12 connectors

Ordering data

	Type	Order No.
Cat.5 PROFINET, PUR, M12-M12		
1.5 m	IE-C5DD4UG0015MCSMCS-E	**1025950015**
3 m	IE-C5DD4UG0030MCSMCS-E	**1025950030**
5 m	IE-C5DD4UG0050MCSMCS-E	**1025950050**
10 m	IE-C5DD4UG0100MCSMCS-E	**1025950100**
Cat.5 PROFINET, PUR, M12-open ended		
1.5 m	IE-C5DD4UG0015MCSXXX-E	**1025940015**
3 m	IE-C5DD4UG0030MCSXXX-E	**1025940030**
5 m	IE-C5DD4UG0050MCSXXX-E	**1025940050**
10 m	IE-C5DD4UG0100MCSXXX-E	**1025940100**
Cat.5 PROFINET, PUR, M12-RJ45		
1.5 m	IE-C5DD4UG0015MCSA20-E	**1044470015**
3 m	IE-C5DD4UG0030MCSA20-E	**1044470030**
5 m	IE-C5DD4UG0050MCSA20-E	**1044470050**
10 m	IE-C5DD4UG0100MCSA20-E	**1044470100**
Cat.5 PROFINET, PUR, M12-M12 female		
1.5 m	IE-C5DD4UG0015MCSMSS-E	**1059330015**
3 m	IE-C5DD4UG0030MCSMSS-E	**1059330030**
5 m	IE-C5DD4UG0050MCSMSS-E	**1059330050**
10 m	IE-C5DD4UG0100MCSMSS-E	**1059330100**

Accessories

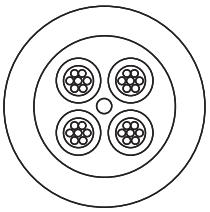
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	**1718431044**
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	**1718431687**
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	**1719850000**
Note		

Technical data

Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	4*AWG 22/7 - 0.36 mm²
Sheath diameter	6.3 - 6.7 mm
Sheath material	PUR
Sheathing colour	green (RAL 6018)
Wire insulation diameter	1.5 mm
Min. bending radius, repetitive	8.0 *Diameter
Bending cycles	3 mill.
Operating temperature, min. / max.	-40 °C / 70 °C
Abrasion resistance	very good
Free from halogens	to IEC 60754-2
Resistance to spread of flame	to IEC 60332-1
Resistance to oils	to IEC 60811-2-1

Assembled cable - trailing cable M12 angled

- Cat.5
- PUR
- PROFINET type C



Available in second quarter 2009

Assembled cable - trailing cable M12 angled

Application:
Weidmüller trailing cable can be used wherever lines are subjected to frequent or constant movement in industrial environments - and not only in cable carriers! They are:

- robust
- flexible
- Pre-assembled with D-coded M12 connectors

Ordering data

	Type	Order No.
Cat.5 PROFINET, PUR, M12 straight-M12 angled		
1.5 m	IE-C5DD4UG0015MCSMCA-E	**1059770015**
3 m	IE-C5DD4UG0030MCSMCA-E	**1059770030**
5 m	IE-C5DD4UG0050MCSMCA-E	**1059770050**
10 m	IE-C5DD4UG0100MCSMCA-E	**1059770100**
Cat.5 PROFINET, PUR, M12 angled-M12 angled		
1.5 m	IE-C5DD4UG0015MCAMCA-E	**1059890015**
3 m	IE-C5DD4UG0030MCAMCA-E	**1059890030**
5 m	IE-C5DD4UG0050MCAMCA-E	**1059890050**
10 m	IE-C5DD4UG0100MCAMCA-E	**1059890100**
Cat.5, PUR, M12 angled-open ended		
1.5 m	IE-C5DD4UG0015MCAXXX-E	**1059750015**
3 m	IE-C5DD4UG0030MCAXXX-E	**1059750030**
5 m	IE-C5DD4UG0050MCAXXX-E	**1059750050**
10 m	IE-C5DD4UG0100MCAXXX-E	**1059750100**
Cat.5, PUR, M12 angled-RJ45		
1.5 m	IE-C5DD4UG0015MCAA20-E	**1059760015**
3 m	IE-C5DD4UG0030MCAA20-E	**1059760030**
5 m	IE-C5DD4UG0050MCAA20-E	**1059760050**
10 m	IE-C5DD4UG0100MCAA20-E	**1059760100**

