

Passive components

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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 (FO) cables

Here are just a few of the relevant standards

IEC 61076-3-106 describes the configuration and design of plug-in and bulkhead housings for RJ45 in class of protection IP 67.

IEC 61076-2-101 describes the configuration and design of M12 d-coded plug-in connectors for Ethernet applications.

Transmission characteristics:

- Cat.5/class D: max. 100 MHz, for 100BASE-TX
- Cat.6/class E: max. 250 MHz, for 1GBASE-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

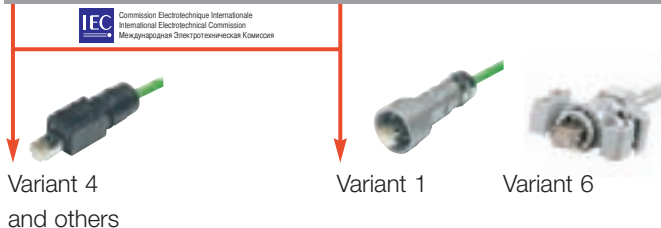
Production floors

- IEC 24702

Production units

- ISO/IEC 61918 (draft)

Plug-in connectors to IEC 61076-3-106



Structured cabling

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

- Permissible transmission and installation routes
- Permissible bending radii
- Testing for continuity, wrong polarity, short-circuits
- Shielding, EMC
- Shield $\neq$ strain relief
- Earthing

Make sure you use the right products and the right tools.

The benefits for you

Everything from one source:

- Standardised IEC plug-in connectors in variants 1, 4, 5 and 6
- Completely in Cat.6
- Pre-assembled cables and cables by the metre
- Copper and fibre-optic cables
- IP 20 and IP 67 class of protection
- All relevant industrial connectors: RJ45, M12, SC...
- Comprehensive range of accessories



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 **STEADYTEC** 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. With Ethernet connectors from Weidmüller, you are a significant step ahead of the rest: not only are these products gigabit-enabled, they also conform to the IEC 61076-3-106 standard. The connectors stipulated in this norm – versions 4 (Ethernet TCP/IP), 5 (Profinet) and 1 (Ethernet/IP) – are also required by the standards for general cabling in industrial buildings ISO/IEC 24702 (FDIS; V1, V4), automation machinery IEC 61918 (CDV; V1) and for field bus installations IEC 61784-5 (CDV; V1).

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.



STEADYTEC is a registered trademark of the Weidmüller, BTR NETCOM and Telegärtner companies.

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 gigabit connector for industrial standards with IDC connection technology has been developed to make wiring quick, easy and safe, without the need for any tools. 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.

Systematic benefits

- **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**



Unlimited combinations: the modular principle

Plug-in inserts

RJ45 crimp



RJ45 field installation



2 SC simplex



LC duplex



Plug-in and bulkhead housings

Bayonet V01 metal



Push Pull V04 plastic



RockStar® V05 metal*



* RJ45 only

Bulkhead inserts

RJ45 coupler



RJ45 module



SCRJ/2 adaptor



LC duplex adaptor



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 RJ45 plug-in connector for Gigabit Ethernet suitable for customising in the field.
- High cable sheathing diameter range up to 10 mm for variants V4 and V1, up to 12 mm for V5.

- 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).
- 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.

Plug-in connectors

Housing			Bayonet V 01 metal		Push Pull V 04 plastic		RockStar® V05 metal	
								
			with BP	without BP	with BP	without BP	without BP	
			1962560000	1962550000	1962530000	1962520000	1962540000	
Inserts								
	RJ45 crimp		1962720000	1963150000	1963140000	1963190000	1963180000	1963110000
	RJ45 field installation	TIA-A/B/ PROFINET	1962730000	1963130000	1963120000	1963170000	1963160000	1963200000
	2 SC simplex	multimode	1962750000	1963270000	1963260000	1963370000	1963360000	
		singlemode	1962760000	1963310000	1963300000	1963410000	1963400000	
		POF	1962770000	1963290000	1963280000	1963390000	1963380000	
	LC duplex	multimode	1962780000	1963230000	1963220000	1963330000	1963320000	
		singlemode	1962790000	1963250000	1963240000	1963350000	1963340000	
Protective cap				1965690000		1963890000		1963690000

BP = bending protection

BP = bending protection

V 01 with SC multimode

1963260000

V 04 with RJ45 field installation

1963160000

V 05 with RJ45 crimp

1963110000

V 01 with LC multimode

1963220000V 04 with RJ45 crimp +
bending protection**1963190000**

V 05 with RJ45 field installation

1963200000V 01 with RJ45 field installation +
bending protection**1963130000**

V 04 with LC multimode

1963320000V 04 with SC multimode +
bending protection**1963370000**

Bulkhead connectors

Housing				Bayonet V 01 metal	Push Pull V 04 plastic	RockStar® V05 metal
						
Inserts				1963540000	1963520000	1963530000
	RJ45 coupler		1962840000	1963470000	1963490000	1963510000
	RJ45 module	TIA-A	1962850000	1963480000	1963500000	1963460000
		TIA-B	1963840000	Please order separately	Please order separately	Please order separately
		PROFINET	1963830000	Please order separately	Please order separately	1963700000
	SCRJ/2 SC adaptor	multimode	1964430000	1964450000	1964470000	
		singlemode	1962870000	1963440000	1963420000	
	LC duplex adaptor	multimode	1964420000	1964440000	1964460000	
		singlemode	1962880000	1963430000	1963450000	
	Protective cap			1965700000	1963900000	1665750000

V 01 with RJ45 coupler
1963470000



V 04 with RJ45 module
1963500000



V 05 with RJ45 coupler
1963510000



V 01 with SC multimode
1964450000



V 04 with LC multimode
1964460000



V 05 with RJ45 module
1963460000



V 01 with LC multimode
1964440000



V 04 with SC multimode
1964470000



V 04 with RJ45 coupler
1963490000



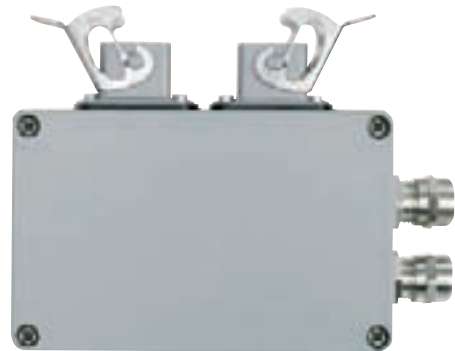
IP 67 outlet boxes

Bulkhead housing variant		Bayonet V 01 metal	Push Pull V 04 plastic	RockStar® V05 metal
Enclosure				
	1 port, straight	1966300000	1966220000	1966260000
	2 ports, right	1966310000	1966230000	1966270000
	2 ports, left	1966320000	1966240000	1966280000
	2 ports, straight	1966330000	1966250000	1966290000

V 05 / 1 port, straight
1966260000



V 05 / 2 ports, right
1966270000



V 01 / 2 ports, left
1966320000



V 04 / 2 ports, straight
1966250000



Housing variant 1

- IP 67



Housing variant 1

Application:

The Weidmüller variant 1 housing consists of a base part (bulkhead housing) and a top part (plug housing). In the plugged condition they achieve class of protection IP 67.

Features:

- IP 67
- in diecast zinc
- holder for marker
- standard pitch bulkhead housing
- protective cap IP67 retained by rubber cord
- variant 1 to ISO IEC 61076-3-106

Variations:

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

Weidmüller has a range of punching tools for making the necessary openings in the switching cabinet doors. We also have a comprehensive assortment of markers for plugs and bulkhead housing. For details, please refer to the Accessories chapter.

Technical data

[illegible]

Ordering data

Description of part		Type	Order No.
	Plug housing	IE-PH-V01M	1962550000
	Plug housing, buckling protection	IE-PH-V01M-BP	1962560000
	Plug housing protective cap	IE-PP-V01P	1965690000
	Bulkhead housing	IE-BH-V01M	1963540000
	Bulkhead housing, protective cap	IE-BP-V01P	1965700000

Note

Accessories

		Type	Order No.
	color coding ring, white	IE-CR-IP67-WS20-WH	1962990000
	color coding ring, grey	IE-CR-IP67-WS20-GY	1963000000
	color coding ring, orange	IE-CR-IP67-WS20-OG	1963010000
	color coding ring, blue	IE-CR-IP67-WS20-BU	1963020000
	color coding ring, yellow	IE-CR-IP67-WS20-YE	1963030000
	color coding ring, green	IE-CR-IP67-WS20-GN	1963040000
Note			

Housing variant 4

- IP 67



Housing variant 4

Application:

The Weidmüller variant 4 housing consists of a base part (bulkhead housing) and a top part (plug housing). In the plugged condition they achieve class of protection IP 67.

Features:

- IP 67
- in polyamide, V-0
- standard pitch bulkhead housing
- holder for marker
- protective cap IP67 retained by rubber cord
- variant 4 to ISO IEC 61076-3-106

Variations:

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

Weidmüller has a range of punching tools for making the necessary openings in the switching cabinet doors. We also have a comprehensive assortment of markers for plugs and bulkhead housing. For details, please refer to the Accessories chapter.

