



M12 connection system for Industrial Ethernet

Product Information

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.

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

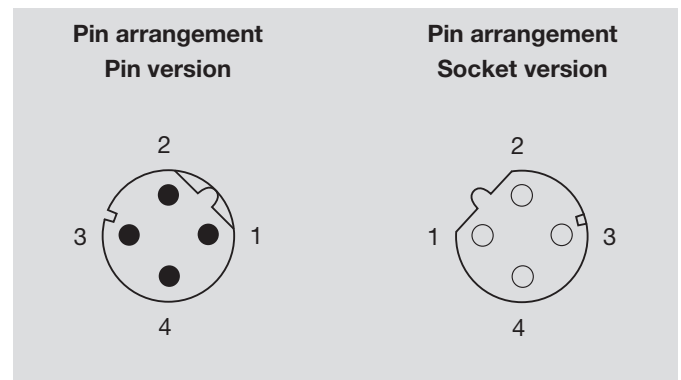
Benefits of M12

- 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

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.



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



Standards

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

Criteria

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

Plug-in connector
RJ45 in IP20



Plug-in connector
RJ45 in IP67



Machines and automation islands



Standards

- ISO/IEC 61918 (draft)

Criteria

- Technical specification of machines
- Preference and familiarity

Plug-in connector
RJ45 in IP67

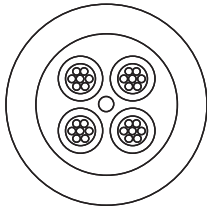


Plug-in connector
M12



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

Cat.5 PROFINET, PUR, M12-M12		Type	Order No.
	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

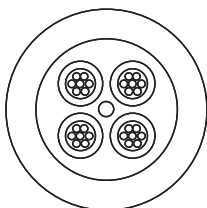
Type	Order No.
Insertion label, white, 18 mm	
Insertion label, yellow, 18 mm	
Transparent sleeve, Length 18 mm	
Note	

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**

Cat.5 PROFINET, PUR, M12 straight-M12 angled	Type	Order No.
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

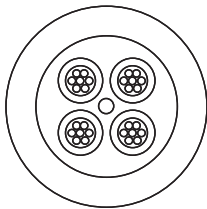
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	1718431044
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	1718431687
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	1719850000
Note		

Technical data

Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	4*AWG 22/7 - 0.36 mm ²
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

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

Accessories

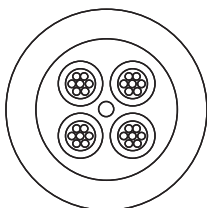
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	1718431044
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	1718431687
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	1719850000
Note		

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

Cat.5 PUR, M12 straight-M12 angled		Type	Order No.
	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

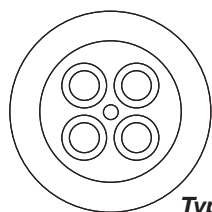
	Type	Order No.
Insertion label, white, 18 mm	TM-I 18 NEUTRAL WS	1718431044
Insertion label, yellow, 18 mm	TM-I 18 NEUTRAL GE	1718431687
Transparent sleeve, Length 18 mm	TM 4/18 HF/HB	1719850000
Note		

Technical data

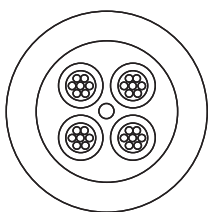
Category	Cat.5 (IEC 11801) / Cat.5e (TIA 568-B)
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm ²
Sheath diameter	6.95 - 7.55 mm
Sheath material	Radox GKW S
Sheathing colour	black
Wire insulation diameter	1.95 mm
Min. bending radius, repetitive	6.0 *Diameter
Operating temperature, min. / max.	-40 °C / 90 °C
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



Type A



Type B
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

Cat.5 PROFINET, Type A, PVC	Type	Order No.
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