Accessories

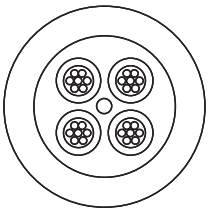
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	**1718431044**
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	**1718431687**
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	**1719850000**
Note		

Technical data

Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	4*AWG 22/7 - 0.36 mm²
Sheath diameter	6.3 - 6.7 mm
Sheath material	PUR
Sheathing colour	green (RAL 6018)
Wire insulation diameter	1.5 mm
Min. bending radius, repetitive	8.0 *Diameter
Bending cycles	3 mill.
Operating temperature, min. / max.	-40 °C / 70 °C
Abrasion resistance	very good
Free from halogens	to IEC 60754-2
Resistance to spread of flame	to IEC 60332-1
Resistance to oils	to IEC 60811-2-1

Assembled cable - railway cable M12 straight

- Cat.5
- Radox



Assembled cable - railway cable M12 straight

Description

Weidmüller's Industrial Ethernet railway cable can be used on railway vehicles for both interior and exterior installations.
They connect parts which are fixed or which are occasionally in motion.
They are in compliance with EN 50155 requirements.

Ordering data

	Type	Order No.
Cat.5 PUR, M12-M12		
1.5 m	IE-C5DB4RE0015MCSMCS-E	**1010850015**
3 m	IE-C5DB4RE0030MCSMCS-E	**1010850030**
5 m	IE-C5DB4RE0050MCSMCS-E	**1010850050**
10 m	IE-C5DB4RE0100MCSMCS-E	**1010850100**
Cat.5, PUR, M12-open ended		
1.5 m	IE-C5DB4RE0015MCSXXX-E	**1010840015**
3 m	IE-C5DB4RE0030MCSXXX-E	**1010840030**
5 m	IE-C5DB4RE0050MCSXXX-E	**1010840050**
10 m	IE-C5DB4RE0100MCSXXX-E	**1010840100**
Cat.5 PUR, M12-M12 female		
1.5 m	IE-C5DB4RE0015MCSMSS-E	**1059340015**
3 m	IE-C5DB4RE0030MCSMSS-E	**1059340030**
5 m	IE-C5DB4RE0050MCSMSS-E	**1059340050**
10 m	IE-C5DB4RE0100MCSMSS-E	**1059340100**

Accessories

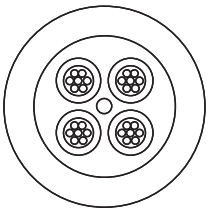
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	**1718431044**
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	**1718431687**
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	**1719850000**
Note		

Technical data

Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm²
Sheath diameter	6.95 - 7.55 mm
Sheath material	Radox GKW S
Sheathing colour	black
Wire insulation diameter	1.95 mm
Min. bending radius, repetitive	6.0 *Diameter
Operating temperature, min. / max.	-40 °C / 90 °C
Abrasion resistance	very good
Free from halogens	acc. IEC 60754-2
Resistance to spread of flame	acc. IEC 60332-1
Resistance to oils	acc. EN 50306-3

Assembled cable - railway cable M12 angled

- Cat.5
- Radox



Available in second quarter 2009

Assembled cable - railway cable M12 angled

Description

Weidmüller's Industrial Ethernet railway cable can be used on railway vehicles for both interior and exterior installations.
They connect parts which are fixed or which are occasionally in motion.
They are in compliance with EN 50155 requirements.

