SIEMENS

SIMATIC NET

Cabling technology for communication networks in industry

based on Industrial Ethernet/PROFINET and PROFIBUS

Ordering overview

Edition 03/2021

siemens.com/fastconnect

Cabling technology for communication networks in industry

A faultless on-site connection in 60 seconds with FastConnect

Problems often occur on-site when laying the cabling for industrial plants: when stripping the cable, assembling the plug-in connector, or connecting the cores.

The FastConnect (FC) quick assembly system from Siemens is the right system for:
- Optimally matched components for configuration of industry standard and robust network structures within the shortest possible time and without specialist knowledge
- Minimal amount of time for connecting terminal devices
- Avoidance of installation errors
- Simple on-site assembly
- Reduction of overall costs throughout the entire system lifetime

FastConnect includes cables, connectors and tools, and can be used for Industrial Ethernet, PROFINET, EtherNet/IP as well as for PROFIBUS.

With its optimally matched components, SIMATIC NET cables enable the installation of high-performance industrial network structures.

- Minimal installation time
- Easy stripping of outer sheath and braided shield in one step
- Simple connection system for Industrial Ethernet FastConnect cables
- Easy assembly thanks to preset FastConnect stripping tool
- Reliable shield contacting and strain relief
- M12 and RJ45 connection system for Industrial Ethernet, PROFINET, EtherNet/IP and PROFIBUS

Your benefits with FastConnect

With the FastConnect (FC) system for Industrial Ethernet, structured cabling from the office environment becomes industry-compliant:

- Coordinated system of FC plug-in connectors and an extensive FC cable spectrum for a wide variety of requirements in the industrial sector and energy automation

- UL approvals for Industrial Ethernet, PROFINET, EtherNet/IP, and PROFIBUS enable worldwide use

- Avoidance of errors thanks to color coding, preset tools, and defined materials

- Reliable shield contacting and strain relief as well as efficient EMC shielding for copper cabling

- Use of standard-compliant connection systems for Industrial Ethernet, PROFINET, EtherNet/IP, and PROFIBUS

- Fulfills environmental requirements in accordance with IEC 61850-3 and EN 45545 fire protection standard in rail vehicles

FastConnect for Industrial Ethernet/PROFINET

Quick connection of FastConnect (FC) RJ45 plug-in connectors 2 x 2 and 4 x 2
The Industrial Ethernet RJ45 plug-in connector for easy on-site assembly of 4- and 8-wire twisted pair FC installation cables (up to 10 Gbps) using the Industrial Ethernet stripping tool
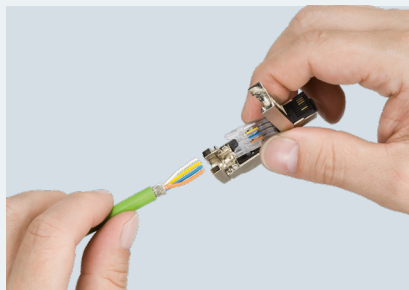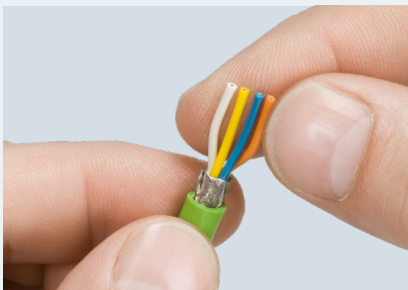
Prefabricated with RJ45 plug-in connector 2 x 2

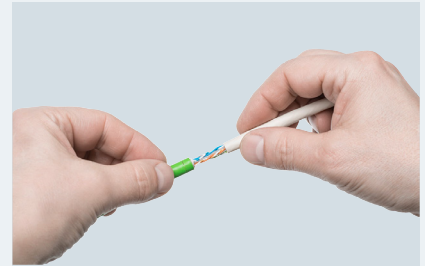# Cabling technology for communication networks in industry

FastConnect for Industrial Ethernet/PROFINET: Prefabricated with RJ45 plug-in connector 4 x 2
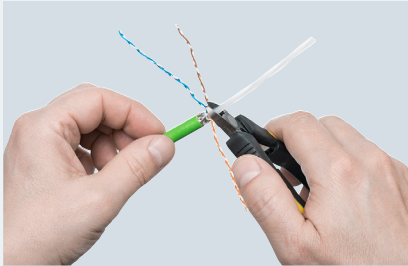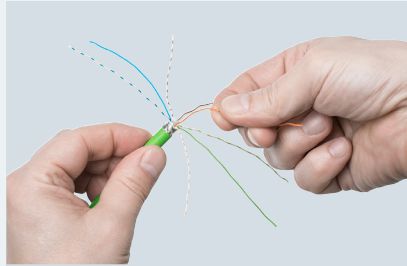

Measure the cable end

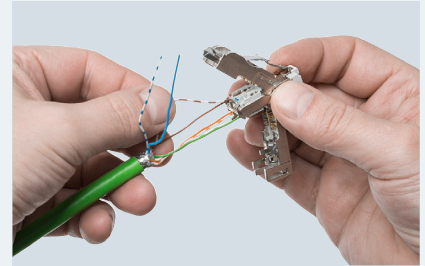*Cut the cable end with the FastConnect stripping tool*

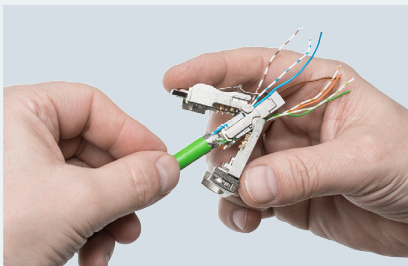*Remove the outer sheath and expose the braided shield*

Remove the interior support cross

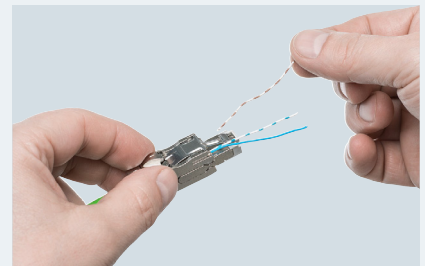*Unravel and smooth out the twisted wires*

Insert the wires into the plug according to color code and pull them out the opposite side


Press the plug casing to close it

Fasten the casing using a screwdriver

Remove protruding wires

FastConnect (FC) M12 plug-in connector 2 x 2 and 4 x 2

Industrial Ethernet M12 plug-in connector for easy on-site assembly with degree of protection IP65/67 for connecting 4- and 8-wire twisted pair FC installation cables (up to 10 Gbps) using the Industrial Ethernet stripping tool
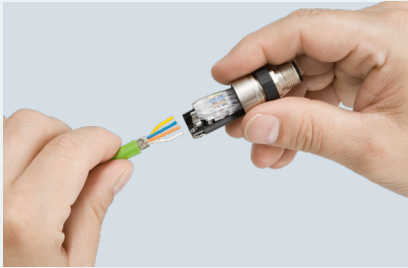
Prefabricated with M12 plug-in connector 2 x 2

Prefabricated with M12 plug-in connector 4 x 2

FastConnect (FC) LC and ST/BFOC plug-in connector

The Industrial Ethernet FastConnect LC and ST/BFOC plug-in connectors for easy on-site assembly of FastConnect glass fiber optic cables (62.5/200/230 µm multimode fibers) for lengths up to 3 km (100/1000 Mbps Industrial Ethernet/PROFIBUS) using the FastConnect FO termination kit
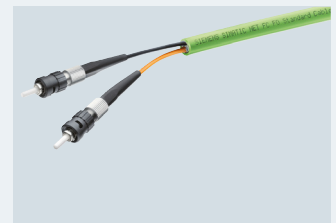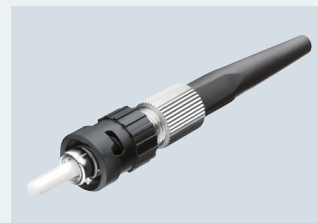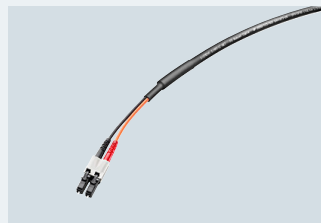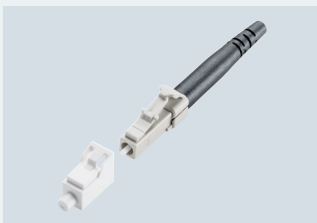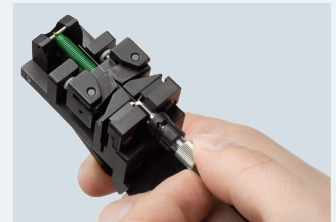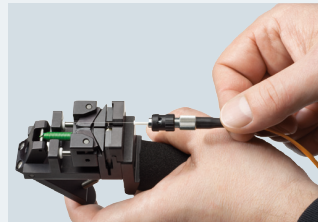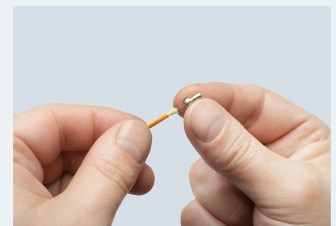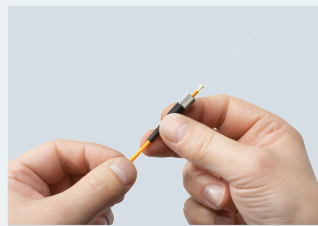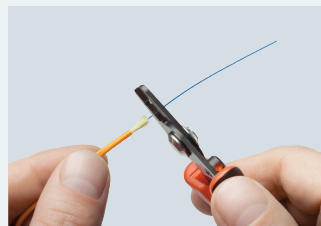
Prefabricated FastConnect for glass fiber optic cables

