

**SIEMENS**



**SIMATIC NET**

# Cabling technology for communication networks in industry

based on Industrial Ethernet/PROFINET  
and PROFIBUS

Ordering  
overview

Edition  
03/2020

[siemens.com/fastconnect](https://www.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 connection 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:

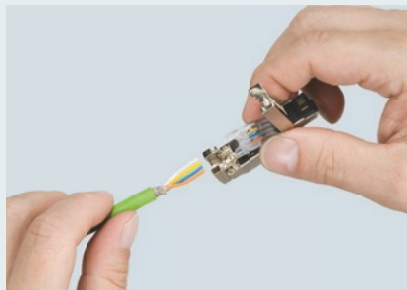
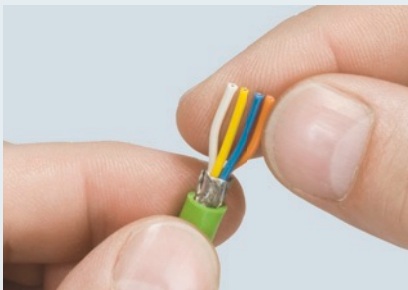
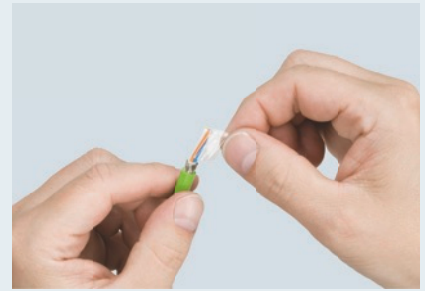
- Coordinated system of FC plug-in connectors and an extensive FC cable spectrum for a wide variety of requirements in the industrial sector and energy automation
- UL approvals for Industrial Ethernet, PROFINET, EtherNet/IP and PROFIBUS enable worldwide use
- Avoidance of errors thanks to color coding, 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 EN45545 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

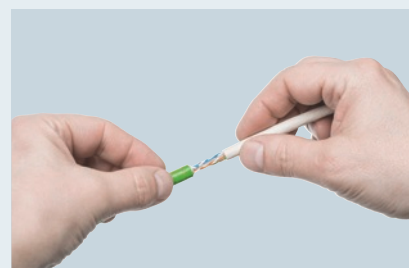
## FastConnect for Industrial Ethernet/PROFINET: Prefabricated with RJ45 plug-in connector 4 x 2



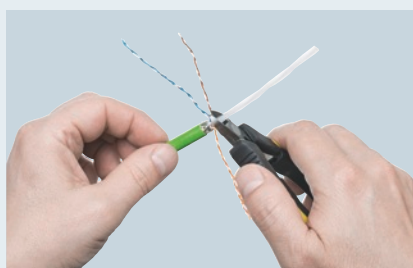
Measure the cable end



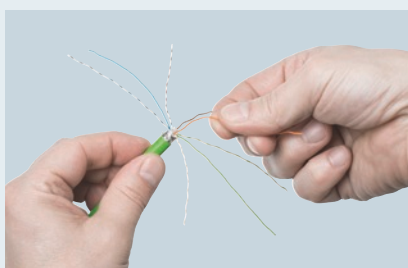
Cut the cable end with the FastConnect stripping tool



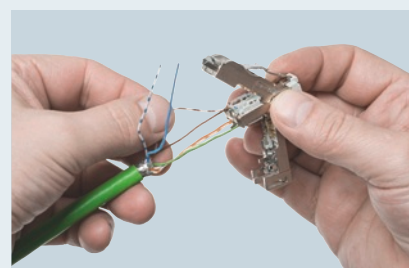
Remove the outer sheath and expose the braided shield



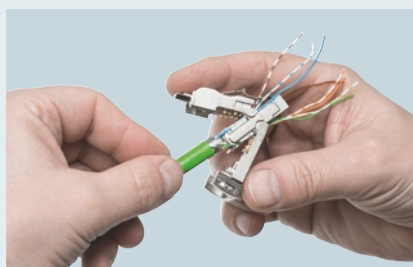
Remove the interior support cross



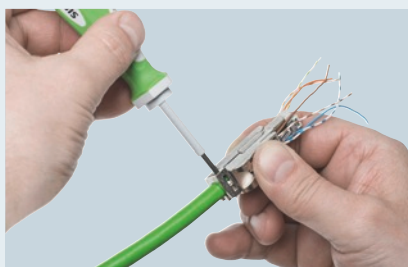
Unravel and smooth out the twisted wires