Ordering data

	Type	Order No.
Cat.5 PUR, M12 straight-M12 angled		
1.5 m	E-C5DB4RE0015MCSMCA-E	**1059940015**
3 m	IE-C5DB4RE0030MCSMCA-E	**1059940030**
5 m	IE-C5DB4RE0050MCSMCA-E	**1059440050**
10 m	IE-C5DB4RE0100MCSMCA-E	**1059940100**
Cat.5 PUR, M12 angled-M12 angled		
1.5 m	IE-C5DB4RE0015MCAMCA-E	**1059970015**
3 m	IE-C5DB4RE0030MCAMCA-E	**1059970030**
5 m	IE-C5DB4RE0050MCAMCA-E	**1059970050**
10 m	IE-C5DB4RE0100MCAMCA-E	**1059970100**
Cat.5, PUR, M12 angled-open ended		
1.5 m	IE-C5DB4RE0015MCAXXX-E	**1059900015**
3 m	IE-C5DB4RE0030MCAXXX-E	**1059900030**
5 m	IE-C5DB4RE0050MCAXXX-E	**1059900050**
10 m	IE-C5DB4RE0100MCAXXX-E	**1059900100**

Accessories

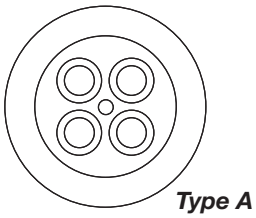
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	**1718431044**
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	**1718431687**
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	**1719850000**
Note		

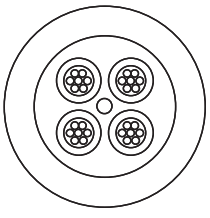
Technical data

Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm²
Sheath diameter	6.95 - 7.55 mm
Sheath material	Radox GKW S
Sheathing colour	black
Wire insulation diameter	1.95 mm
Min. bending radius, repetitive	6.0 *Diameter
Operating temperature, min. / max.	-40 °C / 90 °C
Abrasion resistance	very good
Free from halogens	acc. IEC 60754-2
Resistance to spread of flame	acc. IEC 60332-1
Resistance to oils	acc. EN 50306-3

Bulk stock - PROFINET cable

- Cat.5 / 5e
- Profinet Type A, Type B and Type C





Bulk stock - Profinet cable

Application:

Type A:
Weidmüller installation cables are your best choice when you are laying stationary cables in cable ducts and cable trays.

Type B:
Weidmüller connecting cables should be your first choice when you require connections subject to occasional movements in harsh industrial environments - in machines and installations

Type C:
Weidmüller trailing cable can be used wherever lines are subjected to frequent or constant movement in industrial environments
- and not only in cable carriers.

Ordering data

	Type	Order No.
Cat.5 PROFINET, Type A, PVC		
100 m	IE-C5AS4V1000	**8899000000**
Bulk stock starting at 110 m	IE-C5AS4VG-MW	**8955950000**
Cat.5 PROFINET, Type B, PVC		
100 m	IE-C5AS4V1000	**8899000000**
Bulk stock starting at 110 m	IE-C5AS4VG-MW	**8955950000**
Cat.5 PROFINET, Type C, PUR		
100 m	IE-C5DD4U1000	**8899010000**
Bulk stock starting at 110 m	IE-C5DD4UG-MW	**8947670000**

Accessories

	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WE	**1718431044**
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	**1718431687**
Transparent sleeves, 18-mm length	TM 4/18 HF/HB	**1719850000**
Wire and cable marker, ø 4,7 - 7,4 mm	VT SF 5/21 NEUTRAL WS V0	**1689470001**
Wire and cable marker, ø 5,8 - 7,8 mm	VT SF 6/21 NEUTRAL WS V0	**1730560001**
Sheathing stripper		
For coaxial and round data cables	IE-CST	**9204350000**
For UTP and STP data cables	AM 12	**9030060000**
Information		