A fixing tool for the central gland on variant 4 is in preparation. Please contact us for more details.

Technical data

Ingress protection class
Housing material
Variant

IP 67
PA UL 94 V0
Variant 4

Ordering data

Description of part
Plug housing
Plug housing, buckling protection
Plug housing protective cap
Bulkhead housing
Bulkhead housing, protective cap

Type	Order No.
IE-PH-V04P	1962520000
IE-PH-V04P-BP	1962530000
IE-PP-V04P	1963890000
IE-BH-V04P	1963520000
IE-BP-V04P	1963900000

Note

Accessories

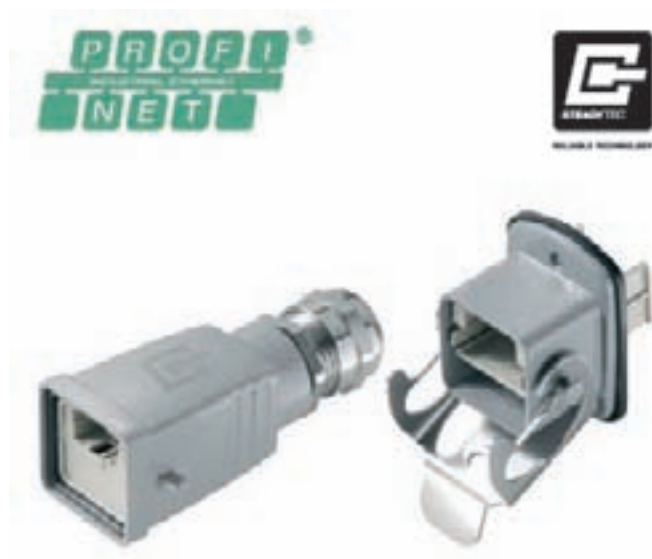
color coding ring, white
color coding ring, grey
color coding ring, orange
color coding ring, blue
color coding ring, yellow
color coding ring, green

Type	Order No.
IE-CR-IP67-WS20-WH	1962990000
IE-CR-IP67-WS20-GY	1963000000
IE-CR-IP67-WS20-OG	1963010000
IE-CR-IP67-WS20-BU	1963020000
IE-CR-IP67-WS20-YE	1963030000
IE-CR-IP67-WS20-GN	1963040000

Note

Housing variant 5

- IP 67



Housing variant 5

Application:

The Weidmüller variant 5 housing consists of a base part (bulkhead housing) and a top part (plug housing). In the plugged condition they achieve class of protection IP 67.

Features:

- IP 67
- in robust diecast aluminium
- protective cap IP67 retained by rubber cord
- variant 5 to ISO IEC 61076-3-106

Variations:

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

Weidmüller has a range of punching tools for making the necessary openings in the switching cabinet doors. We also have a comprehensive assortment of markers for plugs and bulkhead housing. For details, please refer to the Accessories chapter.

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Plug housing	IE-PH-V05M	1962540000
Bulkhead housing	IE-BH-V05M	1963530000
Protective cap for plug housing	HDC 04A DODL 1LB	1963690000
Protective cap for bulkhead housing	HDC 04A DMDL 1BO	1665750000
Note		

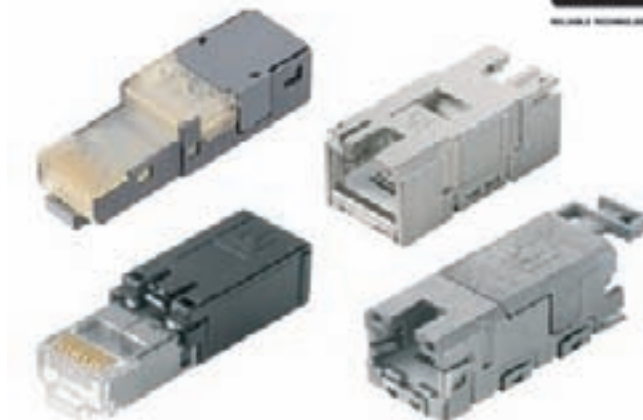
Accessories

Type	Order No.

Note

RJ45 inserts

- Cat.6
- IP 20



RJ45 inserts

Application:

The inserts are designed for use in Weidmüller housings - variants 1, 4 or 5.

Features:

- Cat.6
- IP 20 without housing
- as AWG 22 or AWG 24 inserts
- as plug-in or bulkhead inserts
- for flexible conductors from AWG 27/7 to AWG 22/7
- for solid conductors from AWG 27/1 to AWG 22/1
- thanks to just 2 elements, easy to assemble without any tools
- with colour coding on plug in TIA A/B/PROFINET
- 360° shield contact
- robust diecast zinc housing or nickel-plated brass housing

Variations:

RJ45 inserts, no tools required:

- diecast zinc housing, black
- stranded conductors: AWG 26/7 to AWG 22/7
- solid conductors: AWG 26/1 to AWG 22/1
- sheathing diameter: 5.5 to 10 mm for bulkhead inserts and 5.5 to 8.5 mm for plug-in inserts
- wire insulation diameter: up to 1.6 mm

RJ45 crimp inserts:

- brass housing
- stranded conductors: AWG 27/7 to AWG 24/7
- solid conductors: AWG 27/1 to AWG 24/1
- sheathing diameter: 5.5 to 10 mm for bulkhead inserts and 5.0 to 7.3 mm for plug-in inserts
- wire insulation diameter: 0.85 to 1.05 mm

Technical data

Category
Ingress protection class
Plugging cycles
Shielding

Cat.6
IP 20
750 plugging cycles for plugs to IEC 60603-7
360° all-round enclosure

Ordering data

Description of part
Plug insert AWG 22
Plug insert AWG 24
Bulkhead inserts coupler
Bulkhead inserts AWG 22, EIA / TIA 586 A
Bulkhead inserts AWG 22, EIA / TIA 586 B
Bulkhead inserts AWG 22, PROFINET

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

Note

Accessories

Pressing tool

Type	Order No.
TT 8 RS MP 8	9202800000

Note

SC inserts

- IP 20



SC inserts

Application:

The SC inserts are designed for use in Weidmüller housings - both variant 1 and variant 4.

Features:

- IP 20 without housing
- robust design in diecast zinc
- as plug-in or bulkhead inserts

FO fabrication tools can be found in the Accessories chapter. An FO fabrication case is in preparation. Please contact us for more details.

Technical data

[illegible]

Ordering data

Ordering data	
Description of part	Type Order No.
Plug insert 2 SC, singlemode	IE-PI-2SC-SM 1962760000
Plug insert 2 SC, multimode	IE-PI-2SC-MM 1962750000
Plug insert 2 SC, POF	IE-PI-2SC-POF 1962770000
Bulkhead insert SCRJ to 2 No. SC, singlemode	IE-BI-SCRJ2SC-SM-C 1962870000
Bulkhead insert SCRJ to 2 No. SC, multimode	IE-BI-SCRJ2SC-MM-C 1964430000
Note	

Accessories

Type	Order No.

Note

LC inserts

- IP 20



LC inserts

Application:

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

features:

- IP 20 without housing
- robust design in diecast zinc
- as plug-in or bulkhead inserts

FO fabrication tools can be found in the Accessories chapter. An FO fabrication case is in preparation. Please contact us for more details.

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Plug insert 2 LC, singlemode	IE-PI-2LC-SM	1962790000
Plug insert 2 LC, multimode	IE-PI-2LC-MM	1962780000
Bulkhead insert LC duplex, singlemode	IE-BI-LCD-SM-C	1962880000
Bulkhead insert LC duplex, multimode	IE-BI-LCD-MM-C	1964420000

Note

Accessories

Type	Order No.

Outlet boxes IP 67

- IP 67
- for floor or wall mounting



Outlet boxes IP 67

Application:

The Weidmüller IP 67 outlet boxes should always be your first choice when you need to create connection options for your network in industrial environments.

Features:

- IP 67
- for floor or wall mounting
- aluminium enclosure made from AlSi 12
- robust powder-coated finish (RAL 7001)
- 2 enclosure sizes available
- in variants V1, V4 and V5
- with 1 or 2 ports
- with outlet directions straight, left and right

Variations:

- variant 4 with M16 plastic cable glands
- variants 1 and 5 with M16 nickel-plated brass cable glands

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Variant 1, 1 port, straight	IE-OM-V01M-K11-1S	1966300000
Variant 1, 2 ports, left	IE-OM-V01M-K21-2L	1966320000
Variant 1, 2 ports, right	IE-OM-V01M-K21-2R	1966310000
Variant 1, 2 ports, straight	IE-OM-V01M-K21-2S	1966330000
Variant 4, 1 port, straight	IE-OM-V04P-K11-1S	1966220000
Variant 4, 2 ports, left	IE-OM-V04P-K21-2L	1966240000
Variant 4, 2 ports, right	IE-OM-V04P-K21-2R	1966230000
Variant 4, 2 ports, straight	IE-OM-V04P-K21-2S	1966250000
Variant 5, 1 port, straight	IE-OM-V05M-K11-1S	1966260000
Variant 5, 2 ports, left	IE-OM-V05M-K21-2L	1966280000
Variant 5, 2 ports, right	IE-OM-V05M-K21-2R	1966270000
Variant 5, 2 ports, straight	IE-OM-V05M-K21-2S	1966290000

Note

Accessories

Type	Order No.