Cabling technology for communication networks in industry

FastConnect for PROFIBUS

Fast connection of FastConnect (FC) sub-D plug-in connectors

The PROFIBUS (FC) sub-D plug-in connector for easy on-site assembly of 2-wire FC installation cables (up to 12 Mbps) using the PROFIBUS stripping tool

Stripping and assembly using insulation displacement system

FastConnect (FC) M12 plug-in connector

The PROFIBUS (FC) M12 plug-in connector for easy on-site assembly of 2-wire FC installation cables (up to 12 Mbps) using the PROFIBUS stripping tool

Stripping and assembly with M12 plug-in connector

Cabling technology for communication networks in industry

Overview

	Electrical			Industrial Ethernet (IE) cables									
	IE FC cable 4 x 2			IE FC cable 2 x 2	IE TP cord 2 x 2	IE TP cord 4 x 2	IE connecting cable RJ45	IE connecting cable M12	Power cable				
	IE FC standard cable GP 4 x 2 (AWG22)	IE FC standard cable GP 4 x 2 (AWG24) / IE FC flexible cable GP 4 x 2 (AWG24) / IE FC trailing cable GP 4 x 2 (AWG24) / IE FC ground cable 4 x 2 (AWG24)	IE train cable GP 4 x 2 (AWG24)	IE FC TP cables GP 2 x 2	IE TP cord 9/RJ45 / IE TP cord 9-45/RJ45 / IE TP XP cord 9/9	IE TP cord RJ45/RJ45 / IE TP XP cord RJ45/RJ45	IE FC RJ45 PLUG-180/IE FC RJ45 PLUG-180	M12-180/M12-180 M12-180/IE FC RF45 PLUG-145 M12-90/M12-90	Power cable 2 x 0.75	Power cable 5 x 1.5	Energy Cable 4 x 1.5	Robust power cable 4 x 0.75	Control Cable 5 x 0.25
IE FC RJ45 modular outlet	●					●							
IE FC outlet RJ45				●	●	●							
IE FC RJ45 plug 2 x 2				●									
IE FC RJ45 plug 4 x 2		●											
IE FC Keystone RJ45		●											
M12 power and data connector — A-coded									●				●
M12 power and data connector — L-coded											●		
M12 power and data connector — 2 x 2 D-coded				●									
M12 power and data connector — 4 x 2 X-coded		●	●										
Devices with M12 connection								●					
Devices with RJ45 port					●	●	●						
Power plug PRO										●			
Power M12 plug PRO									●			●	
Power M12 cable connector PRO									●			●	
7/8" plug-in connector											●		
IE FC RJ45 plug PRO				●									

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Electrical	Industrial Ethernet (IE) cables		
Product	**Comments**		**Article number[1]**
Industrial Ethernet FastConnect cables 2 x 2 with 10/100 Mbps			
IE FC TP standard cable GP (type A)	Standard bus cable 2 x 2, for permanent installation, rigid cores for fast assembly, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1840-2AH10
	TP installation cable for connecting to FC outlet RJ45, for universal use, Cat5e	20 m	6XV1840-2AN20
		50 m	6XV1840-2AN50
		100 m	6XV1840-2AT10
		200 m	6XV1840-2AT20
		500 m	6XV1840-2AT50
		1 000 m	6XV1840-2AU10
IE FC TP robust standard cable GP (type A)	Robust standard bus cable 2 x 2, for harsh industrial environments, Cat5e, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m,		6XV1841-2A
IE FC TP flexible cable GP (type B)	Flexible bus cable 2 x 2, for occasionally moved machine parts, Cat5e, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1870-2B
	Flexible bus cable 2 x 2, for occasionally moved machine parts, Cat5e, delivery unit 1 000 m	1 000 m	6XV1870-2BU10
IE FC robust flexible cable GP (type B)	Robust, flexible bus cable 2 x 2, for harsh industrial environments, Cat5e, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1841-2B
IE FC TP FRNC cable GP (type B)	Flexible, halogen-free bus cable 2 x 2, for occasionally moved machine parts, Cat5e, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1871-2F
		1 000 m	6XV1871-2FU10
IE TP torsion cable (type C)	Torsion cable (PROFINET type C) 2 x 2, for use in highly flexible applications (torsion), Cat5e, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1870-2F
IE FC TP Trailing cable (type C)	TP installation cable for cable carrier applications, 4-core, shielded Cat5e, sold by the meter (4 million bending cycles), max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1840-3AH10
IE FC TP trailing cable GP (type C)	Highly flexible bus cable 2 x 2, continuous motion control in a cable carrier, Cat5e, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1870-2D
IE connecting cable M12-180/M12-180 (D-coded)	Prefabricated flexible connecting cable 2 x 2 with two 4-pin M12 connectors (D-coded), for connecting Industrial Ethernet devices (e.g., SIMATIC ET 200pro, SCALANCE X208PRO, SCALANCE XP-200) in degree of protection IP65/IP67, preferred length	0.3 m	6XV1870-8AE30
		0.5 m	6XV1870-8AE50
		1.0 m	6XV1870-8AH10
		1.5 m	6XV1870-8AH15
		2.0 m	6XV1870-8AH20
		3.0 m	6XV1870-8AH30
		5.0 m	6XV1870-8AH50
		10 m	6XV1870-8AN10
		15 m	6XV1870-8AN15
		20 m	6XV1870-8AN20
		30 m	6XV1870-8AN30
		40 m	6XV1870-8AN40
		50 m	6XV1870-8AN50
IE connecting cable M12-90/M12-90 (D-coded)	Prefabricated connecting cable 2 x 2, with two M12 connectors (D-coded), 90° cable outlet	0.3 m	6XV1870-8GE30
		0.5 m	6XV1870-8GE50
		1.0 m	6XV1870-8GH10
		1.5 m	6XV1870-8GH15
		2.0 m	6XV1870-8GH20
		3.0 m	6XV1870-8GH30
		5.0 m	6XV1870-8GH50
		10 m	6XV1870-8GN10
		15 m	6XV1870-8GN15
IE Connecting Cable M12-180/M12-180 (D-coded, push pull)	Prefabricated with IE FC Trailing Cable GP, M 12 connectors (D-coded, push pull)	0.5 m	6XV1871-8AE50
		1.0 m	6XV1871-8AH10
		1.5 m	6XV1871-8AH15
		2.0 m	6XV1871-8AH20
		3.0 m	6XV1871-8AH30
		5.0 m	6XV1871-8AH50
		10 m	6XV1871-8AN10
		15 m	6XV1871-8AN15
IE connecting cable M12-180/ IE FC RJ45 plug 145 (D-coded)	Prefabricated flexible connecting cable 2 x 2, with one 4-pin M12 connector (D-coded) and one IE FC RJ45 plug 145, for connecting Industrial Ethernet devices (e.g., SIMATIC ET 200pro, SCALANCE X208PRO, SCALANCE XP-200 and SIMOTION), preferred length	2.0 m	6XV1871-5TH20
		3.0 m	6XV1871-5TH30
		5.0 m	6XV1871-5TH50
		10 m	6XV1871-5TN10
		15 m	6XV1871-5TN15