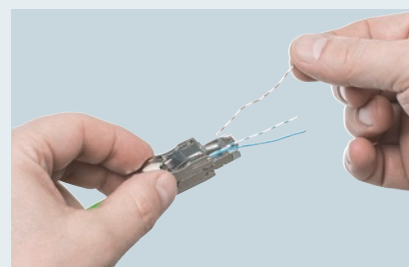
Insert the wires into the plug according to color code and pull them out the opposite side



Press the plug casing to close it



Fasten the casing using a screwdriver



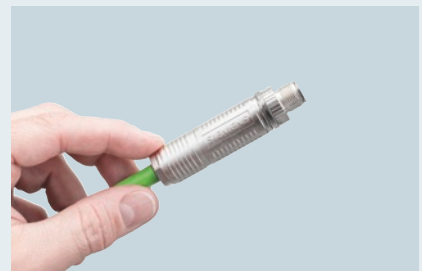
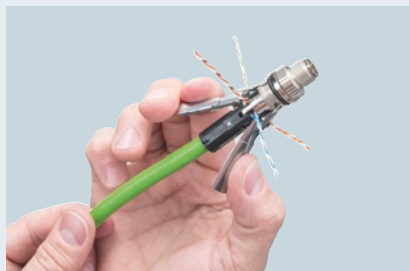
Remove protruding wires

### 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.



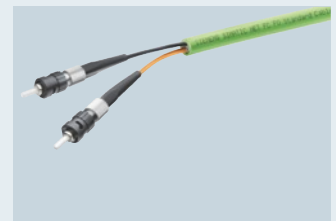
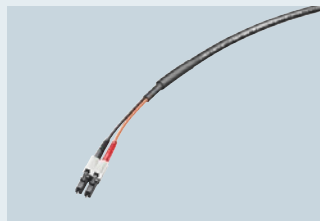
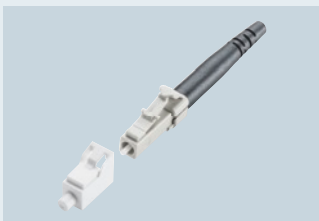
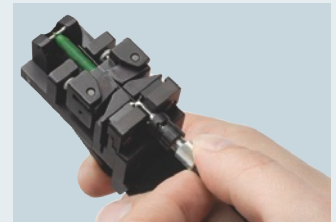
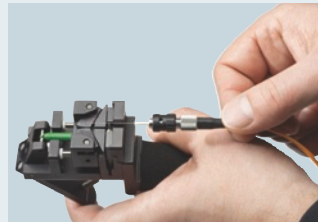
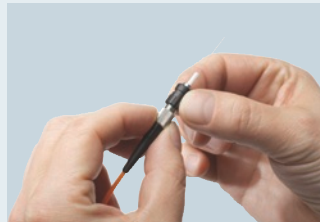
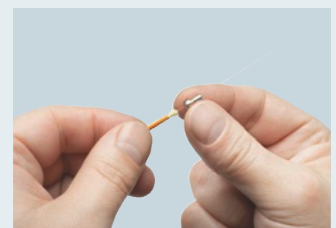
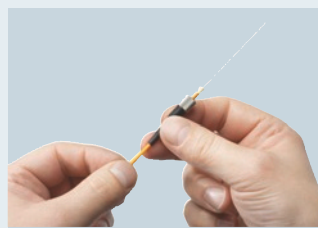
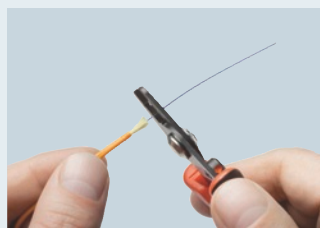
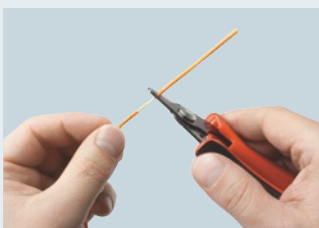
*Prefabricated with M12 plug-in connector 2 x 2*