Note

RJ45 crimp plug

- Cat.6
- IP 20



RJ45 crimp plug

Application:

The Weidmüller AWG 24 plugs are useful for assembling your own installation and connecting cables.

features:

- Cat.6
- IP 20
- piercing contacts and shield connection connected in one operation
- for solid and flexible conductors from AWG 27 to AWG 24
- for cable diameters up to 7.3 mm
- 360° shield contact
- antikink bushings for retrofitting
- effective grip profile
- bending protection
- multiport-compatible

Variations:

- 1963590000: complete plug and antikink bushing in black
- 1963580000: bare plug for combining with coloured antikink bushing

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Plug with cable bushing in black	IE-PS-RJ45-TH-BK	1963590000
Plug without cable bushing	IE-PM-RJ45-TH	1963580000

Note

Accessories

	Type	Order No.
Cable bushing, white	IE-PH-RJ45-TH-VWH	1962430000
Cable bushing, grey	IE-PH-RJ45-TH-GY	1962440000
Cable bushing, orange	IE-PH-RJ45-TH-OG	1962450000
Cable bushing, blue	IE-PH-RJ45-TH-BU	1962470000
Cable bushing, yellow	IE-PH-RJ45-TH-YE	1962480000
Cable bushing, green	IE-PH-RJ45-TH-GN	1962490000
Cable bushing, black	IE-PH-RJ45-TH-BK	1962500000
Pressing tool	TT 8 RS MP 8	9202800000

Note

RJ45 plug field installation

- Cat.6
- IP 20



RJ45 plug field installation

Application:

The Weidmüller customisable AWG 22 plugs are ideal for assembling your own installation cables without the use of crimping tools.

Features:

- Cat.6
- IP 20
- 8-core customisable RJ45 plug
- for flexible conductors from AWG 26/7 to AWG 22/7
- for solid conductors from AWG 26/1 to AWG 22/1
- easy to assemble thanks to just 2 elements
- with colour coding on plug in TIA A/B/PROFINET
- for cable diameters up to 8.5 mm
- 360° shield contact
- robust diecast zinc housing

Technical data

[illegible]

Ordering data

Description of part		Type	Order No.
Plug EIA / TIA 568 A/B/PROFINET		IE-PS-RJ45-FH-BK	1963600000

Note

Accessories

		Type	Order No.
	Strain relief, white	IE-CR-IP20-RJ45-FH-WH	1963050000
	Strain relief, grey	IE-CR-IP20-RJ45-FH-GY	1963060000
	Strain relief, orange	IE-CR-IP20-RJ45-FH-OG	1963070000
	Strain relief, blue	IE-CR-IP20-RJ45-FH-BU	1963080000
	Strain relief, yellow	IE-CR-IP20-RJ45-FH-YE	1963090000
	Strain relief, green	IE-CR-IP20-RJ45-FH-GN	1963100000
Note			

FO connector

- IP 20

**FO connector****Application:**

The Weidmüller fibre-optic cable connectors should always be your first choice when assembling your own fibre-optic cables.

Features:

- IP 20
- POF, multimode or single mode
- SC, SCRJ and SC duplex are all easily realised
- mounting frame for integrating simplex connectors

Please note: SC (or SC simplex) connectors are supplied in packs of 2

Further connecting clips are available:

- in yellow and blue for SCRJ
- in blue only for SC duplex

FO fabrication tools can be found in the Accessories chapter. An FO fabrication case is in preparation. Please contact us for more details.

Technical data

Ingress protection class
Plugging cycles

IP 20
1000 plugging cycles for plugs to IEC 61754

Ordering data

Description of part	
Plug SC, singlemode	
Plug SC, multimode	
Plug SC, POF	
Plug SC duplex, singlemode	
Plug SC duplex, multimode	
Plug SCRJ, singlemode	
Plug SCRJ, multimode	
Plug SCRJ, POF	
Plug LC duplex, singlemode	
Plug LC duplex, multimode	
Clip, SC duplex, multimode, beige	
Clip, SCRJ, multimode, beige	

Type	Order No.
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
IE-PS-LCD-SM	1962980000
IE-PS-LCD-MM	1962970000
IE-PB-SCD-MM	1962900000
IE-PB-SCRJ-MM	1962890000

Note**Accessories**

Type	Order No.

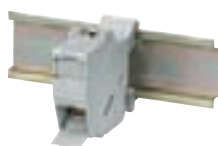
Note

Overview of Weidmüller IE-LINE RJ45 and M12

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

C

Terminal rail outlets



...for connections in switching cabinets or junction boxes

- in Cat.6
- IP 20

M12 plug-in connector



... for assembling cables in IP 67

- M12, d-coded
- IP 67

Junction box, coupler and plug



...for IP 67 connections in the field

- in Cat.6
- IP 67

Adapter and coupler



...for linking and connecting M12 cables

- M12, d-coded

Built-in flange



...for switching cabinet interfaces in IP 67

- in Cat.6
- IP 67
- various models

PCB connecting elements



... for your devices in the field of PROFINET

- M12, d-coded

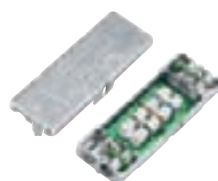
Cable splitter module



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

- in Cat.5e
- IP 20

Connecting module

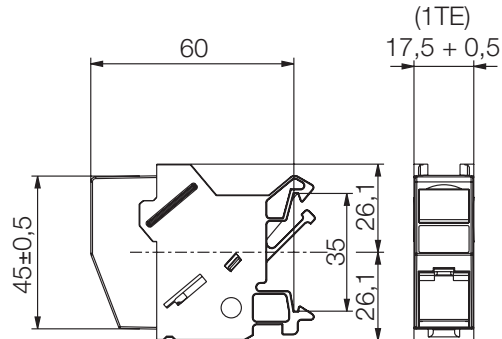


...for connecting or repairing installation lines

- in Cat.7
- IP 20

Terminal rail outlet

- Cat.6
- IP 20
- for terminal rail



Terminal rail outlet

Application:

The Weidmüller terminal rail outlets should always be your first choice in the switching cabinet when you need to...

- connect installation cables,
- join RJ45 cables,
- join fibre-optic cables with ST connectors.

Features:

- Cat.6
- IP 20
- suitable for mounting on TS 35 terminal rail
- 1 TE pitch dimension to DIN 43880
- viewing window for labelling
- housing made from PA66, V-0, in light grey (RAL 7035)
- tested for 750 plugging cycles with RJ45 plugs to IEC 60603-7

Variations:

- 8808360000: RJ45 module insert for connecting conductors from AWG 26 to AWG 22; colour coding to EIA/TIA 568 A
- 8891980000: ditto, but colour coding to EIA/TIA 568 B
- 8879050000: RJ45 to RJ45 coupler insert
- 8808340000: ST to ST coupler insert

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
RJ45 module EIA/TIA 568 A	IE-XM-RJ45/IDC	8808360000
RJ45 module EIA/TIA 568 A	IE-XM-RJ45/IDC-B	8891980000
RJ45-RJ45 coupler	IE-XM-RJ45/RJ45	8879050000
ST-ST coupler	IE-XM-ST/ST	8808340000

Note

Accessories

Type	Order No.
IE-DM	8813500000

Note

Junction box, cable coupler, plug

- Cat.6
- IP 67



Junction box, cable coupler, plug

Application:

The Weidmüller IP 67 connecting plugs enable you to connect your Industrial Ethernet cables in tough industrial environments.

Features:

- Cat.6
- IP 67
- for mounting on suitable surfaces or also for laying loose
- 360° shield contact
- colour coding to EIA/TIA 568 A
- housing made from PA66, V-0, in light grey (RAL7035)
- tested for 750 plugging cycles to IEC 60603-7

Variations:

- 8808370000: Junction box for fixed wall mounting, IDC terminal for conductors (AWG 26 to AWG 22)
- 8813090000: Cable coupler for laying loose, IDC terminal for conductors (AWG 26 to AWG 22)
- 8808380000: Plug for connecting to junction box or cable coupler, for connecting flexible conductors (AWG 27/7 to AWG 24/7)

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Junction box	IE-S-IP67	8808370000
Cable coupler	IE-C-IP67	8813090000
Plug	IE-P-IP67	8808380000

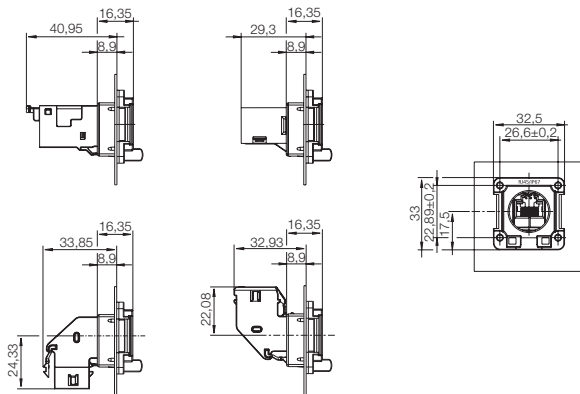
Note

Accessories

Pressing tool	Type	Order No.
	TT 8 RS MP 8	9202800000
Note		

Built-in flange

- Cat.6
- IP 67



Built-in flange

Application:

Weidmüller built-in flanges should always be your first choice when you need an IP 67 connection on a switching cabinet or junction boxes.