Electrical		Industrial Ethernet (IE) cables		
	Product	Comments		Article number[1]
Industrial Ethernet FastConnect cables 2 x 2 with 10/100 Mbps (continued)				
	IE Connecting cable M12-90/ IE FC RJ45 Plug-180 (D-coded)	Prefabricated IE FC TP trailing cable GP 2 x 2 (PROFINET type C) with M12 connector (D-coded, 90° cable outlet) and with IE FC RJ45 plug 180	5.0 m	6XV1871-5MH50
	IE connecting cable IE FC RJ45 plug 180/ IE FC RJ45 plug 180	Prefabricated IE FC TP trailing cable GP 2 x 2 (PROFINET type C) with two IE FC RJ45 plugs 180, degree of protection IP20	1.0 m	6XV1871-5BH10
			2.0 m	6XV1871-5BH20
			3.0 m	6XV1871-5BH30
			5.0 m	6XV1871-5BH50
			10 m	6XV1871-5BN10
			12 m	6XV1871-5BN12
			15 m	6XV1871-5BN15
			20 m	6XV1871-5BN20
			30 m	6XV1871-5BN30
	IE FC TP robust food cable GP (type C)	TP installation cable 2 x 2 for use in the food, beverages, and tobacco industries, IP69, Cat5e, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1881-2A
	IE robust connecting cable M12, IP69 (D-coded)	Prefabricated IE robust connecting cable 2 x 2 M12-180/M12-180, IP69, with two M12 connectors (D-coded)	1.0 m	6XV1881-5AH10
			2.0 m	6XV1881-5AH20
			3.0 m	6XV1881-5AH30
			5.0 m	6XV1881-5AH50
	IE FC TP food cable (type C)	Flexible bus cable 2 x 2 for use in the food, beverages, and tobacco industries, Cat5e, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1871-2L
	IE FC TP marine cable (type B)	Bus cable 2 x 2 for marine and offshore use, Cat5e, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1840-4AH10
	IE FC TP festoon cable GP (type B)	Bus cable 2 x 2 for festoon mounting, Cat5e, sold by the meter (min. 5 million bending cycles), max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1871-2S
	IE TP ground cable (type C)	Bus cable 2 x 2 for permanent installation in the ground, Cat5e, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1871-2G
	IE Robust Ground Cable (type C)	IE robust ground cable 2 x 2, underground laying cable, 4-core shielded with rodent protection, Cat5e, sold by the meter, delivery unit max. 1 000 m, minimum order 20 m		6XV1871-2N
	IE TP train cable GP (type C)	Bus cable 2 x 2 for special applications in trains, certified for railway applications, Cat5e, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1871-2T
Industrial Ethernet FastConnect cables 4 x 2 for 1 Gbps and 10 Gbps				
	IE FC TP standard cable GP	Standard bus cable 4 x 2, AWG22, standard cable with rigid cores for fast assembly, for permanent installation, Cat6A, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1870-2E
	IE FC TP standard cable GP (type C)	Standard bus cable 4 x 2, AWG24, standard cable with rigid cores for fast assembly, for permanent installation, Cat6A, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1878-2A
			1 000 m	6XV1878-2AU10
	IE FC TP flexible cable GP (type C)	Bus cable 4 x 2, AWG24/7, with flexible cores, flexible cable for fast installation, for occasionally moved machine parts, Cat6A, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1878-2B
	IE TP train cable GP	Bus cable 4 x 2, AWG24/7, with flexible cores, for use in trains, certified for railway applications, Cat7, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1878-2T
	IE FC TP trailing cable GP (type C)	FastConnect TP trailing cable GP 4 x 2, TP installation cable Cat6A, for connecting to IE FC RJ45 plug 4 x 2, AWG24, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1878-2C
	IE connecting cable RJ45-180/RJ45-180	Prefabricated IE FC flexible cable GP 4 x 2, with two IE FC RJ45 plugs 180 4 x 2	2.0 m	6XV1878-5BH20
			3.0 m	6XV1878-5BH30
			5.0 m	6XV1878-5BH50
			10 m	6XV1878-5BN10
			15 m	6XV1878-5BN15
			20 m	6XV1878-5BN20
			25 m	6XV1878-5BN25
			30 m	6XV1878-5BN30
	IE FC TP ground cable (type C)	Ground extension cable 4 x 2, shielded cable for connecting to IE FC RJ45 plug 4 x 2, AWG24, Cat6A, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1878-2G
IE hybrid cable				
	IE hybrid cable	Ethernet hybrid cable 2 x 2 + 4 x 0.34, for transmission of data and power, Cat5, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1870-2J

Cabling technology for communication networks in industry

Electrical	Industrial Ethernet (IE) cables		
Product	Comments		Article number[1]
Power cables			
Control Cable ET200ecoPN 5 × 0.25	5-core power line, stranded wire, 5 × AWG24, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1801-2C
Power cable 2 x 0.75	Power cable for connection of signaling contact and 24 V power supply to SCALANCE X and SCALANCE W, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1812-8A
Power cable 5 x 1.5	Power cable, power supply for ET 200 modules, with 7/8 power interface, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-8AH10
Robust power cable 4 x 1.0	Robust power cable, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1801-2A
Robust Energy Cable 4 x 1,5	4-core power line, stranded wire, 4 x 1.5 mm², trailable, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1801-2B
M12 robust power connecting cable M12-180/M12-180 (A-coded)	Prefabricated robust power plug-in cable, IP69, for power supply of the ET 200, with M12 connector and M12 socket (A-coded)	1.0 m	6XV1801-5AH10
		2.0 m	6XV1801-5AH20
		3.0 m	6XV1801-5AH30
		5.0 m	6XV1801-5AH50
M12 power connecting cable M12-180/M12-180[2] (A-coded)	Prefabricated flexible plug-in cable, with one 4-pin M12 male/female connector (A-coded), plug-in cable for connecting the 24 V power supply to ET 200eco PN in degree of protection IP65/67, preferred length	0.3 m	6XV1801-5DE30
		0.5 m	6XV1801-5DE50
		1.0 m	6XV1801-5DH10
		1.5 m	6XV1801-5DH15
		2.0 m	6XV1801-5DH20
		3.0 m	6XV1801-5DH30
		5.0 m	6XV1801-5DH50
		10 m	6XV1801-5DN10
		15 m	6XV1801-5DN15
M12 power connecting cable M12-90/M12-90 (A-coded)	Prefabricated power plug-in cable 2 x 2, for power supply of the ET 200, with M12 connector and M12 socket (A-coded)	0.3 m	6XV1801-5GE30
		0.5 m	6XV1801-5GE50
		1.0 m	6XV1801-5GH10
		1.5 m	6XV1801-5GH15
		2.0 m	6XV1801-5GH20
		3.0 m	6XV1801-5GH30
		5.0 m	6XV1801-5GH50
		10 m	6XV1801-5GN10
		15 m	6XV1801-5GN15
7/8" plug-in cable	Prefabricated 7/8" power plug-in cable, for power supply of the ET 200 with 7/8" connector and 7/8" socket	0.3 m	6XV1822-5BE30
		0.5 m	6XV1822-5BE50
		1.0 m	6XV1822-5BH10
		1.5 m	6XV1822-5BH15
		2.0 m	6XV1822-5BH20
		3.0 m	6XV1822-5BH30
		5.0 m	6XV1822-5BH50
		10 m	6XV1822-5BN10
		15 m	6XV1822-5BN15
Power Connecting Cable M12-180/M12-180 (L-coded)	Power supply, harness cable with M12 connector and M12 socket (L-coded), 4-pole	0.5 m	6XV1801-6DE50
		1.0 m	6XV1801-6DH10
		1.5 m	6XV1801-6DH15
		2.0 m	6XV1801-6DH20
		3.0 m	6XV1801-6DH30
		5.0 m	6XV1801-6DH50
		10 m	6XV1801-6DN10
		15 m	6XV1801-6DN15

Electrical	Industrial Ethernet (IE) cables		
Product	Comments		Article number[1]
Power cables (continued)			
Power Connecting Cable M12-90/M12-90 (L-coded)	Power supply of the ET200, harness cable with M12 connector and M12 socket (L-coded), 4-pole	0,5 m	6XV1801-6GE50
		1,0 m	6XV1801-6GH10
		1,5 m	6XV1801-6GH15
		2,0 m	6XV1801-6GH20
		3,0 m	6XV1801-6GH30
		5,0 m	6XV1801-6GH50
		10 m	6XV1801-6GN10
		15 m	6XV1801-6GN15
Control Connecting Cable M12-180/M12-180 (A-coded)	5-core, IO link port class B, prefabricated with M12 connector and M12 socket (A-coded), straight cable duct	0,5 m	6XV1801-2CE50
		1,0 m	6XV1801-2CH10
		1,5 m	6XV1801-2CH15
		2,0 m	6XV1801-2CH20
		3,0 m	6XV1801-2CH30
		5,0 m	6XV1801-2CH50
		10 m	6XV1801-2CN10
		15 m	6XV1801-2CN15
IE TP cord – Easy connection of terminal devices to the IE FC cabling system			
IE TP cord RJ45/RJ45	Prefabricated 8-wire Cat6$_A$ patch cable 4 x 2, with two RJ45 connectors, preferred length	0.3 m	6XV1870-3QE30
		0.5 m	6XV1870-3QE50
		1.0 m	6XV1870-3QH10
		2.0 m	6XV1870-3QH20
		3.0 m	6XV1870-3QH30
		4.0 m	6XV1870-3QH40
		6.0 m	6XV1870-3QH60
		10 m	6XV1870-3QN10
		15 m	6XV1870-3QN15
		20 m	6XV1870-3QN20
		25 m	6XV1870-3QN25
		30 m	6XV1870-3QN30
		35 m	6XV1870-3QN35
		40 m	6XV1870-3QN40
		45 m	6XV1870-3QN45
		50 m	6XV1870-3QN50
IE TP Cord M12-180/RJ45-180 (X-coded)	Prefabricated IE Flexible Cable, with 1 x M12 connector (X-coded), 180° cable outlet and 1 x RJ45 connector, 180° cable outlet	0.5 m	6XV1878-5TE50
		1.0 m	6XV1878-5TH10
		1.5 m	6XV1878-5TH15
		2.0 m	6XV1878-5TH20
		3.0 m	6XV1878-5TH30
		5.0 m	6XV1878-5TH50
		10 m	6XV1878-5TN10
		15 m	6XV1878-5TN15
IE TP Cord M12-90/RJ45-180 (X-coded)	Prefabricated IE Flexible Cable with 1 x M12 connector (X-coded), 90° cable outlet and 1 x RJ45 connector, 90° cable outlet	0.5 m	6XV1878-5SE50
		1.0 m	6XV1878-5SH10
		1.5 m	6XV1878-5SH15
		2.0 m	6XV1878-5SH20
		3.0 m	6XV1878-5SH30
		5.0 m	6XV1878-5SH50
		10 m	6XV1878-5SN10
		15 m	6XV1878-5SN15