Technical data

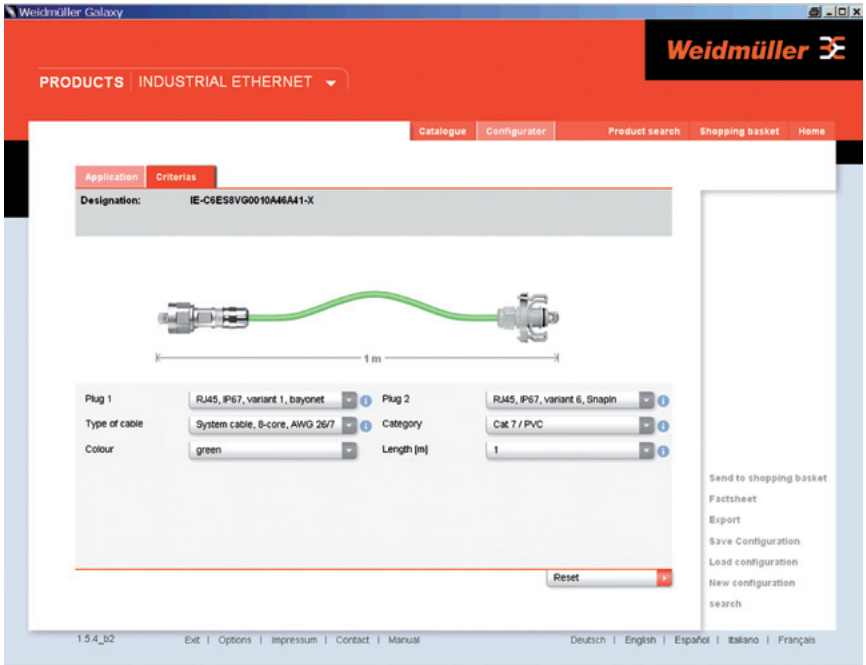
Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	4*AWG 22/1 - 0.33 mm² / 4*AWG 22/7 - 0.36 mm²
Sheath diameter	6.3 - 6.7 mm
Sheath material	PVC / PUR
Sheathing colour	green (RAL 6018)
Wire insulation diameter	1.5 mm
Min. bending radius, once only	3.5 *Diameter
Min. bending radius, repetitive	7.5 *Diameter
Operating temperature, min. / max.	-40 °C / 75 °C
Installation temp., min. / max.	-20 °C / 60 °C
Storage temperature, min. / max.	-40 °C / 75 °C

Galaxy Configurator for copper cable

The cable configurator in the Weidmüller online catalogue (or offline with the Galaxy software program) makes it possible for you to create fully-assembled cables adapted to your requirements and specifications.

An RJ45 plug with IP20 protection is available. The following variants are also available with IP67 protection:

- Variant 1, metal
- Variant 4, plastic
- Variant 5, metal
- Variant 6, plastic
- M12 connector



When selecting the cable, the following types are available:

- 8-wire system cable, AWG 26/7 in Cat.5 or Cat.7, with PVC or PUR sheath
- 8-wire dragline cable, AWG 26/7 in Cat.5, PUR sheath
- 4-wire PROFINET Type B cable, AWG 22/7 in Cat.5, PVC sheath
- 4-wire PROFINET Type C dragline cable, AWG 22/7 in Cat.5, PUR sheath
- 4-wire railway connecting cable, AWG 22/7 in Cat.5, Radox sheath

You have the choice of configuring a cable which is identical on both ends, or with two different mating profiles, or with one end left open.

The cable length can also be customized:

- From 0.3 m to 9.9 m, in 0.1 m steps
- From 10 m to 100 m, in 1 m steps

The cable configurator can also automatically create technical data sheets for all of your customized cable variants.

All of your customized cable selections can be sent to Weidmüller using the „request list“. You will then quickly receive a price proposal for the cables from your local Weidmüller representative.