Features:

- Cat.6
- IP 67
- housing made from PA66, V-0, in light grey (RAL 7035)
- 360° shield contact
- tested for 750 plugging cycles with RJ45 plugs to IEC 60603-7

Variations:

- 8808440000: RJ45 module insert for connecting conductors from AWG 26 to AWG 22; colour coding to EIA/TIA 568 A
- 8808450000: RJ45 to RJ45 coupler insert, straight version
- 8829450000: RJ45 to RJ45 coupler insert, 90° down version
- 8829440000: RJ45 to RJ45 coupler insert, 90° up version
- 8892670000: USB to USB coupler insert

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
RJ45 module flange, straight	IE-XM-RJ45/IDC-IP67	8808440000
Coupling flange, straight	IE-XM-RJ45/RJ45-IP67	8808450000
Coupling flange, 90° down	IE-XM-6D-RJ45/RJ45-IP67	8829450000
Coupling flange, 90° up	IE-XM-6U-RJ45/RJ45-IP67	8829440000
USB flange	IE-XM-USB/USB-IP67	8892670000

Note

Accessories

Type	Order No.

Note

- Cat.5
- IP 20



Application:

If you need an adapter that enables you to use an 8-core installation cable for two 4-core services, then the Weidmüller cable splitting module should always be your first choice.

Features:

- Cat.5
- IP 20
- housing made from shockproof ABS plastic in light grey
- narrow design enables mounting side by side in the patch panel

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Cable splitter module	IE-CSM 1 Set	8808400000

Note

Supplied in packs of 2 pcs

Accessories

Type	Order No.

Note

Connection module

- Cat.7
- IP 20



Connection modul

Application:

The Weidmüller connection module is always useful when you have to repair or lengthen a broken installation line in a confined space without any reserves of cable.

Features:

- Cat.7
- IP 20
- fully shielded metal housing, grey
- cable can be fed from 1 or 2 sides
- LSA + IDC connection on both sides
- captive 360° shield connection
- with separate strain relief
- wall or floor mounting

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Connection module	IE-CCM	8808410000

Note

Accessories

Type	Order No.
PUNCH DOWN TOOL PDT	9013970000

Note

M12 connection system

Description

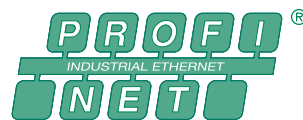
Besides the traditional RJ45 pin arrangement, Industrial Ethernet also makes use of connections with an M12, d-coded arrangement. This type of connection is defined in ISO IEC 61076-2-101.

The benefits for you

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

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.



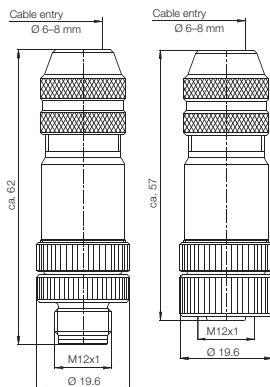
Features

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



M12 plug-in connectors

- Cat.5
- IP 67



M12 plug-in connectors

Application:

Weidmüller M12 plug-in connectors are suitable for assembling in the field and therefore can be used to assemble 4-core Ethernet cables directly in situ:

- in the field
- without tools
- fast
- easy

Features:

- Cat.5
- M12, d-coded
- IP 67
- male and female
- straight and 90°

Variations:

- 1892120001: pin version, straight, brass, nickel-plated, tension clamp connection
- 1784740002: socket version, straight, brass, nickel-plated, tension-clamp connection
- 1920700001: pin version, straight, stainless steel, tension clamp connection, IP 69k class of protection
- 1803930001: pin version, 90°, brass, nickel-plated, tension clamp connection

Technical specification

[illegible]

Ordering data

	Type	Order No.
Plug, straight, brass	SAISM-4/8S-M12 4P D-ZF	1892120001
Socket, straight, brass	SAIBM-4/8S-M12 4P D-ZF	1784740002
Plug, straight, stainless steel	SAIS 5/9-VA D-COD	1920700001
Plug, 90°, brass	SAISW-4/8S-M12 4P D-ZF	1803930001

Note

Accessories

Type	Order No.

Note

Weidmüller IE-LINE M12

M12 adapters and coupler

- Cat.5
- IP 67



M12 adapters and coupler

Application:

The Weidmüller M12 adapters and coupler are useful whenever you wish to join two M12 cables or connect an M12 cable to the switching cabinet.

Features:

- Cat.5
- class of protection IP 67 in the plugged condition
- Adapter: M12 socket to RJ45 socket
- Coupler: M12 socket to M12 socket

Variations:

- 8901630000: 90° adapter from M12 socket to RJ45 socket, for fitting to wall of switching cabinet
- 8901620000: straight adapter from M12 socket to RJ45 socket, for fitting to wall of switching cabinet
- 8901640000: straight coupler from M12 socket to M12 socket, for mounting on suitable surfaces or also for laying loose

Technical data

Category
Ingress protection class

Cat.5 / Class D
IP 67

Ordering data

Description of part
Adapter, 90°
Adapter, straight
Coupler

Type	Order No.
IE-M12-Adap a	8901630000
IE-M12-Adap s	8901620000
IE-M12-Coup	8901640000

Note

Accessories

Type	Order No.

Note

M12 PCB connecting element

- Cat.5
- for device installation



M12 PCB connecting element

Application:

The Weidmüller PCB connecting element are designed for the devices you wish to use in the field. They enable the connection of M12 plugs with D-coded pin arrangement.

Features:

- Cat.5
- class of protection IP 20 in the unplugged condition
- reflow-compatible

Variations:

- 8902810000: M12 socket for mounting directly on the PCB
- 8902820000: M12 socket specially designed for an additional mechanical clip fitting to the PCB

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Connecting element	IE-M12-PCBCE	8902810000
Connecting element, clip-on	IE-M12-PCBCEpanel	8902820000

Note	
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Accessories

Type	Order No.

Overview of copper cables

Copper cables should be your first choice for applications in offices and harsh industrial environments.

Advantages:

- available in many different variations and lengths
- robust
- easy to assemble
- RJ45 connections are the most popular

Industrial installation cables, horizontal cables



...for stationary, permanent installation in cable ducts and cable trays

- Cat.5 or Cat.7
- available for PROFINET as well
- with PUR or PVC sheathing

Industrial patch cables



...not only for office applications, but also in switching cabinets for industrial applications

- Cat.6
- with LSZH sheathing – low smoke and zero halogens
- in straight and crossover versions

Industrial connecting cables



...for flexible installations in machines and plants in industrial applications and difficult environments

- Cat.5 or Cat.7
- available for PROFINET as well
- with PUR or PVC sheathing

Industrial system cables



...pre-assembled cables for flexible installations in machines and plants in industrial applications and difficult environments