Electrical	Industrial Ethernet (IE) cables		
Product	Comments		Article number[1]
IE TP cord – Easy connection of terminal devices to the IE FC cabling system			
IE TP XP cord RJ45/RJ45	Prefabricated twisted 8-wire Cat6ₐ patch cable 4 x 2, with two RJ45 connectors, preferred length	0.5 m	6XV1870-3RE50
		1.0 m	6XV1870-3RH10
		2.0 m	6XV1870-3RH20
		6.0 m	6XV1870-3RH60
		10 m	6XV1870-3RN10
IE TP converter cord 15/RJ45	Prefabricated TP connecting cable 2 x 2, for connecting terminal devices with RJ45 interface to the ITP cabling system, with a 15-pin sub-D socket with slide locking and an RJ45 connector	0.5 m	6XV1850-2EE50
		2.0 m	6XV1850-2EH20
IE TP cord RJ45/15	Prefabricated TP cable 2 x 2, with one 15-pin sub-D connector and one RJ45 connector	0.5 m	6XV1850-2LE50
		1.0 m	6XV1850-2LH10
		2.0 m	6XV1850-2LH20
		6.0 m	6XV1850-2LH60
		10 m	6XV1850-2LN10
IE TP cord 9/RJ45	Prefabricated TP cable 2 x 2, with one 9-pin sub-D connector and one RJ45 connector	0.5 m	6XV1850-2JE50
		1.0 m	6XV1850-2JH10
		2.0 m	6XV1850-2JH20
		6.0 m	6XV1850-2JH60
		10 m	6XV1850-2JN10
IE TP XP cord 9/9	Prefabricated twisted TP cable 2 x 2, for direct connection of two IE network components with ITP interface, with two 9-pin sub-D connectors	1.0 m	6XV1850-2RH10
IE TP cord M12/M12 (X-coded)	Prefabricated flexible Cat6ₐ cable 4 x 2, with two M12 connectors (X-coded)	0.3 m	6XV1878-5HE30
		0.5 m	6XV1878-5HE50
		1.0 m	6XV1878-5HH10
		1.5 m	6XV1878-5HH15
		2.0 m	6XV1878-5HH20
		3.0 m	6XV1878-5HH30
		5.0 m	6XV1878-5HH50
		10 m	6XV1878-5HN10
		15 m	6XV1878-5HN15
IE TP Cord M12-90/M12-90 (X-coded)	Prefabricated Cat6ₐ IE flexible cable, with two M12 connectors (X-coded), 90° cable outlet	0.5 m	6XV1878-5GE50
		1.0 m	6XV1878-5GH10
		1.5 m	6XV1878-5GH15
		2.0 m	6XV1878-5GH20
		3.0 m	6XV1878-5GH30
		5.0 m	6XV1878-5GH50
		10 m	6XV1878-5GN10
		15 m	6XV1878-5GN15
IE TP Cord M12-180/RJ45-180 (X-coded)	Prefabricated IE Flexible Cable, with one M12 connector (X-coded), 180° cable outlet and one RJ45 connector, 180° cable outlet	0,5 m	6XV1878-5TE50
		1,0 m	6XV1878-5TH10
		1,5 m	6XV1878-5TH15
		2,0 m	6XV1878-5TH20
		3,0 m	6XV1878-5TH30
		5,0 m	6XV1878-5TH50
		10 m	6XV1878-5TN10
		15 m	6XV1878-5TN15
IE TP Cord M12-90/RJ45-180 (X-coded)	Prefabricated IE Flexible Cable, with one M12 connector (X-coded), 90° cable outlet and one RJ45 connector, 180° cable outlet	0,5 m	6XV1878-5SE50
		1,0 m	6XV1878-5SH10
		1,5 m	6XV1878-5SH15
		2,0 m	6XV1878-5SH20
		3,0 m	6XV1878-5SH30
		5,0 m	6XV1878-5SH50
		10 m	6XV1878-5SN10
		15 m	6XV1878-5SN15

	Optical			Industrial Ethernet (IE) cables								
	Connection options with connectors, terminals or devices											
	Fiber optic cables 50/125/1 400 μm — FO standard cable GP / FO trailing cable / FO trailing cable GP / FO ground cable	Fiber optic cables 62.5/125 μm — Fiber optic standard cable / INDOOR fiber optic cable / Flexible fiber optic trailing cable / SIENOPYR marine duplex fiber optic cable	PCF fiber optic cables 200/230 μm — PCF standard cable GP / PCF trailing cable GP / PCF trailing cable	Fiber optic cables with ST/BFOC connector — Prefabricated fiber optic cables with ST/BFOC connector	Fiber optic cables with SC connectors — Prefabricated fiber optic cables with SC connector	Fiber optic cables with LC connector — Prefabricated fiber optic cables with LC connector	POF fiber optic cables 980/1 000 μm — POF standard cable GP / POF trailing cable	Fiber optic cable with SC RJ connector — Prefabricated fiber optic cables with SC RJ connector	Fiber optic cables with LC connector — FO rugged cable GP (4E9/125/900)	FO rugged cable GP (50/125/900) / FO standard cable GP (50/125) / FO trailing cable GP (50/125)	Fiber optic cables with FC connector — FO FC standard cable GP (62.5/200/230)	FO FC trailing cable (62.5/200/230)
ST/BFOC connector	●	●										
IE devices with ST/BFOC connection				●								
SC connector	●	●										
SC connector						●						
IE devices with SC connection					●							
IE Devices with LC connection						●						
SC RJ connector			●				●					
IE Devices with SC RJ connection								●				
IE SC RJ POF plug PRO							●					
IE SC RJ PCF plug PRO			●									
Multimode FO LC plug										●		
FO FC ST/BFOC plug											●	●
FO FC LC plug											●	●

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Note:
See page 16 for our portfolio of prefabricated fiber optic cords (adapter cables) with a range of connection options

Optical	Industrial Ethernet (IE) cables		
Product	**Comments**		**Article number[1]**
FC glass fiber optic cables			
FC FO standard cable GP 62.5/200/230 (OM1)	Glass fiber optic cable for assembly in the field, for use at permanent location, installation in cable channels and pipes, UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1847-2A
FC FO trailing cable 62.5/200/230 (OM1)	Flexible glass fiber optic cable for assembly in the field, for high mechanical loads, for use in cable carriers indoors and outdoors, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1847-2C
Glass fiber optic cables			
FO standard cable GP 50/125/1400 (OM2++)	Glass fiber optic cable for use indoors and outdoors, UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1873-2A
	Prefabricated with 2 x 2 ST/BFOC connectors	0.5 m	6XV1873-3AH05
		1.0 m	6XV1873-3AH10
		2.0 m	6XV1873-3AH20
		3.0 m	6XV1873-3AH30
		5.0 m	6XV1873-3AH50
		10 m	6XV1873-3AN10
		15 m	6XV1873-3AN15
		20 m	6XV1873-3AN20
		30 m	6XV1873-3AN30
		40 m	6XV1873-3AN40
		50 m	6XV1873-3AN50
		80 m	6XV1873-3AN80
		100 m	6XV1873-3AT10
		150 m	6XV1873-3AT15
		200 m	6XV1873-3AT20
		300 m	6XV1873-3AT30
	Prefabricated with 2 x LC duplex connectors	1.0 m	6XV1873-5AH10
		2.0 m	6XV1873-5AH20
		3.0 m	6XV1873-5AH30
		5.0 m	6XV1873-5AH50
		10 m	6XV1873-5AN10
		15 m	6XV1873-5AN15
		20 m	6XV1873-5AN20
		30 m	6XV1873-5AN30
		40 m	6XV1873-5AN40
		50 m	6XV1873-5AN50
		80 m	6XV1873-5AN80
		100 m	6XV1873-5AT10
		150 m	6XV1873-5AT15
		200 m	6XV1873-5AT20
		300 m	6XV1873-5AT30
	Prefabricated with 2 x SC duplex connectors	0.5 m	6XV1873-6AH05
		1.0 m	6XV1873-6AH10
		2.0 m	6XV1873-6AH20
		3.0 m	6XV1873-6AH30
		5.0 m	6XV1873-6AH50
		10 m	6XV1873-6AN10
		15 m	6XV1873-6AN15
		20 m	6XV1873-6AN20
		30 m	6XV1873-6AN30
		40 m	6XV1873-6AN40
		50 m	6XV1873-6AN50
		80 m	6XV1873-6AN80
		100 m	6XV1873-6AT10
		150 m	6XV1873-6AT15
		200 m	6XV1873-6AT20
		300 m	6XV1873-6AT30