*Prefabricated with M12 plug-in connector 4 x 2*

### FastConnect (FC) LC und 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																	
		Connection options with connectors, terminals or devices (IE)																			
		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 RF-45 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	
	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											●								
		L-coded															●				
		2 x 2 D-coded					●														
		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 <sup>1)</sup>		
<b>Industrial Ethernet FastConnect cables 2 x 2 with 10/100 Mbps</b>				
	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, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m, Cat5	6XV1841-2A		
IE FC TP flexible cable GP (type B)	Flexible bus cable 2 x 2, for occasionally moved machine parts, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m, Cat5	6XV1870-2B		
	Flexible bus cable 2 x 2, for occasionally moved machine parts, delivery unit 1 000 m, Cat5	6XV1870-2BU10		
IE FC robust flexible cable GP (type B)	Robust, flexible bus cable 2 x 2, for harsh industrial environments, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m, Cat5	6XV1841-2B		
IE FC TP FRNC cable GP (type B)	Flexible, halogen-free bus cable 2 x 2, for occasionally moved machine parts, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m, Cat5		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), sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat5	6XV1870-2F	
	IE FC TP Trailing cable (type C)	TP installation cable for Connection to FC outlet RJ45, for cable carrier applications, 4-core, shielded Cat5, Sold by the meter (4 million bending cycles), delivery unit max. 2 000 m, Minimum order 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, sold by the meter, max. delivery unit 2 000 m, minimum order quantity 20 m, Cat5	6XV1870-2D	
	IE connecting cable M12-180/M12-180	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
	IE connecting cable M12-90/M12-90	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/IE FC RJ45 plug 145	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
IE Connecting cable M12-90/IE FC RJ45 Plug-180	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 Robust Ground Cable 2x2 (type C)	IE robust ground cable 2x2, Cat5e, Underground laying cable, 4-core shielded with rodent protection, sold by the meter, delivery unit max. 1000 m, minimum order 20 m	6XV1871-2N	










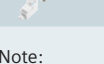


Electrical		Industrial Ethernet (IE) cables		
	Product	Comments	Article number <sup>1)</sup>	
<b>Industrial Ethernet FastConnect cables 2 x 2 with 10/100 Mbps (continued)</b>				
	IE FC TP robust food cable GP (type C)	TP installation cable 2 x 2 for use in the food, beverages and tobacco industries, 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	Prefabricated IE robust connecting cable 2 x 2 M12-180/M12-180, IP69, with two M12 connectors (D-coded), sold by the meter	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, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat5e	6XV1871-2L	
	IE FC TP marine cable (type B)	Bus cable 2 x 2 for marine and offshore use, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat5e	6XV1840-4AH10	
	IE FC TP festoon cable GP (type B)	Bus cable 2 x 2 for festoon mounting, Cat5e, min. 5 million bending cycles, sold by the meter, 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, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m	6XV1871-2G	
	IE TP train cable GP 2 (type C)	Bus cable 2 x 2 for special applications in trains, certified for railway applications, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat5e	6XV1871-2T	
<b>Industrial Ethernet FastConnect cables 4 x 2 for 1 Gbps and 10 Gbps</b>				
	IE FC TP standard cable GP	Standard bus cable 4 x 2, AWG22, Cat6, standard cable with rigid cores for fast assembly, for permanent installation, 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, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat6a	1 000 m	6XV1878-2A
				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, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat6a	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, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat7	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, Cat6a, shielded cable 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	6XV1878-2G	
<b>IE hybrid cable</b>				
	IE hybrid cable	Ethernet hybrid cable 2 x 2 + 4 x 0.34 for transmission of data and power, sold by the meter, max. delivery unit 1 000 m, minimum order quantity 20 m, Cat5	6XV1870-2J	

Electrical		Industrial Ethernet (IE) cables		
	Product	Comments	Article number <sup>1)</sup>	
<b>Power cables</b>				
	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, 4x 1.5 mm <sup>2</sup> , trailable, sold by the meter, delivery unit: max. 1000 m, minimum order 20 m		6XV1801-2B
	M12 robust power connecting cable M12-180/M12-180	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 <sup>2)</sup>	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	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	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			