- Cat.5 or Cat.6
- with PUR sheathing

Industrial trailing cables



...for applications subjected to constant movement

- Cat.5
- available for PROFINET as well
- with PUR sheathing

Ordering data for copper cables

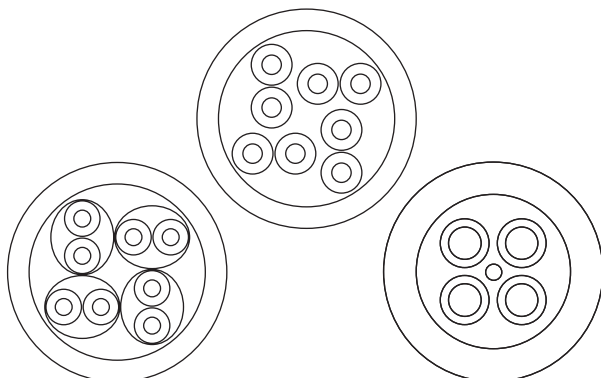
Type	Cat./Class	Plug-in connector		Length						
		left	right	100 m	500 m	1000 m				
Industrial installation cables				100 m	500 m	1000 m				
IE-5IC4x2xAWG24/1-PUR	Cat.5	-	-	8813160000	8843640000	8843650000				
IE-5IC4x2xAWG24/1-PVC	Cat.5	-	-	8813150000	8843620000	8843630000				
IE-7IC4x2xAWG23/1-PUR	Cat.7	-	-	8813140000	8843600000	8843610000				
IE-7IC4x2xAWG23/1-PVC	Cat.7	-	-	8813130000	8843580000	8843590000				
IE-C5AS4Vxx	Cat.5 PROFINET	-	-	8899000000						
Industrial connecting cables				100 m						
IE-5CC4x2xAWG24/1-PUR	Cat.5	-	-	8813200000						
IE-5CC4x2xAWG24/1-PVC	Cat.5	-	-	8813190000						
IE-7CC4x2xAWG23/1-PUR	Cat.7	-	-	8813180000						
IE-7CC4x2xAWG23/1-PVC	Cat.7	-	-	8813170000						
IE-C5DS4Vxx	Cat.5 PROFINET	-	-	8898990000						
Industrial trailing cables				100 m	1 m	2 m	5 m	10 m	15 m	20 m
IE-5TC4x2xAWG26/7-PUR	Cat.5	-	-	8813210000						
IE-C5ED8UGxxxxA46A46-X	Cat.5	RJ45-IP67	RJ45-IP67		8829710000	8829720000	8829730000	8829740000	8829750000	8829760000
IE-C5DD4Uxx	Cat.5 PROFINET	-	-	8899010000						
					1.5 m	3 m	5 m	10 m		
IE-C5AS4UGxxxxMCSMCS-X	Cat.5	M12	M12		8877610015	8877610030	8877610050	8877610100		
Industrial patch cables				0.5 m	1 m	2 m	3 m	4 m	5 m	10 m
IE-C6FP8LDxxxxA40A40-D	Cat.6	RJ45-IP20	RJ45-IP20	8808830000	8808840000	8808850000	8808860000	8892570000	8808870000	8808880000
				20 m	30 m	40 m	50 m	60 m	70 m	80 m
				8867440000	8867460000	8867470000	8867480000	8867700000	8867490000	8867500000
				0.5 m	1 m	2 m	3 m	4 m	5 m	10 m
IE-C6FP8LDxxxxC40C40-Y	Cat.6	RJ45-IP20	RJ45-IP20	8818620000	8829460000	8818630000	8829470000		8829480000	8829490000
Industrial system cables				1 m	2 m	5 m	10 m	15 m	90 m	
IE-C5ES8UGxxxxA40A40-E	Cat.5	RJ45-IP20	RJ45-IP20	8829560000	8829590000	8829620000	8829650000	8829680000	8894650000	
IE-C6ES8UGxxxxA40A40-E	Cat.6	RJ45-IP20	RJ45-IP20	8829500000	8815050000	8815080000	8815110000	8829530000		
IE-C5ES8UGxxxxA46A40-X	Cat.5	RJ45-IP20	RJ45-IP67	8829570000	8829600000	8829630000	8829660000	8829690000		
IE-C6ES8UGxxxxA46A40-X	Cat.6	RJ45-IP20	RJ45-IP67	8829510000	8815060000	8815090000	8815120000	8829540000		
IE-C5ES8UGxxxxA46A46-X	Cat.5	RJ45-IP67	RJ45-IP67	8829580000	8829610000	8829640000	8829670000	8829700000		
IE-6CC26/7xxxxU P67-P67	Cat.6	RJ45-IP67	RJ45-IP67	8829520000	8815070000	8815100000	8815130000	8829550000		



Copper cables

Installation cable

- Cat.5 or Cat.7
- in PUR or PVC
- in lengths from 100 to 1000 m



Installation cable

Application:

Weidmüller installation cables should always be your first choice when you need to lay stationery cables in cable ducts and cable trays:

- robust
- easy to customise
- in many variants and lengths

Features:

- single-core solid conductor in green
- sheathing diameter: 6.3 - 6.7 mm (Cat.7: 8.2 mm)
- operating temperature: -40°C ... +75°C (PUR); -25°C ... +70°C (PVC)
- PUR sheathing: zero halogens to IEC 60754-2, with high abrasion resistance
- customisable in lengths from 100 to 1000 m

Variations:

Cat.5 / Class D Ethernet:

- cross-section: 4 x 2 x AWG 24/1
- copper diameter: 0.5 mm
- wire insulation diameter: 1.0 mm
- conductor configuration: SF/UTP

Cat.5 / Class D PROFINET:

- cross-section: 2 x 2 x AWG 22/1
- copper diameter: 0.64 mm
- wire insulation diameter: 1.5 mm

Cat.7 / Class F:

- cross-section: 4 x 2 x AWG 23/1
- copper diameter: 0.58 mm
- wire insulation diameter: 1.4 mm
- conductor configuration: S/FTP

Technical data

Sheathing colour

green (RAL 6018)

Ordering data

Description of part	Type	Order No.
Cat.7, PVC, 500 m	IE-7IC4x2xAWG23/1-PVC05	8843580000
Cat.5 Ethernet, PUR, 500 m	IE-5IC4x2xAWG24/1-PUR05	8843640000
Cat.5 Ethernet, PUR, 1000 m	IE-5IC4x2xAWG24/1-PUR10	8843650000
Cat.7, PUR, 1000 m	IE-7IC4x2xAWG23/1-PUR10	8843610000
Cat.7, PUR, 500 m	IE-7IC4x2xAWG23/1-PUR05	8843600000
Cat.5 Ethernet, PVC, 500 m	IE-5IC4x2xAWG24/1-PVC05	8843620000
Cat.5 Ethernet, PVC, 1000 m	IE-5IC4x2xAWG24/1-PVC10	8843630000
Cat.7, PVC, 1000 m	IE-7IC4x2xAWG23/1-PVC10	8843590000
Cat.7, PUR, 100 m	IE-7IC4x2xAWG23/1-PUR	8813140000
Cat.5 Ethernet, PVC, 100 m	IE-5IC4x2xAWG24/1-PVC	8813150000
Cat.7, PVC, 100 m	IE-7IC4x2xAWG23/1-PVC	8813130000
Cat.5 Ethernet, PUR, 100 m	IE-5IC4x2xAWG24/1-PUR	8813160000
Cat.5 PROFINET, PVC, 100 m	IE-C5AS4V1000	8899000000

Note

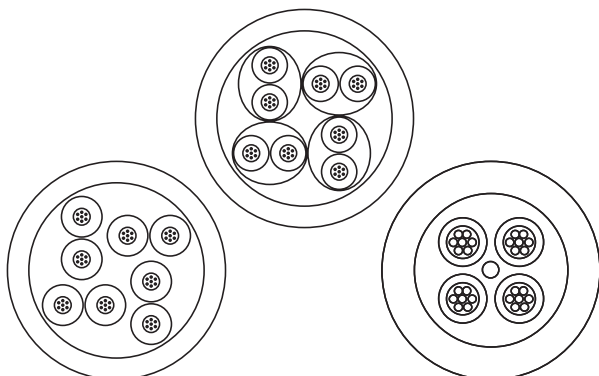
Accessories

	Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001
Stripping tool	IE-CST	9204350000
Sheathing stripper	AM 12	9030060000

Note

Connecting cable

- Cat.5 or Cat.7
- in PUR or PVC
- in 100 m lengths



Connecting cable

Application:

Weidmüller connecting cables should always be your first choice when you need connections suitable for occasional movement in machines and plants in tough industrial environments:

- robust
- flexible
- easy to customise

Features:

- 7-core stranded conductor in green
- PUR sheathing: zero halogens to IEC 60754-2, with high abrasion resistance
- operating temperature: -40°C ... +75°C (PUR); -25°C ... +75°C (PVC)
- customisable in 100 m lengths

Variations:

Cat.5 / Class D Ethernet:

- conductor configuration: SF/UTP
- cross-section: 4 x 2 x AWG 26/7
- copper diameter: 0.48 mm
- wire insulation diameter: 0.98 mm
- sheathing diameter: 5.8 - 6.0 mm

Cat.5 / Class D PROFINET:

- cross-section: 2 x 2 x AWG 22/7
- copper diameter: 0.75 mm
- wire insulation diameter: 1.5 mm
- sheathing diameter: 6.3 - 6.7 mm

Cat.7 / Class F:

- conductor configuration: S/FTP
- cross-section: 4 x 2 x AWG 26/7
- copper diameter: 0.48 mm
- wire insulation diameter: 0.98 mm
- sheathing diameter: 6.1 - 6.7 mm

Technical data

Sheathing colour

green (RAL 6018)

Ordering data

Description of part

Cat.5 Ethernet, PVC, 100 m
Cat.7, PUR, 100 m
Cat.5 Ethernet, PUR, 100 m
Cat.7, PVC, 100 m
Cat.5 PROFINET, PVC, 100 m

Type	Order No.
IE-5CC4x2xAWG26/7-PVC	8813190000
IE-7CC4x2xAWG26/7-PUR	8813180000
IE-5CC4x2xAWG26/7-PUR	8813200000
IE-7CC4x2xAWG26/7-PVC	8813170000
IE-C5DS4V1000	8898990000

Note

Accessories

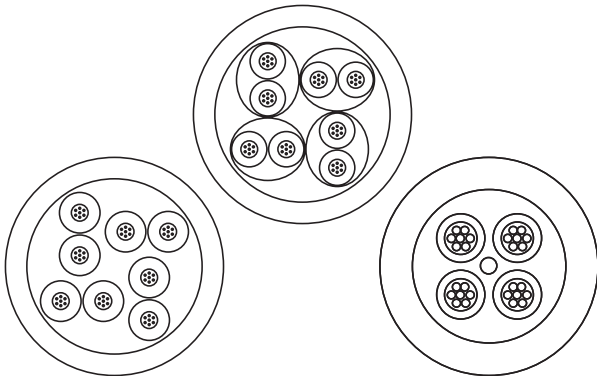
Note

Type	Order No.
------	-----------

Copper cables

Trailing cable

- Cat.5
- in PUR



Trailing cable

Application:

The Weidmüller cables for moving carriers are ideal for situations where lines are constantly or frequently in movement in industrial applications, e.g. in moving cable carriers. They are:

- robust
- flexible
- easy to customise or can be supplied prefabricated

Features:

- 7-core stranded conductor
- PUR sheathing, green (RAL 6018)
- zero halogens and high abrasion resistance
- customisable in 100 m lengths
- supplied prefabricated with RJ45 plugs in lengths from 1 to 20 m
- supplied prefabricated with M12 plugs in lengths from 1.5 to 10 m

Variations:

Cat.5 / Class D Ethernet:

- conductor configuration: SF/UTP
- cross-section: 4 x 2 x AWG 26/7
- copper diameter: 0.5 mm
- wire insulation diameter: 1.0 mm
- sheathing diameter: 6.8 mm
- bending radius: 7.5 x diameter (repetitive)
- operating temperature: -40°C ... +80°C

Cat.5 / Class D PROFINET:

- cross-section: 2 x 2 x AWG 22/7
- copper diameter: 0.75 mm
- wire insulation diameter: 1.5 mm
- sheathing diameter: 6.3 - 6.7 mm
- operating temperature: -40°C ... +70°C

Technical data

Cladding material	PUR
Sheathing colour	green (RAL 6018)
Free from halogens	to IEC 60754-2
Abrasion resistance	very good

Ordering data

Description of part	Type	Order No.
Cat.5 Ethernet, PUR, 100 m	IE-5TC4x2xAWG26/7-PUR	8813210000
Cat.5 PROFINET, PUR, 100 m	IE-C5DD4U1000	8899010000
Cat.5 Ethernet, PUR, RJ45-RJ45, 1 m	IE-C5ED8UG0010A46A46-X	8829710000
Cat.5 Ethernet, PUR, RJ45-RJ45, 2 m	IE-C5ED8UG0020A46A46-X	8829720000
Cat.5 Ethernet, PUR, RJ45-RJ45, 5 m	IE-C5ED8UG0050A46A46-X	8829730000
Cat.5 Ethernet, PUR, RJ45-RJ45, 10 m	IE-C5ED8UG0100A46A46-X	8829740000
Cat.5 Ethernet, PUR, RJ45-RJ45, 15 m	IE-C5ED8UG0150A46A46-X	8829750000
Cat.5 Ethernet, PUR, RJ45-RJ45, 20 m	IE-C5ED8UG0200A46A46-X	8829760000
Cat.5 PROFINET, PUR, RJ45-RJ45, 1.5 m	IE-C5AS4UG0015MCSMCS-X	8877610015
Cat.5 PROFINET, PUR, RJ45-RJ45, 3 m	IE-C5AS4UG0030MCSMCS-X	8877610030
Cat.5 PROFINET, PUR, RJ45-RJ45, 5 m	IE-C5AS4UG0050MCSMCS-X	8877610050
Cat.5 PROFINET, PUR, RJ45-RJ45, 10 m	IE-C5AS4UG0100MCSMCS-X	8877610100

Note

Accessories

	Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001
Stripping tool	IE-CST	9204350000
Sheathing stripper	AM 12	9030060000

Note

Patch cable

- Cat.6
- IP 20
- in LSZH



Patch cable

Application:

Weidmüller patch cables should always be your first choice for fast copper connections - not only in the office, but also in industrial switching cabinets:

- supplied prefabricated
- shown here in the straight version
- available in various lengths

Features:

- 7-core flexible stranded conductor
- Cat.6
- IP 20
- cross-section: 4 x 2 x AWG 27/7
- copper diameter: 0.43 mm
- wire insulation diameter: 1.04 mm
- conductor configuration: S/FTP
- sheathing diameter: 5.5 - 5.9 mm
- bending radius: 50 mm (repetitive); 25 mm (once only)
- sheathing in LSZH: low-smoke, zero halogens
- sheathing colour: light grey (RAL 7035)
- operating temperature: -20°C ... +60°C
- storage temperature: 0°C ... 50°C
- installation temperature: 0°C ... 50°C
- prefabricated
- in lengths from 0.5 to 80 m

Technical data

Category	Cat.6
Cross-section	4*2*AWG 27/7 - 4*2*0,1 mm ²
Diameter of copper/core	0.430 mm
Wire insulation diameter	1.04 mm
Plug left/Plug right	RJ45 IP20/RJ45 IP20
Shielding	S/FTP
Cladding diameter, min.-max.	5.5 mm - 5.9 mm
Cladding material	LSZH
Sheathing colour	light grey (RAL 7035)
Operating temperature, min.-max.	-20 °C ... 60 °C

Ordering data

Description of part	Type	Order No.
0.5 m	IE-C6FP8LD0005A40A40-D	8808830000
1 m	IE-C6FP8LD0010A40A40-D	8808840000
2 m	IE-C6FP8LD0020A40A40-D	8808850000
3 m	IE-C6FP8LD0030A40A40-D	8808860000
4 m	IE-C6FP8LD0040A40A40-D	8892570000
5 m	IE-C6FP8LD0050A40A40-D	8808870000
10 m	IE-C6FP8LD0100A40A40-D	8808880000
20 m	IE-C6FP8LD0200A40A40-D	8867440000
30 m	IE-C6FP8LD0300A40A40-D	8867460000
40 m	IE-C6FP8LD0400A40A40-D	8867470000
50 m	IE-C6FP8LD0500A40A40-D	8867480000
60 m	IE-6PC600	8867700000
70 m	IE-C6FP8LD0700A40A40-D	8867490000
80 m	IE-C6FP8LD0800A40A40-D	8867500000

Note

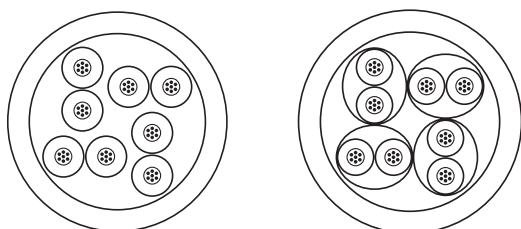
Accessories

	Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001

Note

System cable IP 20-IP 20

- in Cat.5 or Cat.6
- in PUR
- IP 20 to IP 67



System cable IP 20-IP 20

Application:

Weidmüller system cables are prefabricated connecting cables. They can be used in demanding industrial applications wherever cables are subjected to occasional movements. System cables with IP 20 plugs are best suited to applications in switching cabinets or junction boxes. They are:

- robust
- flexible
- supplied prefabricated

Features:

- 7-core stranded conductor
- cross-section: 4 x 2 x AWG 26/7
- copper diameter: 0.48 mm
- wire insulation diameter: 0.98 mm
- sheathing diameter: 6.1 - 6.7 mm
- PUR sheathing, green (RAL 6018)
- bending radius: 10 x diameter (repetitive), 5 x diameter (once only)
- zero halogens and high abrasion resistance
- operating temperature: -40°C ... +75°C
- supplied prefabricated in lengths from 1 to 90 m

Variations:

Cat.5 / Class D:

- conductor configuration: SF/UTP

Cat.6 / Class E

- conductor configuration: S/FTP

Technical data

Cross-section	4*2*AWG 26/7 - 4*2*0,128 mm ²
Diameter of copper/core	0,480 mm
Wire insulation diameter	0,98 mm
Plug left/Plug right	RJ45 IP20/RJ45 IP20
Cladding diameter, min.-max.	6.1 mm -6.7 mm
Cladding material	PUR
Sheathing colour	green (RAL 6018)
Operating temperature, min.-max.	-40 °C ... 75 °C

Ordering data

Description of part	Type	Order No.
Cat.5, 1 m	IE-C5ES8UG0010A40A40-E	8829560000
Cat.5, 2 m	IE-C5ES8UG0020A40A40-E	8829590000
Cat.5, 5 m	IE-C5ES8UG0050A40A40-E	8829620000
Cat.5, 10 m	IE-C5ES8UG0100A40A40-E	8829650000
Cat.5, 15 m	IE-C5ES8UG0150A40A40-E	8829680000
Cat.5, 90 m	IE-C5ES8UG0900A40A40-E	8894650000
Cat.6, 1 m	IE-C6ES8UG0010A40A40-E	8829500000
Cat.6, 2 m	IE-C6ES8UG0020A40A40-E	8815050000
Cat.6, 5 m	IE-C6ES8UG0050A40A40-E	8815080000
Cat.6, 10 m	IE-C6ES8UG0100A40A40-E	8815110000
Cat.6, 15 m	IE-C6ES8UG0150A40A40-E	8829530000

Note

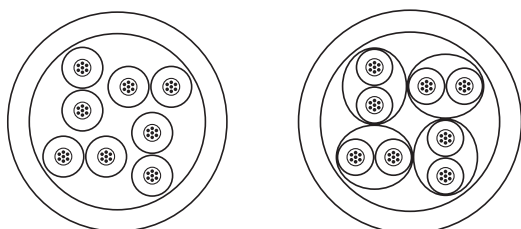
Accessories

Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0 1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0 1740870001