Optical		Industrial Ethernet (IE) cables		
	Product	Comments		Article number[1]
Glass fiber optic cables (continued)				
	FO FRNC cable 50/125/1400 (OM2++)	Glass fiber optic cable, halogen-free cable for use indoors and outdoors, for permanent installation, UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1873-2B
	FO FRNC cable 50/125/1400 (OM4)	Glass fiber optic cable, halogen-free cable for use indoors and outdoors, for permanent installation, UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1873-2E
	FO trailing cable 50/125/1400 (OM2++)	Glass fiber optic cable, flexible cable for use in cable carriers with high mechanical load, no UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1873-2C
		Prefabricated with 2 x 2 ST/BFOC connectors	3.0 m	6XV1873-3CH30
			5.0 m	6XV1873-3CH50
			10 m	6XV1873-3CN10
			20 m	6XV1873-3CN20
			50 m	6XV1873-3CN50
			100 m	6XV1873-3CT10
		Prefabricated with 2 x LC duplex connectors	5.0 m	6XV1873-5CH50
			10 m	6XV1873-5CN10
			15 m	6XV1873-5CN15
			20 m	6XV1873-5CN20
		Prefabricated with 2 x SC duplex connectors	3.0 m	6XV1873-6CH30
			5.0 m	6XV1873-6CH50
			10.m	6XV1873-6CN10
			20 m	6XV1873-6CN20
			50 m	6XV1873-6CN50
			100 m	6XV1873-6CT10
	FO trailing cable GP 50/125/1400 (OM2++)	Trailing cable, segmentable, without connector, UL approval, sold by the meter, max. unit of delivery 1 000 m, minimum order quantity 20 m		6XV1873-2D
		Prefabricated with 2 x 2 ST/BFOC connectors, preferred length	3.0 m	6XV1873-3DH30
			5.0 m	6XV1873-3DH50
			10 m	6XV1873-3DN10
			20 m	6XV1873-3DN20
			50 m	6XV1873-3DN50
			100 m	6XV1873-3DT10
	FO trailing cable GP 50/125/1400 (OM2++)	Prefabricated with 2 x SC duplex connectors, preferred length	3.0 m	6XV1873-6DH30
			5.0 m	6XV1873-6DH50
			10 m	6XV1873-6DN10
			20 m	6XV1873-6DN20
			50 m	6XV1873-6DN50
			100 m	6XV1873-6DT10
	FO ground cable 50/125/1400 (OM2++)	Glass fiber optic cable, waterproof lengthwise and sideways with non-metallic protection against rodents, for use outdoors as well as for direct installation in the ground, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1873-2G
		Prefabricated with 2 x 2 ST/BFOC connectors, preferred length	100 m	6XV1873-3GT10
			200 m	6XV1873-3GT20
			300 m	6XV1873-3GT30
		Prefabricated with 2 x SC duplex connectors, preferred length	100 m	6XV1873-6GT10
			200 m	6XV1873-6GT20
			300 m	6XV1873-6GT30
	FO robust cable GP 50/125/900 (OM2++)	Glass fiber optic cable, waterproof lengthwise and sideways with non-metallic protection against rodents, for use indoors and outdoors as well as for direct installation in the ground, multimode, sold by the meter		6XV1873-2R
		Prefabricated with 2 x LC duplex connectors	1.0 m	6XV1873-5RH10
			2.0 m	6XV1873-5RH20
			3.0 m	6XV1873-5RH30
			10 m	6XV1873-5RN10
			30 m	6XV1873-5RN30
			50 m	6XV1873-5RN50
			100 m	6XV1873-5RT10
			150 m	6XV1873-5RT15
	FO robust cable GP 4E9/125/900	Glass fiber optic cable, waterproof lengthwise and sideways with non-metallic protection against rodents, for use indoors and outdoors as well as for direct installation in the ground, singlemode, sold by the meter		6XV1843-2R

Optical	Industrial Ethernet (IE) cables		
Product	**Comments**		**Article number[1]**
Glass fiber optic cables (continued)			
FO standard cable 62.5/125/900 (OM1)	Fiber optic flexible cable, for use indoors and outdoors, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1820-5AH10
	Prefabricated with 2 x 2 ST/BFOC connectors, preferred length	1.0 m	6XV1820-5BH10
		2.0 m	6XV1820-5BH20
		3.0 m	6XV1820-5BH30
		4.0 m	6XV1820-5BH40
		5.0 m	6XV1820-5BH50
		10 m	6XV1820-5BN10
		15 m	6XV1820-5BN15
		20 m	6XV1820-5BN20
		30 m	6XV1820-5BN30
		40 m	6XV1820-5BN40
		50 m	6XV1820-5BN50
		55 m	6XV1820-5BN55
		60 m	6XV1820-5BN60
		65 m	6XV1820-5BN65
		70 m	6XV1820-5BN70
		75 m	6XV1820-5BN75
		80 m	6XV1820-5BN80
		100 m	6XV1820-5BT10
		120 m	6XV1820-5BT12
		130 m	6XV1820-5BT13
		150 m	6XV1820-5BT15
		200 m	6XV1820-5BT20
		250 m	6XV1820-5BT25
		300 m	6XV1820-5BT30
Fiber optic indoor cable 62.5/125/900, segmentable (OM1)	Glass fiber optic cable, crush-proof, halogen-free and flame-retardant cable for indoor installation, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1820-7AH10
	Prefabricated with 2 x 2 ST/BFOC connectors, preferred length	0.5 m	6XV1820-7BH05
		1.0 m	6XV1820-7BH10
		2.0 m	6XV1820-7BH20
		3.0 m	6XV1820-7BH30
		5.0 m	6XV1820-7BH50
		10 m	6XV1820-7BN10
		15 m	6XV1820-7BN15
		20 m	6XV1820-7BN20
		25 m	6XV1820-7BN25
		50 m	6XV1820-7BN50
		75 m	6XV1820-7BN75
		100 m	6XV1820-7BT10
Fiber optic flexible cable 62.5/125/1400, segmentable (OM1)	Flexible glass fiber optic cable, for use in cable carriers indoors and outdoors, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1820-6AH10
	Prefabricated with 2 x 2 ST/BFOC connectors, preferred length	1.0 m	6XV1820-6BH10
		2.0 m	6XV1820-6BH20
		3.0 m	6XV1820-6BH30
		5.0 m	6XV1820-6BH50
		10 m	6XV1820-6BN10
		15 m	6XV1820-6BN15
		20 m	6XV1820-6BN20
		30 m	6XV1820-6BN30
		50 m	6XV1820-6BN50
		75 m	6XV1820-6BN75
		100 m	6XV1820-6BT10

Optical	Industrial Ethernet (IE) cables		
Product	Comments		Article number[1]
Glass fiber optic cables (continued)			
Fiber optic multimode cord	Prefabricated multimode glass fiber optic cable, SC/SC, 50/125, with 2 x SC duplex connectors	1.0 m	6XV1843-5EH10-0CC0
	Prefabricated multimode glass fiber optic cable, SC/ST/BFOC, 50/125, with 1 x SC duplex connector and 2 x ST/BFOC connectors	1.0 m	6XV1843-5EH10-0CB0
	Prefabricated multimode glass fiber optic cable, SC/LC, 50/125, with 1 x SC duplex connector and 1 x LC duplex connector	1.0 m	6XV1843-5EH10-0CA0
	Prefabricated multimode glass fiber optic cable, ST/BFOC/LC, 50/125, with 2 x ST/BFOC connectors and 1 x LC duplex connector	1.0 m	6XV1843-5EH10-0AB0
	Prefabricated multimode glass fiber optic cable, LC/LC, 50/125, with 2 x LC duplex connectors	1.0 m	6XV1843-5EH10-0AA0
Fiber optic singlemode cord	Prefabricated singlemode glass fiber optic cable, SC/SC, 9/125, with 2 x SC duplex connectors	1.0 m	6XV1843-5FH10-0CC0
	Prefabricated singlemode glass fiber optic cable, SC/ST/BFOC, 9/125, with 1 x SC duplex connector and 2 x ST/BFOC connectors	1.0 m	6XV1843-5FH10-0CB0
	Prefabricated singlemode glass fiber optic cable, SC/LC, 9/125, with 1 x SC duplex connector and 1 x LC duplex connector	1.0 m	6XV1843-5FH10-0CA0
	Prefabricated singlemode glass fiber optic cable, ST/BFOC/LC, 9/125, with 2 x ST/BFOC connectors and 1 x LC duplex connector	1.0 m	6XV1843-5FH10-0AB0
	Prefabricated singlemode glass fiber optic cable, LC/LC, 9/125, with 2 x LC duplex connectors	1.0 m	6XV1843-5FH10-0AA0
Special bus cable			
SIENOPYR fiber optic marine cable	Fiber optic cable for routing on ships and offshore platforms, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-0NH10
POF and PCF fiber optic cables			
POF standard cable GP 980/1000[2]	Fiber optic cable with polyoptical fibers, for fixed installation indoors, UL approval, sold by the meter, max. delivery unit 500 m, minimum order quantity 20 m		6XV1874-2A
POF trailing cable 980/1000[2]	Fiber optic cable with polyoptical fibers, for moving applications (e.g., application in cable carriers), sold by the meter, max. delivery unit 500 m, minimum order quantity 20 m		6XV1874-2B
PCF standard cable GP 200/230[2]	PCF fiber optic cable with plastic cladding, for fixed installation indoors and outdoors, UL approval, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1861-2A
	Prefabricated with 2 x 2 ST/BFOC connectors, preferred length, pulling aid	75 m	6XV1861-3AN75
		100 m	6XV1861-3AT10
		150 m	6XV1861-3AT15
		200 m	6XV1861-3AT20
		250 m	6XV1861-3AT25
PCF trailing cable 200/230[2]	PCF fiber optic cable with plastic cladding, used for high mechanical loads and moving applications (e.g., cable carriers), no UL approval, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1861-2C
	Prefabricated with 2 x 2 ST/BFOC connectors, preferred length, pulling aid	75 m	6XV1861-3CN75
		100 m	6XV1861-3CT10
		150 m	6XV1861-3CT15
PCF trailing cable GP200/230[2]	PCF fiber optic cable with plastic cladding, used for high mechanical loads and moving applications (e.g., cable carriers), UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1861-2D