<sup>2)</sup> Also suitable for PROFIBUS






Electrical		Industrial Ethernet (IE) cables		
	Product	Comments		Article number <sup>1)</sup>
IE TP cord – Easy connection of terminal devices to the IE FC cabling system				
	IE TP cord RJ45/RJ45	Prefabricated 8-wire Cat6 <sub>A</sub> 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 XP cord RJ45/RJ45	Prefabricated twisted 8-wire Cat6 <sub>A</sub> 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	Prefabricated flexible Cat6 <sub>A</sub> 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	Prefabricated Cat6 <sub>A</sub> IE flexible cable with 2 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			




		Optical		Industrial Ethernet (IE) cables											
		Connection options with connectors, terminals or devices													
		Fiber optic cables 50/125/1 400 µm	Fiber optic cables 62.5/125 µm	PCF fiber optic cables 200/230 µm	Fiber optic cables with ST/BFOC connector	Fiber optic cables with SC connectors	Fiber optic cables with LC connector	POF fiber optic cables 980/1 000 µm	Fiber optic cable with SC RJ connector	Fiber optic cables with LC connector	Fiber optic cables with FC connector	Fiber optic cables with FC connector			
		FO standard cable GP FO trailing cable FO trailing cable GP FO ground cable	Fiber optic standard cable INDOOR fiber optic cable Flexible fiber optic trailing cable SIENOPYR marine duplex fiber optic cable	PCF standard cable GP PCF trailing cable GP PCF trailing cable	Prefabricated fiber optic cables with ST/BFOC connector	Prefabricated fiber optic cables with SC connector	Prefabricated fiber optic cables with LC connector	POF standard cable GP POF trailing cable	Prefabricated fiber optic cables with SC RJ connector	FO rugged cable GP (4E9/1 25/900)	FO rugged cable GP (50/1 25/900) FO standard cable GP (50/1 25) FO trailing cable GP (50/1 25)	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										●				
	Singlemode 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 <sup>1)</sup>	
<b>FC glass fiber optic cables</b>				
	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	
<b>Glass fiber optic cables</b>				
	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 <sup>1)</sup>				
<b>Glass fiber optic cables (continued)</b>							
	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	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		
			Prefabricated with 2 x SC duplex connectors	20 m	6XV1873-5CN20		
				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 lengths	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 lengths	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 lengths				100 m	6XV1873-3GT10		
				200 m	6XV1873-3GT20		
				300 m	6XV1873-3GT30		
Prefabricated with 2 x SC duplex connectors, preferred lengths				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
	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 <sup>1)</sup>	
<b>Glass fiber optic cables (continued)</b>				
	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 lengths		
			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 lengths		
			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 lengths		
			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 <sup>1)</sup>	
<b>Glass fiber optic cables (continued)</b>					
	Fiber optic multimode cord	Prefabricated multimode glass fiber optic cable, SC/SC, 50/125, with 2 x SC duplex connectors	1.0 m	6XV1843-5EH10-0CCO	
		Prefabricated multimode glass fiber optic cable, SC/ST/BFOC, 50/125, with 1 x SC duplex connector and 2 x ST/BFOC connector	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	6XV1843-5FH10-0CCO	
		Prefabricated singlemode glass fiber optic cable, SC/ST/BFOC, 9/125, with 1 x SC duplex connector and 2 x ST/BFOC connector	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, 50/125, 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	
<b>Special bus cable</b>					
	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	
<b>POF and PCF fiber optic cables</b>					
	POF standard cable GP 980/1000 <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>2)</sup>	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 lengths, 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 <sup>2)</sup>	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 lengths, pulling aid	75 m	6XV1861-3CN75
				100 m	6XV1861-3CT10
	150 m	6XV1861-3CT15			
	PCF trailing cable GP200/230 <sup>2)</sup>	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	