Note

System cable IP 67-IP 67

- in Cat.5 or Cat.6
- in PUR
- IP 67



System cable IP 67-IP 67

Application:

Weidmüller system cables are prefabricated connecting cables. They can be used in demanding industrial applications wherever cables are subjected to occasional movements. System cables with IP 67 plugs form the ideal connection between devices on the machine or plant. They are:

- robust
- flexible
- supplied prefabricated

Features:

- 7-core stranded conductor
- cross-section: 4 x 2 x AWG 26/7
- copper diameter: 0.48 mm
- wire insulation diameter: 0.98 mm
- sheathing diameter: 6.1 - 6.7 mm
- PUR sheathing, green (RAL 6018)
- bending radius: 10 x diameter (repetitive), 5 x diameter (once only)
- zero halogens and high abrasion resistance
- operating temperature: -40°C ... +75°C
- supplied prefabricated in lengths from 1 to 15 m

Variations:

Cat.5 / Class D:

- conductor configuration: SF/UTP

Cat.6 / Class E:

- conductor configuration: S/FTP

Technical data

Cross-section	4*2*AWG 26/7 - 4*2*0,128 mm ²
Diameter of copper/core	0.480 mm
Wire insulation diameter	0.98 mm
Plug left/Plug right	RJ45 IP67 V 06/RJ45 IP67 V 06
Cladding diameter, min.-max.	6.1 mm - 6.7 mm
Cladding material	PUR
Sheathing colour	green (RAL 6018)
Operating temperature, min.-max.	-40 °C ... 75 °C

Ordering data

Description of part	Type	Order No.
Cat.5, 1 m	IE-C5ES8UG0010A46A46-X	8829580000
Cat.5, 2 m	IE-C5ES8UG0020A46A46-X	8829610000
Cat.5, 5 m	IE-C5ES8UG0050A46A46-X	8829640000
Cat.5, 10 m	IE-C5ES8UG0100A46A46-X	8829670000
Cat.5, 15 m	IE-C5ES8UG0150A46A46-X	8829700000
Cat.6, 1 m	IE-6CC26/7-10U P67-P67	8829520000
Cat.6, 2 m	IE-C6ES8UG0020A46A46-X	8815070000
Cat.6, 5 m	IE-C6ES8UG0050A46A46-X	8815100000
Cat.6, 10 m	IE-C6ES8UG0100A46A46-X	8815130000
Cat.6, 15 m	IE-C6ES8UG0150A46A46-X	8829550000

Note

Accessories

	Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001

Note

Overview of fibre-optic (FO) cables

Fibre-optic (FO) cables should be your first choice for applications in tough industrial environments when you...

- need long transmission paths (up to 120 km!)
- need to take account of EMC issues
- must ensure electrical isolation in the case of potential differences

Industrial FO connecting cables



...for flexible installations in machines and plants in industrial applications and difficult environments

- multimode glass fibre
- breakout cable
- cable by the metre for assembling your own connecting cables

Industrial FO trailing cables



...for applications subjected to constant movement

- multimode glass fibre
- breakout cable
- cable by the metre or pre-assembled cables

Industrial FO patch cables



...for use in industrial switching cabinets or junction boxes

- multimode glass fibre
- Zipcord cable

Industrial FO adapter cables



...for linking ST and SC connections

- multimode glass fibre
- Zipcord cable

Industrial FO system cables



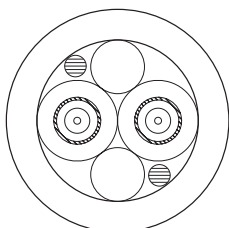
...for flexible installations in machines and plants in industrial applications and difficult environments

- multimode glass fibre
- breakout cable
- pre-assembled cables

Ordering data for FO cables

Type	Breakout/ Zipcord	Plug-in connector		Length						
		left	right							
Industrial FO connecting cables				100 m	1000 m					
IE-FOB50S	Breakout	-	-	8876281000	8876289999					
IE-FOB62S	Breakout	-	-	8876321000	8876329999					
Industrial FO trailing cables				100 m	1000 m	1 m	3 m	5 m	10 m	
IE-FOB50D	Breakout	-	-	8876331000	8876339999					
IE-FOB62D	Breakout	-	-	8876341000	8876349999					
IE-FM5D2V0xxxxMSD0SD0X	Breakout	SC Duplex	SC Duplex			8876430010	8876430030	8876430050	8876430100	
IE-FM6D2V0xxxxMSD0SD0X	Breakout	SC Duplex	SC Duplex			8876440010	8876440030	8876430050	8876440100	
IE-FM5D2V0xxxxMST0ST0X	Breakout	ST	ST			8876450010	8876450030	8876450050	8876450100	
IE-FM6D2V0xxxxMST0ST0X	Breakout	ST	ST			8876460010	8876460030	8876460050	8876460100	
Industrial FO patch cables				1 m	2 m	3 m	5 m	10 m		
IE-FM5Z2V0xxxxMSD0SD0X	Zipcord	SC Duplex	SC Duplex	8813300000	8813310000	8813320000	8876350050	8876350100		
IE-FM6Z2V0xxxxMSD0SD0X	Zipcord	SC Duplex	SC Duplex	8813330000	8813340000	8813350000	8876360050	8876360100		
IE-FM5Z2V0xxxxMST0ST0X	Zipcord	ST	ST	8813240000	8813250000	8813260000	8876370050	8876370100		
IE-FM6Z2V0xxxxMST0ST0X	Zipcord	ST	ST	8813270000	8813280000	8813290000	8876380050	8876380100		
Industrial FO adapter cables				2 m						
IE-FM5Z2V0xxxxMST0SD0X	Zipcord	SC Duplex	ST	8813390000						
IE-FM6Z2V0xxxxMST0SD0X	Zipcord	SC Duplex	ST	8813400000						
Industrial FO system cables				10 m	50 m	100 m				
IE-FM5B2V0xxxxMSD0SD0X	Breakout	SC Duplex	SC Duplex	8813450000	8876390500	8876391000				
IE-FM6B2V0xxxxMSD0SD0X	Breakout	SC Duplex	SC Duplex	8813460000	8876400500	8876401000				
IE-FM5B2V0xxxxMST0ST0X	Breakout	ST	ST	8813430000	8876410500	8876411000				
IE-FM6B2V0xxxxMST0ST0X	Breakout	ST	ST	8813440000	8876420500	8876421000				



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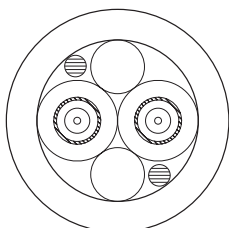
Ordering data	
Description of part	Type Order No.
Core 50 µm, 100 m	IE-FOB50S100.0 8876281000
Core 50 µm, 1000 m	IE-FOB50S999.9 8876289999
Core 62.5 µm, 100 m	IE-FOB62S100.0 8876321000
Core 62.5 µm, 1000 m	IE-FOB62S999.9 8876329999

Note

		Type	Order No.
	Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
	Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001
Note			

FO cable for moving carrier, by the metre

- multimode glass fibre
- customisable



FO cable for moving carrier, by the metre

Application:

The Weidmüller FO cables for moving carriers are ideal for situations where lines are constantly in movement, e.g. in moving cable carriers. They should always be your first choice for:

- long transmission paths without intermediate devices for boosting the signal,
- high EMC requirements,
- potential differences where the use of copper cables would require electrical isolation.

Features:

- FO breakout cable
- multimode glass fibre
- 50 and 62.5 μm core diameters
- customisable
- in 100 and 1000 m lengths

FO fabrication tools can be found in the Accessories chapter. An FO fabrication case is in preparation. Please contact us for more details.

Technical data

[illegible]

Ordering data

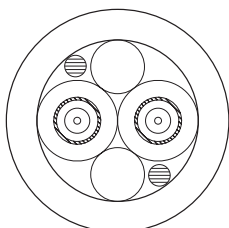
Ordering data	
Description of part	Type Order No.
Core 50 µm, 100 m	IE-FOB50D100.0 8876331000
Core 50 µm, 1000 m	IE-FOB50D999.9 8876339999
Core 62.5 µm, 100 m	IE-FOB62D100.0 8876341000
Core 62.5 µm, 1000 m	IE-FOB62D999.9 8876349999

Note

Accessories

Accessories		Type	Order No.
	Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
	Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001

Note

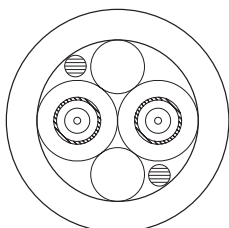
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Description of part		Type	Order No.
	Core 50 µm, 1 m	IE-FM5D2VO0001MSD0SD0X	8876430010
	Core 50 µm, 3 m	IE-FM5D2VO0003MSD0SD0X	8876430030
	Core 50 µm, 5 m	IE-FM5D2VO0005MSD0SD0X	8876430050
	Core 50 µm, 10 m	IE-FM5D2VO0010MSD0SD0X	8876430100
	Core 62.5 µm, 1 m	IE-FM6D2VO0001MSD0SD0X	8876440010
	Core 62.5 µm, 3 m	IE-FM6D2VO0003MSD0SD0X	8876440030
	Core 62.5 µm, 5 m	IE-FM6D2VO0005MSD0SD0X	8876440050
	Core 62.5 µm, 10 m	IE-FM6D2VO0010MSD0SD0X	8876440100
Note			

		Type	Order No.
	Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
	Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001
Note			

Trailing cable ST

- multimode glass fibre
- ST connector



Trailing cable ST

Application:

The Weidmüller FO cables for moving carriers are ideal for situations where lines are constantly in movement, e.g. in moving cable carriers. They should always be your first choice for:

- long transmission paths without intermediate devices for boosting the signal,
- high EMC requirements,
- potential differences where the use of copper cables would require electrical isolation.