Electrical	Optical	Industrial Ethernet (IE) plugs		
	Product	Comments		Article number[1]
IE FC RJ45 plug 2 x 2				
	IE FC RJ45 plug 180	RJ45 data connector, for connecting to IE FC TP cables 2 x 2, suitable for fast assembly with the FastConnect system, 180° cable outlet	1 unit	6GK1901-1BB10-2AA0
			10 units	6GK1901-1BB10-2AB0
			50 units	6GK1901-1BB10-2AE0
	IE FC RJ45 plug 90	90° cable outlet	1 unit	6GK1901-1BB20-2AA0
			10 units	6GK1901-1BB20-2AB0
			50 units	6GK1901-1BB20-2AE0
	IE FC RJ45 plug 145	145° cable outlet	1 unit	6GK1901-1BB30-0AA0
			10 units	6GK1901-1BB30-0AB0
			50 units	6GK1901-1BB30-0AE0
	IE RJ45 port lock	RJ45 port lock with key for mechanical locking of RJ45 ports	1 unit	6GK1901-1BB50-0AA0
IE FC RJ45 plug 4 x 2				
	IE FC RJ45 plug 180	Cat6$_A$ RJ45 data connector, for connecting to IE FC TP cables 4 x 2, AWG24, suitable for fast assembly with the FastConnect system	1 unit	6GK1901-1BB12-2AA0
			10 units	6GK1901-1BB12-2AB0
			50 units	6GK1901-1BB12-2AE0
IE FC Keystone RJ45 4 x 2				
	IE FC Keystone RJ45 4 x 2	Field assembly RJ45 outlet, 8-pole, Cat6$_A$, metal enclosure, FC quick connection method, for standard rail mounting and 19" panel	1 unit	6GK1901-0BE10-0AA0
	IE Cable SFP+/SFP+	Prefabricated IE cable with SFP-plus connectors, 1 pack = 1 unit	1 m	6GK5980-3CB00-0AA1
			2 m	6GK5980-3CB00-0AA2
			7 m	6GK5980-3CB00-0AA7
	FO LC Coupler	Plastic enclosure, for mounting in 19" module frame	5 units	6GK1901-0RP10-0AA0
	19" Module Frame 1RU	Module support for mounting of IE RJ45 Keystone or FO LC coupler, mounting in 19" enclosure	1 unit	6GK1901-0AM00-0AA0
	CU/FO Modular Outlet	Modular outlet for mounting of IE RJ45 Keystone or FO LC Coupler, for standard rail mounting	1 unit	6GK1901-1BE00-0AA4
IE push pull plug PRO				
	IE FC RJ45 plug PRO	FastConnect RJ45 data connector for on-site assembly to IE FC TP cable 2 x 2, field assembly connector for push pull device connection with high degree of protection	1 unit	6GK1901-1BB20-6AA0
	IE FC RJ45 plug PRO	RJ45 push pull connector for on-site assembly to IE FC TP cable 2 x 2 and IE FC TP cable 4 x 2, metal enclosure, IP65	1 unit	6GK1901-1BB21-6AA0
	IE RJ45 plug PRO	RJ45 data connector for on-site assembly to TP cables 2 x 2, field assembly connector for push pull device connection with high degree of protection	1 unit	6GK1901-1BB10-6AA0
	IE SC RJ POF plug PRO	SC RJ plug-in connector for POF fiber optic cable, field assembly connector for push pull device connection with high degree of protection, for SCALANCE X-200IRT PRO switches and SIMATIC ET 200pro	1 unit	6GK1900-0MB00-6AA0
	IE SC RJ PCF plug PRO	SC RJ plug-in connector for PCF fiber optic cable, field assembly connector for push pull device connection with high degree of protection, for SCALANCE X-200IRT PRO switches	1 unit	6GK1900-0NB00-6AA0
	Power plug PRO	Power plug-in connector, 5-pin, field assembly connector for push pull device connection with high degree of protection, for power supply with 2 x 24 V DC	1 unit	6GK1907-0AB11-6AA0
	IE RJ45 coupler PRO	RJ45 push pull coupler for on-site assembly with IE FC RJ45 plug PRO, metal enclosure, IP65	1 unit	6GK1901-0BP10-6AA0

Cabling technology for communication networks in industry

Electrical	Optical	Industrial Ethernet (IE) plugs		
	Product	**Comments**		**Article number**[1]
Modular outlet				
	IE FC RJ45 modular outlet	Without replaceable insert	1 unit	6GK1901-1BE00-0AA0
		With 2FE insert, replaceable insert for 2 x 100 Mbps interfaces	1 unit	6GK1901-1BE00-0AA1
		With 1GE insert, replaceable insert for 1 x 1 000 Mbps interface	1 unit	6GK1901-1BE00-0AA2
		With power insert, replaceable insert for 1 x 24 V DC and 1 x 100 Mbps interface	1 unit	6GK1901-1BE00-0AA3
	IE FC RJ45 modular outlet insert 2FE	Replaceable insert for FC modular outlet base, 2 x RJ45 for 2 x 100 Mbps interfaces	4 units	6GK1901-1BK00-0AA1
	IE FC RJ45 modular outlet insert 1GE	Replaceable insert for FC modular outlet base, 1 x RJ45 for 1 x 1 000 Mbps interface	4 units	6GK1901-1BK00-0AA2
RJ45 outlet				
	IE FC outlet RJ45	For connection of Industrial Ethernet FC cables and TP cords	1 unit	6GK1901-1FC00-0AA0
M12 connectors and couplers				
	IE FC M12 plug PRO (D-coded)	M12 plug-in connector 2 x 2 (D-coded) with high degree of protection, 4-pin, for connecting electrical cables to SCALANCE X208PRO and SCALANCE XP-200, ET 200pro PN or ET 200eco PN, suitable for fast assembly with the FastConnect system	1 unit	6GK1901-0DB20-6AA0
			8 units	6GK1901-0DB20-6AA8
	IE M12 panel feedthrough (D-coded)	Cabinet bushing 2 x 2 for conversion of M12 (D-coded), connection system (IP65) to RJ45 connection system (IP20)	5 units	6GK1901-0DM20-2AA5
	IE M12 panel feedthrough PRO (D-coded)	Cabinet bushing 2 x 2 for conversion of M12 (D-coded), connection system (IP65) to M12 (D-coded) connection system (IP65)	5 units	6GK1901-0DM30-2AA5
	IE FC M12 plug PRO 4 x 2 (X-coded)	Cat6$_A$ M12 plug-in connector 4 x 2 (X-coded) with high degree of protection (IP65), 8-pin, for connecting electrical cables to SCALANCE W and SCALANCE XP-200 (Gigabit M12 interface), suitable for fast assembly with the FastConnect system	1 unit	6GK1901-0DB50-6AA0
			8 units	6GK1901-0DB50-6AA8
	IE M12 panel feedthrough (X-coded)	Cabinet bushing 4 x 2 for conversion of M12 (X-coded), connection system (IP65) to RJ45 connection system (IP20), Cat6$_A$	5 units	6GK1901-0DM40-2AA5
	IE FC M12 cable connector PRO (X-coded)	M12 plug-in connectors 4 x 2 (X-coded), for assembly in the field, socket, IP65/67, Cat6$_A$	1 unit	6GK1901-0DB40-6AA0
			8 units	6GK1901-0DB40-6AA8
	Control M12 Plug PRO (A-coded)	Connection plug for assembly in the field (A-coded), for connecting IO link sensors/actuators, 5-pole	1 unit	6GK1908-0DB10-6AA0
	Control M12 Cable Connector PRO (A-coded)	Connection socket for assembly in the field (A-coded), for connecting IO link sensors/actuators, 5-pole	1 unit	6GK1908-0DC10-6AA0
	Signaling contact M12 cable connector PRO (B-coded)	M12 connection socket (B-coded) for signaling contact, 5-pin, for connecting to SCALANCE X208PRO	3 units	6GK1908-0DC10-6AA3
	Power M12 cable connector PRO (A-coded)	M12 power connection socket (A-coded), 4-pin, for connecting to SCALANCE W-700/X208PRO and SCALANCE XP-200 for 24 V DC power supply	3 units	6GK1907-0DC10-6AA3
	Power M12 plug PRO (A-coded)	M12 power plug-in connector (A-coded), 4-pin, for connecting to Power Supply PS791-1PRO for 24 V DC power supply	3 units	6GK1907-0DB10-6AA3
	Power M12 Plug PRO (L-coded)	M12 connector plug (L-coded) for ET 200 with axial cable outlet for field assembly, pin insert (pin)	1 unit	6GK1906-0EA00
	Power M12 Cable Connector PRO (L-coded)	M12 cable connector (L-coded) for ET 200 with axial cable outlet for field assembly, socket insert (socket)	1 unit	6GK1906-0EB00
	M12 Power T-Tap	M12 Power T-Tap PRO (A-coded), power T-piece for SCALANCE XP-200 with 2 x M12 female contact inserts and 1 x M12 male contact insert	5 units	6GK1907-0DC00-6AA5