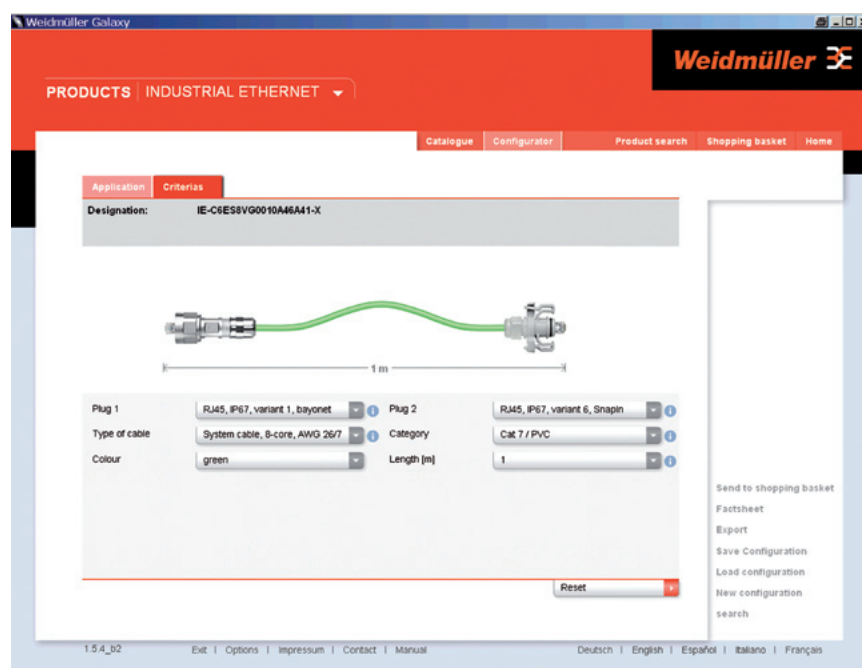
Galaxy Configurator for copper cable

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.

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.

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

The cable length can also be customized:

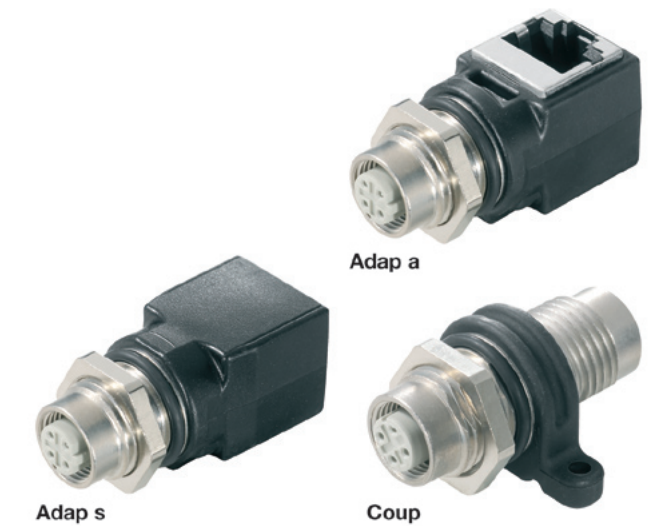
- From 0.3 m to 9.9 m, in 0.1 m steps
- From 10 m to 100 m, in 1 m steps

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



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	

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

Accessories

Note

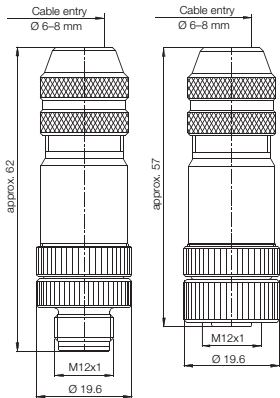
Technical data

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

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

Male	Type	Order No.
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 Ethernet? 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.



Industrial Ethernet Handbook

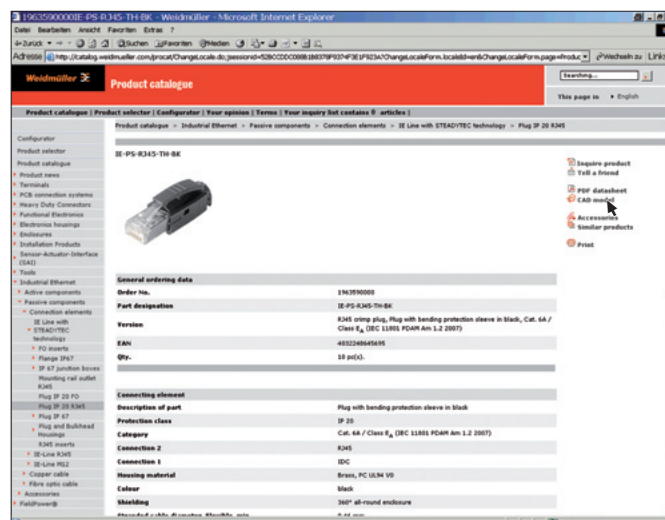
- Design and planning
- Installation
- Commissioning

Weidmüller

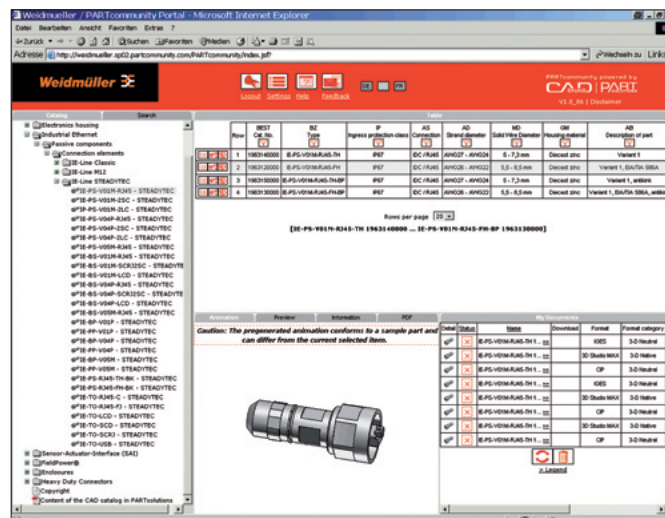
3-D data

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.