M12 adapters and coupling

- Cat.5
- IP 67

Adap a

Adap s

Coup

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

		Type	Order No.
Adapter			
	straight	IE-M12-ADAP S	**8901620000**
	Angled	IE-M12-ADAP A	**8901630000**
with Coupling			
		IE-M12-COUP	**8901640000**

Accessories

Note	

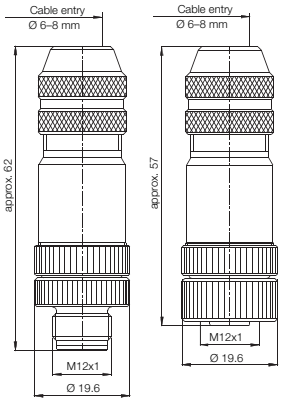
Technical data

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

Note:

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

Pin assignment M12

TD+	yellow	Pin 1
RD+	white	Pin 2
TD–	orange	Pin 3
RD–	blue	Pin 4

Ordering data

Type	Order No.
Male	
4-pole, PG 9	SAISM-4/8S-M12-4P D-COD **1892120000**
Socket	
4-pole, PG 9	SAIBM-4/8S-M12-4P D-COD **1892130000**

Accessories

Note

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 mm²
Operating temperature, min. / max.	-40 °C / 85 °C

Note:

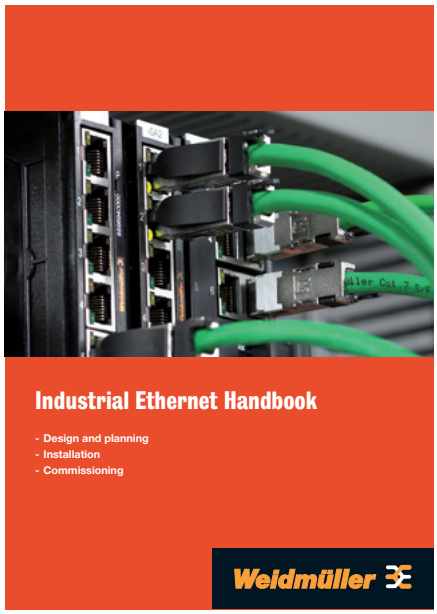
Best service

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!

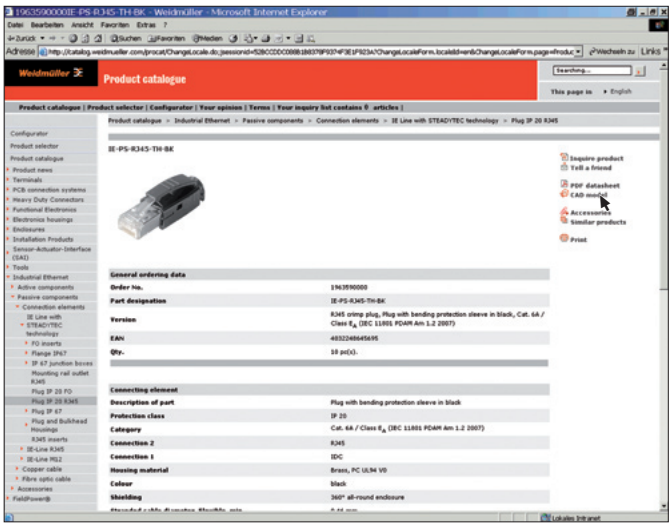
Please ask your personal sales representative about these practical guidelines.



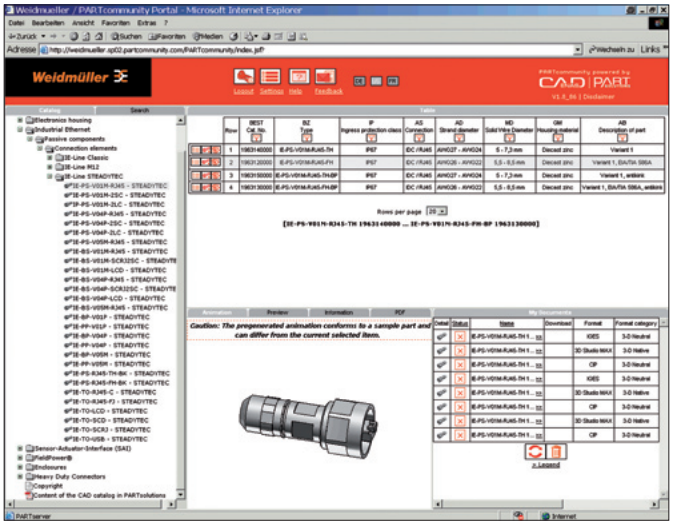
3-D data

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.