Electrical	Optical	Industrial Ethernet (IE) plugs		
	Product	Comments		Article number[1]
FO connectors (ST/BFOC, SC and LC)				
	FC FO LC plug	For on site assembly on FC fiber optic cables (62.5/200/230) (duplex plugs + cleaning cloths)	10 units	6GK1900-1RB00-2AB0
	FC SC coupler	SC duplex coupler for FastConnect assembly	5 units	6GK1900-1LP00-0AB0
	FC ST/BFOC plug	ST/BFOC plug-in connector, for connection of glass fiber optic cables, suitable for fast assembly with the FastConnect FO system, cleaning cloths	20 units	6GK1900-1GB00-0AC0
	FC ST/BFOC coupler	ST/BFOC coupler for FastConnect assembly	5 units	6GK1900-1GP00-0AB0
	Multimode FO ST/BFOC connector set	ST/BFOC connector set for connection of glass fiber optic cables	20 units	6GK1901-0DA20-0AA0
	Multimode FO SC duplex connector set	SC duplex connector set for connection of glass fiber optic cables	10 units	6GK1901-0LB10-2AA0
	FC FO termination kit (ST/BFOC)	Assembly case for on-site assembly of FC ST/BFOC connectors to FC fiber optic cables, including a stripping tool, Kevlar shears, fiber breaking tool and microscope	1 unit	6GK1900-1GL00-0AA0
	FC FO termination kit (LC)	FC LC plug assembly case for on-site assembly of FC LC connectors to FC fiber optic cables	1 unit	6GK1900-0RL00-0AA0
	IE SC RJ POF plug PRO	SC RJ plug-in connector for POF fiber optic cable, field assembly connector for push pull device connection with high degree of protection	1 unit	6GK1900-0MB00-6AA0
	IE SC RJ POF plug	SC RJ plug-in connector for POF fiber optic cables	20 units	6GK1900-0MB00-0AC0
	IE SC RJ PCF plug PRO	SC RJ plug-in connector for PCF fiber optic cables, field assembly connector for push pull device connection with high degree of protection	1 unit	6GK1900-0NB00-6AA0
	IE SC RJ PCF plug	SC RJ plug-in connector for PCF fiber optic cables	10 units	6GK1900-0NB00-0AC0
	Multimode FO LC duplex plug	LC connector set, for connecting to Ethernet/PROFINET devices with integrated optical multimode interface (SCALANCE XR-300EEC, XR-300, X308-2M)	1 unit	6GK1901-0RB10-2AB0

Electrical	PROFIBUS (PB) cables		
Product	Comments		Article number[1]
PROFIBUS bus cables			
PB FC standard cable GP	Standard bus cable, with special design for fast assembly, for permanent installation, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-0EH10
PB FC standard cable GP	Standard bus cable, 2-wire, in preferred length, shielded, special design for fast assembly	20 m	6XV1830-0EN20
		50 m	6XV1830-0EN50
		100 m	6XV1830-0ET10
		200 m	6XV1830-0ET20
		500 m	6XV1830-0ET50
		1 000 m	6XV1830-0EU10
PB FC standard cable IS GP	Standard bus cable, for fast assembly, used in intrinsically safe distributed I/O systems, for permanent installation, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1831-2A
PB FC robust cable	Special bus cable, used in environments subject to chemical and mechanical loads, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-0JH10
PB FC food cable	PB bus cable, for use in the food, beverages, and tobacco industries, sold by the meter, max. delivery quantity 1 000 m, minimum order quantity 20 m		6XV1830-0GH10
PB FC ground cable	Special bus cable, with additional protective jacket, used for installation in the ground, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-3FH10
PB FC flexible cable	Flexible bus cable, for occasionally moved machine parts, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1831-2K
PB FC trailing cable	Highly flexible bus cable, continuous motion control in a cable carrier, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-3EH10
PB FC trailing cable	Highly flexible bus cable, continuous motion control in a cable carrier, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1831-2L
PB festoon cable GP	Flexible bus cable, specially used for festoon suspension, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-3GH10
PB FC FRNC cable GP	Heavily flame-retardant and halogen-free bus cable, suitable for use in buildings, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-0LH10
PB torsion cable	Flexible bus cable, used in moved machine parts, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-0PH10
PB hybrid standard cable GP	Hybrid cable, data and power wires, trailable, for supplying data and power to ET 200pro, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1860-2R
PB hybrid robust cable	Hybrid cable, data and power wires, robust, for supplying data and power to ET 200pro under conditions with high mechanical load, cable resistant to splatter in accordance with HD22.2 S3 / 5, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1860-2S
PB FC process cable, blue	Bus cable for IEC 61158-2, 2-wire, for Ex applications, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-5EH10
PB FC process cable, black	Bus cable for IEC 61158-2, 2-wire, for non-Ex applications, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-5FH10
Foundation Fieldbus cable, blue	Bus cable for IEC 61158-2, 2-wire, for Ex applications, stranded drain wire, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-5GH10
Foundation Fieldbus cable, yellow	Bus cable for IEC 61158-2, 2-wire, for non-Ex applications, stranded drain wire, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-5HH10
Special bus cables			
SIENOPYR PROFIBUS marine cable	Bus cable, 2-wire, for installation on ships and offshore platforms, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-0MH10

Electrical	PROFIBUS (PB) cables		
Product	Comments		Article number[1]
ECOFAST bus cables			
PROFIBUS ECOFAST cable	Open-ended ECOFAST hybrid cable, data and power wires, for connecting ECOFAST devices, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1830-7AH10
	Prefabricated with ECOFAST plug and socket, fixed length	0.5 m	6XV1830-7BH05
		1.0 m	6XV1830-7BH10
		1.5 m	6XV1830-7BH15
		3.0 m	6XV1830-7BH30
		5.0 m	6XV1830-7BH50
		10 m	6XV1830-7BN10
		15 m	6XV1830-7BN15
		20 m	6XV1830-7BN20
PROFIBUS ECOFAST hybrid cable GP	Open-ended trailing-type cable with 4 x Cu and 2 x Cu, shielded, with UL approval, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m		6XV1860-2P
	Prefabricated with ECOFAST plug and socket	0.5 m	6XV1860-3PH05
		1.0 m	6XV1860-3PH10
		1.5 m	6XV1860-3PH15
		3.0 m	6XV1860-3PH30
		5.0 m	6XV1860-3PH50
		10 m	6XV1860-3PN10
		15 m	6XV1860-3PN15
		20 m	6XV1860-3PN20
Plug-in cables (prefabricated cables)			
PB plug-in cable 830-1T	Prefabricated plug-in cable, with two 9-pin sub-D connectors, for connection of PROFIBUS devices to OLM or OBT, preferred length	1.5 m	6XV1830-1CH15
		3.0 m	6XV1830-1CH30
PB plug-in cable 830-2	Prefabricated plug-in cable including PROFIBUS standard cable with two 9-pin connectors, for connection of PROFIBUS devices (e.g., HMI) to automation devices, preferred length	3.0 m	6XV1830-2AH30
		5.0 m	6XV1830-2AH50
		10 m	6XV1830-2AN10
PB M12 plug-in cable (B-coded)	Prefabricated, flexible plug-in cable, with two 5-pin M12 male/female connectors (B-coded), for connecting PROFIBUS devices (e.g., SIMATIC ET 200), in IP65 degree of protection, preferred length	0.3 m	6XV1830-3DE30
		0.5 m	6XV1830-3DE50
		1.0 m	6XV1830-3DH10
		1.5 m	6XV1830-3DH15
		2.0 m	6XV1830-3DH20
		3.0 m	6Xv1830-3DH30
		5.0 m	6XV1830-3DH50
		10 m	6XV1830-3DN10
		15 m	6XV1830-3DN15

Cabling technology for communication networks in industry

Optical	PROFIBUS (PB) cables		
Product	Comments		Article number[1]
FO cables			
PB POF standard cable	Robust round cable with 2 plastic fiber optic cores, PVC outer sheath and PA inner sheath, for indoor installation, sold by the meter, max. delivery unit 500 m, minimum order quantity 20 m		6XV1821-0AH10
	Ring	50 m	6XV1821-0AN50
		100 m	6XV1821-0AT10
	Prefabricated with 2 x 2 ST/BFOC connectors, preferred length, lash length 20 cm each, for connecting OLM/P	1.0 m	6XV1821-0BH10
		2.0 m	6XV1821-0BH20
		5.0 m	6XV1821-0BH50
		10 m	6XV1821-0BN10
		15 m	6XV1821-0BN15
		20 m	6XV1821-0BN20
		25 m	6XV1821-0BN25
		30 m	6XV1821-0BN30
		50 m	6XV1821-0BN50
		65 m	6XV1821-0BN65
		80 m	6XV1821-0BN80
PB PCF standard cable	Prefabricated PCF fiber optic cable with 2 cores, PVC outer jacket, for covering longer distances up to 400 m, with 2 x 2 ST/BFOC connectors, lash length 20 cm each, with insertion tool mounted on one end, for connecting OLM/P, preferred length	75 m	6XV1821-1BN75
		100 m	6XV1821-1BT10
		150 m	6XV1821-1BT15
		200 m	6XV1821-1BT20
		250 m	6XV1821-1BT25
		300 m	6XV1821-1BT30
		400 m	6XV1821-1BT40
PB PCF standard cable GP 200/230	Standard cable, segmentable, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m		6XV1861-2A
	Prefabricated with 2 × 2 ST/BFOC connectors, preferred length	75 m	6XV1861-3AN75
		100 m	6XV1861-3AT10
		150 m	6XV1861-3AT15
		200 m	6XV1861-3AT20
		250 m	6XV1861-3AT25