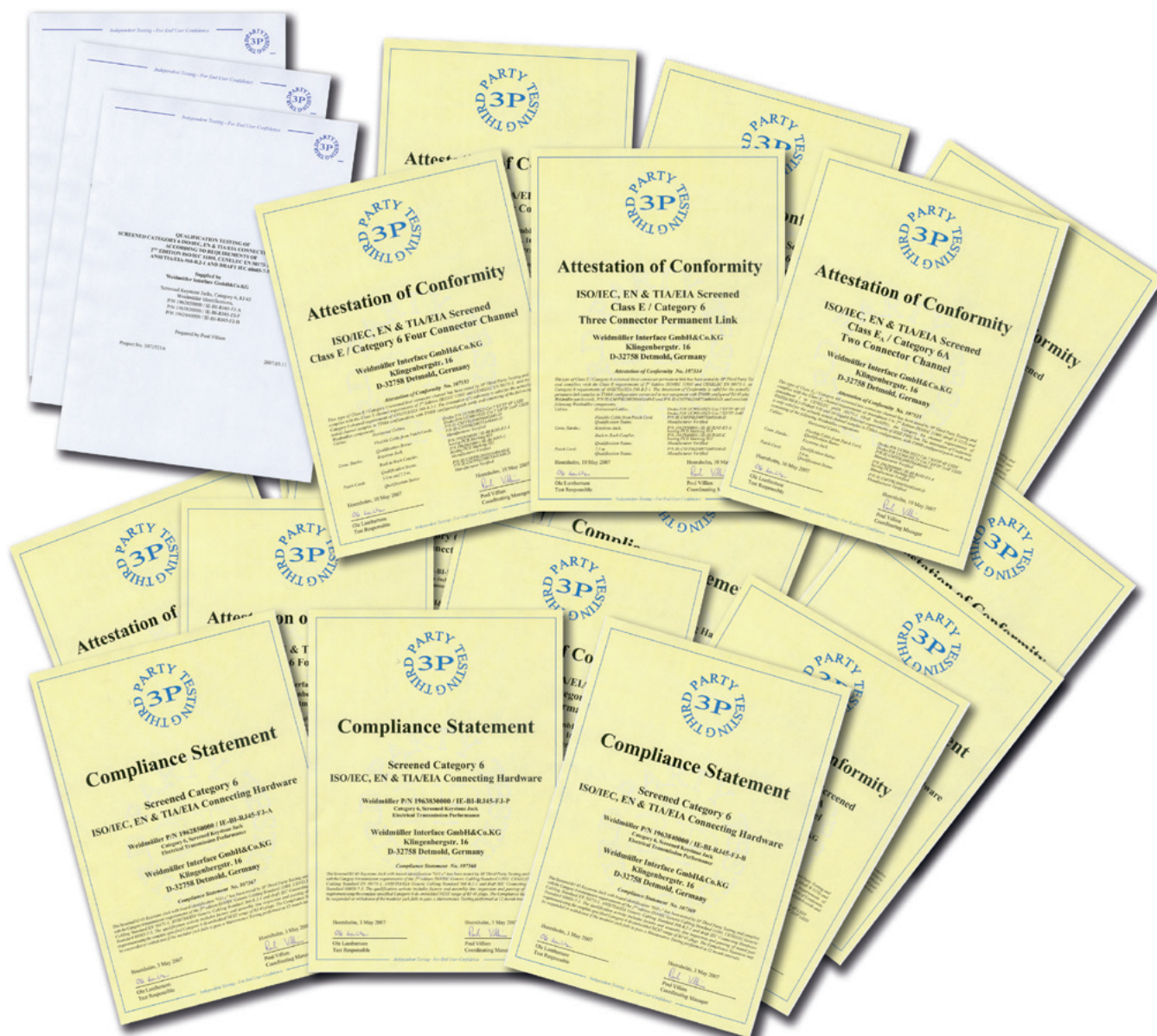
... and what more can Weidmüller do for you?

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.



Addresses worldwide

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