<sup>2)</sup> Also suitable for PROFIBUS



Electrical		Optical	Industrial Ethernet (IE) plugs		
	Product	Comments		Article number <sup>1)</sup>	
<b>IE FC RJ45 plug 2 x 2</b>					
	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	
<b>IE FC RJ45 plug 4 x 2</b>					
	IE FC RJ45 plug 180	Cat6 <sub>A</sub> 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	
<b>IE FC Keystone RJ45 4 x 2</b>					
	IE FC Keystone RJ45 4 x 2	Field assembly RJ45 outlet, 8 pole, Cat6 <sub>A</sub> , metal enclosure, FC quick connection method, for standard rail mounting and 19" panel	1 unit	6GK1901-0BE10-0AA0	
	IE Cable SFP+/SFP+	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	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	
<b>IE push-pull plug PRO</b>					
	IE FC RJ45 plug PRO	FastConnect RJ45 data connector, 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, 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	
<b>Modular outlet</b>					
	IE FC RJ45 modular outlet	Without replaceable insert	1 unit	6GK1901-1BE00-0AA0	
		With 2FE insert, replaceable insert for 2 x 100 Mbps interface	1 unit	6GK1901-1BE00-0AA1	
		With 1GE insert, replaceable insert for 1 x 1 000 Mbps interfaces	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	



Electrical		Optical	Industrial Ethernet (IE) plugs		
Product		Comments		Article number <sup>1)</sup>	
<b>RJ45 outlet</b>					
	IE FC outlet RJ45	For connection of Industrial Ethernet FC cables and TP cords, sliding-scale prices for 10 and 50 units	1 unit	6GK1901-1FC00-0AA0	
<b>M12 connectors and couplers</b>					
	IE FC M12 plug PRO	M12 plug-in connector 2 x 2 with high degree of protection, 4-pin, D-coded, 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 8 units	6GK1901-0DB20-6AA0 6GK1901-0DB20-6AA8	
	IE M12 panel feedthrough	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	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	Cat6a M12 plug-in connector 4 x 2 with high degree of protection (IP65), 8-pin, X-coded, for connecting electrical cables to SCALANCE W and SCALANCE XP-200 (Gigabit M12 interface) suitable for fast assembly with the FastConnect system	1 unit 8 units	6GK1901-0DB50-6AA0 6GK1901-0DB50-6AA8	
	IE M12 panel feedthrough	Cabinet bushing 4 x 2 for conversion of M12, X-coded, connection system (IP65) to RJ45 connection system (IP20)	5 units	6GK1901-0DM40-2AA5	
	IE FC M12 cable connector PRO	M12 plug-in connectors for assembly in the field 4 x 2, socket, X-coded, (IP65/67)	1 unit 8 units	6GK1901-0DB40-6AA0 6GK1901-0DB40-6AA8	
	Signaling contact M12 cable connector PRO	M12 connection socket for signaling contact, 5-pin, B-coded, for connecting to SCALANCE X208PRO	3 units	6GK1908-0DC10-6AA3	
	Power M12 cable connector PRO	M12 power connection socket, 4-pin, A-coded, 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	M12 power plug-in connector, 4-pin, A-coded, 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 for ET 200 with axial cable outlet for field assembly, pin insert, L-coded (pin)	1 unit	6GK1906-0EA00	
	Power M12 Cable Connector PRO (L-coded)	M12 cable connector for ET 200 with axial cable outlet for field assembly, socket insert L-coded (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	
<b>FO connectors (ST/BFOC, SC and LC)</b>					
	FC FO LC plug	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	6GK1900-1GB00-0ACO	
	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, comprising a stripping tool, Kevlar shears, fiber breaking tool and microscope	1 unit	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	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	6GK1900-0MB00-0ACO	
	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	6GK1900-0NB00-0ACO	
	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	
	Singlemode FO LC duplex plug	LC connector set, for connecting to Ethernet/PROFINET devices with integrated optical singlemode interface (SCALANCE XR-300EEC, XR-300, X308-2M)	1 unit	6GK1901-0SB10-2AB0	