Electrical	Optical	PROFIBUS (PB) connectors		
	Product	**Comments**		**Article number[1]**
PROFIBUS bus connectors				
	PB FC RS 485 plug 180	FastConnect bus connector with insulation displacement method, max. transfer rate 12 Mbps, 180° cable outlet (without PG interface)	1 unit	6GK1500-0FC10
	PB FC RS 485 plug 90	90° cable outlet (without PG interface)	1 unit	6ES7972-0BA52-0XA0
			100 units	6ES7972-0BA52-0XB0
		90° cable outlet (without PG interface, grounding via control cabinet contact surface)	1 unit	6ES7972-0BA70-0XA0
		90° cable outlet (with PG interface)	1 unit	6ES7972-0BB52-0XA0
			100 units	6ES7972-0BB52-0XB0
		90° cable outlet (with PG interface, grounding via control cabinet contact surface)	1 unit	6ES7972-0BB70-0XA0
	PB FC RS 485 plug 35	35° cable outlet (without PG interface)	1 unit	6ES7972-0BA61-0XA0
		35° cable outlet (with PG interface)	1 unit	6ES7972-0BB61-0XA0
	PB RS 485 plug 180	Bus connector in screw-type connection system, max. transmission rate 12 Mbps, 180° cable outlet (without PG interface, metal enclosure)	1 unit	6GK1500-0EA02
	PB RS 485 plug 90	90° cable outlet (without PG interface)	1 unit	6ES7972-0BA12-0XA0
		90° cable outlet (with PG interface)	1 unit	6ES7972-0BB12-0XA0
	PB RS 485 plug 35	35° cable outlet (without PG interface)	1 unit	6ES7972-0BA42-0XA0
		35° cable outlet (with PG interface)	1 unit	6ES7972-0BB42-0XA0
	PB RS 485 plug 30	30° cable outlet (low-cost version, max. transmission rate 1.5 Mbps)	1 unit	6ES7972-0BA30-0XA0
	SIMATIC S5/S7 plug-in cable	Prefabricated connecting cable with two 9-pin sub-D plugs, max. transmission rate 12 Mbps, 3 m	1 unit	6ES7901-4BD00-0XA0
	ECOFAST hanbrid connector	PROFIBUS bus connector Cu with 2 x Cu shielded and 4 x Cu 1.5 mm², contact type: for connecting to ECOFAST hybrid cables, transmission of data and power, tool: crimping tool, with installation instructions and male contact insert	5 units	6GK1905-0CA00
		With installation instructions and female contact insert	5 units	6GK1905-0CB00
		PROFIBUS ECOFAST hybrid plug angled, with 2 x Cu shielded and 4 x Cu 1.5 mm², for connecting to ECOFAST hybrid cables, transmission of data and power, with installation instructions and male contact insert	5 units	6GK1905-0CC00
		With installation instructions and female contact insert	5 units	6GK1905-0CD00
	ECOFAST terminating plug	Bus terminator plug-in connector for PROFIBUS DP, with 2 x Cu and 4 x Cu 1.5 mm², as termination plug-in connector for PROFIBUS DP, male contact insert, integrated termination resistors	1 unit	6GK1905-0DA10
			5 units	6GK1905-0DA00
Connectors for assembly in the field				
	PB M12 plug-in connector (B-coded)	M12 plug-in connector with male contact insert (B-coded), 5-pin, for connecting electrical PB bus cables to ET 200	5 units	6GK1905-0EA00
		M12 plug-in connector with male contact insert (B-coded), 5-pin, female contact insert, for connecting electrical PB bus cables to ET 200	5 units	6GK1905-0EB00
	PB FC M12 plug PRO (B-coded)	M12 plug-in connector with male contact insert (B-coded), 5-pin, for connecting electrical PB FC bus cables to ET 200pro, suitable for fast assembly with the FastConnect system	1 unit	6GK1905-0EA10-6AA0
			5 units	6GK1905-0EA10
	PB FC M12 cable connector PRO (B-coded)	M12 plug-in connector for assembly in the field (B-coded), 5-pin, metal enclosure, FastConnect connection system, female contact insert, for connecting electrical PB FC bus cables to ET 200pro, suitable for fast assembly with the FastConnect system	1 unit	6GK1905-0EB10-6AA0
			5 units	6GK1905-0EB10
	PB plastic fiber optic, ST/BFOC connector set	20 ST/BFOC connectors for assembly of PROFIBUS plastic fiber optic cables for OLM/P	1 unit	6GK1905-1PA00
	PCF-ST/BFOC plug	20 screw connectors for on-site assembly on PCF fiber optic cables, with cleaning material	1 unit	6GK1900-0HB00-0AC0
	7/8" plug-in connector	7/8" connection plug with male contact insert, 5-pin, for field assembly, for ET 200	5 units	6GK1905-0FA00
		7/8" connection plug with female contact insert, 5-pin, for field assembly, for ET 200	5 units	6GK1905-0FB00

Electrical	Optical	Accessories for Industrial Ethernet (IE) and PROFIBUS (PB)	
	Product	Comments	Article number[1]
	SIMATIC NET Manual Collection	Electronic manuals for communication systems, communication protocols and communication products, on DVD, German/English	6GK1975-1AA00-3AA0
	IE FC stripping tool	Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	6GK1901-1GA00
	IE FC blade cassettes	Replacement blade cassette, for IE FC RJ45 outlet, ELS TP40, 5 units, 12 mm	6GK1901-1GB00
		Replacement blade cassette, for IE FC RJ45 plugs and IE FC RJ45 modular outlet, 5 units, 5 mm	6GK1901-1GB01
	IE SC RJ POF refill set	Refill set for termination kit SC RJ POF plug consisting of abrasive paper and grinding disc (5er set)	6GK1900-0MN00-0AA0
	PB FastConnect stripping tool	Pre-adjusted stripping tool for fast stripping of PROFIBUS FastConnect bus cables	6GK1905-6AA00
	PB FastConnect blade cassettes	Spare blade cassettes for PROFIBUS FastConnect stripping tool, 5 units	6GK1905-6AB00
	PB plastic fiber optic, stripping tool set	Tools for removing the outer sheath or core sheath of PROFIBUS plastic fiber optic cables	6GK1905-6PA10
	PB plastic fiber optic, crimping tool ST/BFOC	For assembly of ST/BFOC connectors on PROFIBUS plastic fiber optic cables	6GK1905-6PB00
	PB plastic fiber optic, polishing set ST/BFOC	Polishing set for grinding and polishing the ST/BFOC connector face, for PROFIBUS plastic fiber optic cables with OLM/P	6GK1905-6PS00
	7/8" Power T-Tap PRO	Power T-piece with two 7/8" female contact inserts and one 7/8" male contact insert, to connect and distribute power to ET 200pro modules, each 5-pin, 1 package = 5 units	6GK1905-0FC00
	FC FO termination kit (ST/BFOC)	Assembly case for on-site assembly of FC ST/BFOC connectors to FC fiber optic cables, including a stripping tool, Kevlar shears, fiber breaking tool and, microscope	6GK1900-1GL00-0AA0
	FC FO termination kit (LC)	FC FO termination kit, FC LC plug assembly case for on-site assembly of FC LC connectors to FC fiber optic cables	6GK1900-0RL00-0AA0
	Termination kit SC RJ POF plug	Assembly case for on-site assembly of SC RJ POF connectors, including a stripping tool, Kevlar shears, SC RJ grinding disc, abrasive paper, grinding base, and microscope	6GK1900-0ML00-0AA0
	Termination kit SC RJ PCF plug	Assembly case for on-site mounting of SC RJ PCF connectors, including a stripping tool, buffer stripping tool, Kevlar shears, fiber breaking tool, and microscope	6GK1900-0NL00-0AA0
	Termination kit simplex PCF plug	Assembly case for on-site assembly of PCF simplex connectors, including a stripping tool, buffer stripping tool, Kevlar shears, fiber breaking tool, crimping tool, and microscope	6GK1900-0KL00-0AA0
	Termination kit PCF-ST/BFOC plug	Assembly case for on-site assembly of PCF-ST/BFOC connectors, including a stripping tool, buffer stripping tool, Kevlar shears, fiber breaking tool, and microscope	6GK1900-0HL00-0AA0

[1] Current ordering data can be found on the Internet:
www.siemens.com/industrymall

Conditions of sale and delivery can be found at:
https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

[2] Also suitable for PROFIBUS

You can find additional information on the SIMATIC NET range of cabling products at:
www.siemens.com/fastconnect

Find the right FastConnect components directly in the TIA Selection Tool configurator:
https://www.siemens.com/tstcloud/?node=CablesAndPlugs

Notes:

Cables sold by the meter are always supplied
on wooden drums for lengths longer than 300 m.

You can receive technical advice on the SIMATIC NET
range of cabling products from:

J. Hertlein DI PA DCP IWA
Tel.: +49 (172) 3172810
E-mail: **juergen.hertlein@siemens.com**

Security information

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