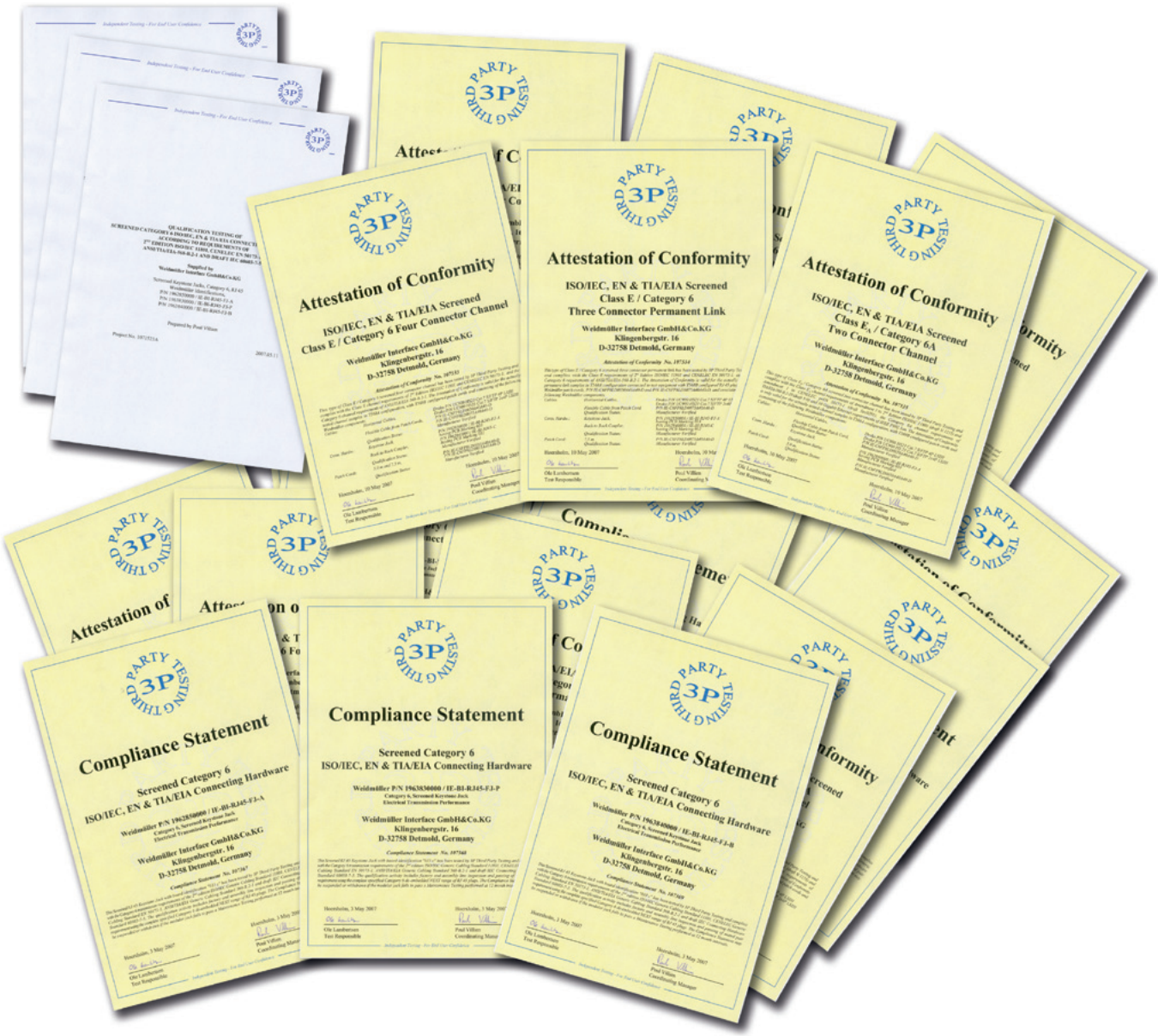


... and what more can Weidmüller do for you?

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.



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