Electrical		PROFIBUS (PB) cables		
	Product	Comments		Article number <sup>1)</sup>
<b>PROFIBUS bus cables</b>				
	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 lengths, 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	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
<b>Special bus cables</b>				
	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 <sup>1)</sup>	
<b>ECOFAST bus cables</b>					
	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				
<b>Plug-in cables (prefabricated cables)</b>					
	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 lengths	1.5 m	6XV1830-1CH15	
			3.0 m	6XV1830-1CH30	
	PB plug-in cable 830-2	Prefabricated plug-in cable comprising PROFIBUS standard cable with two 9-pin connectors, for connection of PROFIBUS devices (e.g. HMI) to automation devices, preferred lengths	3.0 m	6XV1830-2AH30	
			5.0 m	6XV1830-2AH50	
			10 m	6XV1830-2AN10	
	PB M12 plug-in cable	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				

Additional special lengths with 90° or 180° cable outlet

See <http://support.automation.siemens.com/WW/view/en/26999294>

Optical		PROFIBUS (PB) cables		
	Product	Comments	Article number <sup>1)</sup>	
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	50 m ring	6XV1821-0AN50
			100 m ring	6XV1821-0AT10
		Prefabricated with 2 x 2 ST/BFOC connectors, preferred lengths, 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
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 x 2 ST/BFOC connectors, preferred lengths	75 m
		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 <sup>1)</sup>		
<b>PROFIBUS bus connectors</b>				
	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
	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 mm <sup>2</sup> , contact type: POF, Han D for 24 V, for connecting to ECOFAST hybrid cables, transmission of data and power, tool: crimping tool, polishing set, with installation instructions with male contact insert	5 units	6GK1905-0CA00
		With installation instructions with female contact insert	5 units	6GK1905-0CB00
		PROFIBUS ECOFAST hybrid plug angled, with 2 x Cu shielded and 4 x Cu 1.5 mm <sup>2</sup> , for connecting to ECOFAST hybrid cables, transmission of data and power, with installation instructions male contact insert	5 units	6GK1905-0CC00
		With installation instructions female contact insert	5 units	6GK1905-0CD00
	ECOFAST terminating plug	ECOFAST terminating plug bus terminator plug-in connector for PROFIBUS DP, with 2 x Cu and 4 x Cu 1.5 mm <sup>2</sup> , as termination plug-in connector for PROFIBUS DP, male contact insert, integrated termination resistors	1 unit	6GK1905-0DA10
			5 units	6GK1905-0DA00
<b>Connectors for assembly in the field</b>				
	PB M12 plug-in connector	M12 plug-in connector with male contact insert, 5-pin, B-coded, male contact insert, for connecting electrical PB bus cables to ET 200	5 units	6GK1905-0EA00
		M12 plug-in connector with male contact insert, 5-pin, B-coded, female contact insert, for connecting electrical PB bus cables to ET 200	5 units	6GK1905-0EB00
	PB FC M12 plug PRO	M12 plug-in connector with male contact insert, 5-pin, B-coded, 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	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
	7/8" plug-in connector	7/8" connection plug with male contact insert, 5-pin For field assembly for ET 200	5 unit	6GK1905-0FA00
		7/8" connection plug with female contact insert, 5-pin For field assembly for ET 200	5 unit	6GK1905-0FB00
	ST/BFOC plug	20 screw connectors for on site assembly on PCF fiber optic cables, with cleaning material	1 unit	6GK1900-0HB00-0AC0

Electrical	Optical	Accessories for Industrial Ethernet (IE) and PROFIBUS (PB)	
Product	Comments	Article number <sup>1)</sup>	
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, comprising 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, comprising 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, comprising a stripping tool, buffer stripping tool, Kevlar shears, fiber breaking tool, microscope	6GK1900-0NL00-0AA0	
 Termination kit simplex plug	Assembly case for on-site assembly of PCF simplex connectors, comprising a stripping tool, buffer stripping tool, Kevlar shears, fiber breaking tool, crimping tool and microscope	6GK1900-0KL00-0AA0	
Termination kit ST/BFOC plug	Assembly case for on-site assembly of ST/BFOC connectors, comprising a stripping tool, buffer stripping tool, Kevlar shears, fiber breaking tool and microscope	6GK1900-0HL00-0AA0	

<sup>1)</sup> Current ordering data can be found on the Internet:

[www.siemens.com/industrymall](http://www.siemens.com/industrymall)

Conditions of sale and delivery can be found at:

[www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

You can find additional information on the SIMATIC NET range of cabling products at:

[www.siemens.com/fastconnect](http://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 of 400 m or more.

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

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