Features:

- FO breakout cable
- multimode glass fibre
- 50 and 62.5 μm core diameters
- both ends supplied complete with ST connectors
- in lengths from 1 to 10 m

Technical data

[illegible]

Ordering data

Description of part		Type	Order No.
	Core 50 µm, 1 m	IE-FM5D2VO0001MST0ST0X	8876450010
	Core 50 µm, 3 m	IE-FM5D2VO0003MST0ST0X	8876450030
	Core 50 µm, 5 m	IE-FM5D2VO0005MST0ST0X	8876450050
	Core 50 µm, 10 m	IE-FM5D2VO0010MST0ST0X	8876450100
	Core 62.5 µm, 1 m	IE-FM6D2VO0001MST0ST0X	8876460010
	Core 62.5 µm, 3 m	IE-FM6D2VO0003MST0ST0X	8876460030
	Core 62.5 µm, 5 m	IE-FM6D2VO0005MST0ST0X	8876460050
	Core 62.5 µm, 10 m	IE-FM6D2VO0010MST0ST0X	8876460100

Note

Accessories

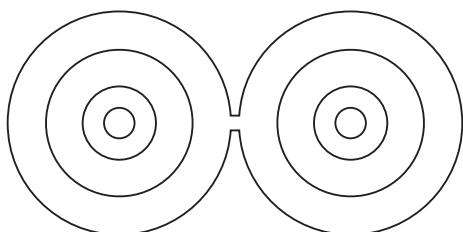
Accessories		Type	Order No.
	Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
	Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001

Note

Fibre optic cables

SC patch cable

- multimode glass fibre
- SC duplex connectors



SC patch cable

Application:

Use the Weidmüller FO patch cables in switching cabinets or junction boxes, in fact wherever you need to set up short transmission paths with fibre-optic technology in a protected environment.

Merkmale:

- PVC Zipcord cable
- multimode glass fibre
- 50 and 62.5 μm core diameters
- SC duplex connectors
- bending radius 60 mm (repetitive); 30 mm (once only)
- in lengths from 1 to 10 m

Technical data

[illegible]

Ordering data

Description of part	Type	Order No.
Core 50 μm , 1 m	IE-FM5Z2VO0001MSD0SD0X	8813300000
Core 50 μm , 2 m	IE-FM5Z2VO0002MSD0SD0X	8813310000
Core 50 μm , 3 m	IE-FM5Z2VO0003MSD0SD0X	8813320000
Core 50 μm , 5 m	IE-FM5Z2VO0005MSD0SD0X	8876350050
Core 50 μm , 10 m	IE-FM5Z2VO0010MSD0SD0X	8876350100
Core 62.5 μm , 1 m	IE-FM6Z2VO0001MSD0SD0X	8813330000
Core 62.5 μm , 2 m	IE-FM6Z2VO0002MSD0SD0X	8813340000
Core 62.5 μm , 3 m	IE-FM6Z2VO0003MSD0SD0X	8813350000
Core 62.5 μm , 5 m	IE-FM6Z2VO0005MSD0SD0X	8876360050
Core 62.5 μm , 10 m	IE-FM6Z2VO0010MSD0SD0X	8876360100

Note

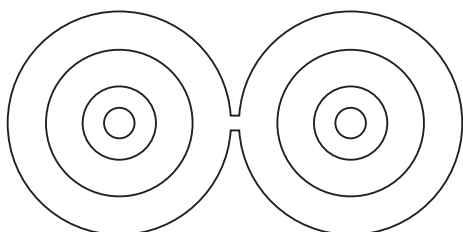
Accessories

	Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001

Note

ST patch cable

- multimode glass fibre
- ST connector



ST patch cable

Application:

Use the Weidmüller FO patch cables in switching cabinets or junction boxes, in fact wherever you need to set up short transmission paths with fibre-optic technology in a protected environment.

Features:

- PVC Zipcord cable
- multimode glass fibre
- 50 and 62.5 μm core diameters
- ST connector
- bending radius 60 mm (repetitive); 30 mm (once only)
- in lengths from 1 to 10 m

Technical data

[illegible]

Ordering data

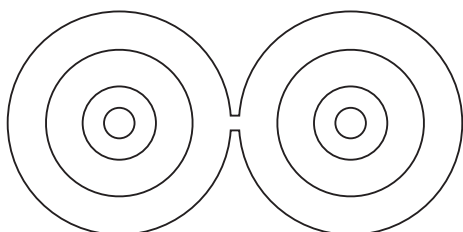
Description of part	Type	Order No.
Core 50 µm, 1 m	IE-FM5Z2VO0001MST0ST0X	8813240000
Core 50 µm, 2 m	IE-FM5Z2VO0002MST0ST0X	8813250000
Core 50 µm, 3 m	IE-FM5Z2VO0003MST0ST0X	8813260000
Core 50 µm, 5 m	IE-FQZ50S0005_0-STI0STII	8876370050
Core 50 µm, 10 m	IE-FM5Z2VO0010MST0ST0X	8876370100
Core 62.5 µm, 1 m	IE-FM6Z2VO0001MST0ST0X	8813270000
Core 62.5 µm, 2 m	IE-FM6Z2VO0002MST0ST0X	8813280000
Core 62.5 µm, 3 m	IE-FM6Z2VO0003MST0ST0X	8813290000
Core 62.5 µm, 5 m	IE-FM6Z2VO0005MST0ST0X	8876380050
Core 62.5 µm, 10 m	IE-FM6Z2VO0010MST0ST0X	8876380100

Note

Accessories

Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0 1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0 1740870001

Note

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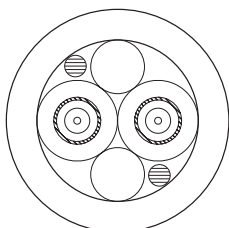
Description of part	Type	Order No.
Core 50 µm	IE-FM5Z2VO0002MST0SD0X	8813390000
Core 62.5 µm	IE-FM6Z2VO0002MST0SD0X	8813400000

Note

		Type	Order No.
	Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
	Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001
Note			

System cable SC

- multimode glass fibre
- SC duplex connectors



System cable SC

Application:

The Weidmüller FO system cables are happiest in tough industrial environments! They should always be your first choice for:

- long transmission paths without intermediate devices for boosting the signal,
- high EMC requirements,
- potential differences where the use of copper cables would require electrical isolation.

Features:

- FO breakout cable
- multimode glass fibre
- 50 and 62.5 μm core diameters
- left: SC duplex connector
- right: SC duplex connector
- in lengths from 10 to 100 m

Technical data

[illegible]

Ordering data

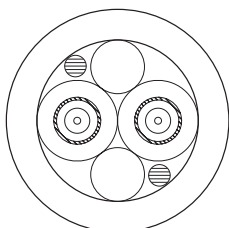
Description of part	Type	Order No.
Core 50 µm, 10 m	IE-FM5B2V00010MSD0SD0X	8813450000
Core 50 µm, 50 m	IE-FM5B2V00050MSD0SD0X	8876391000
Core 50 µm, 100 m	IE-FM5B2V00100MSD0SD0X	8876390500
Core 62.5 µm, 10 m	IE-FM6B2V00010MSD0SD0X	8813460000
Core 62.5 µm, 50 m	IE-FM6B2V00050MSD0SD0X	8876400500
Core 62.5 µm, 100 m	IE-FM6B2V00100MSD0SD0X	8876401000

Note

Accessories

Type	Order No.
Conductor markers	SF 5/21 NEUTRAL WS V0 1696130001
Conductor markers	SF 6/21 NEUTRAL WS V0 1740870001

Note

[illegible]

Description of part	Type	Order No.
Core 50 µm, 10 m	IE-FM5B2VO0010MST0ST0X	8813430000
Core 50 µm, 50 m	IE-FM5B2VO0050MST0ST0X	8876410500
Core 50 µm, 100 m	IE-FM5B2VO0100MST0ST0X	8876411000
Core 62.5 µm, 10 m	IE-FM6B2VO0010MST0ST0X	8813440000

Note

		Type	Order No.
	Conductor markers	SF 5/21 NEUTRAL WS V0	1696130001
	Conductor markers	SF 6/21 NEUTRAL WS V0	1740870001
Note			