

Industrial Cabling Technology

A fault-free connection on-site 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 if cables are connected incorrectly.

The quick-assembly system FastConnect from Siemens is the right system:

- For the installation of industry-standard network structures within the shortest possible time, without specialist knowledge, with perfectly matched components
- Minimal time spent connecting terminals
- To avoid installation errors
- For easy assembly on-site and reduced overall costs during the lifespan of the system

FastConnect consists of a cable, connector and tool and can be used for Industrial Ethernet/PROFINET and PROFIBUS.

With 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 method for Industrial Ethernet FastConnect cables
- Easy assembly thanks to preset FastConnect stripping tool
- Reliable shield contacting and strain relief
- M12 and RJ45 connection method for Industrial Ethernet/PROFINET and PROFIBUS

The advantages add up with FastConnect

With the FastConnect (FC) system for Industrial Ethernet, structured cabling from the office environment becomes industry-standard for installation in production halls:

- An integrated system of FC plug-in connectors and an extensive range of FC cables with appropriate UL approvals for Industrial Ethernet/PROFINET and PROFIBUS
- Error avoidance through the use of color coding, preset tools, and clearly specified materials
- Dependable screen contacts and strain relief as well as good EMC shielding for copper cabling
- The use of standard-compliant connection technology for Industrial Ethernet/PROFINET and PROFIBUS
- Complies with environmental conditions according to IEC 61850-3



Electrical Industrial Ethernet cables				
	Product	Comments		Article no. *)
IE TP Cord – Simple connection of terminals to the IE FC cabling system (continued)				
	IE TP XP Cord RJ45/RJ45	Twisted 8-core Cat6 _A patch cord, preferred length, pre-assembled with two RJ45 connectors	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	TP connecting cable 2 x 2 for connecting data terminals with RJ45 interfaces to the ITP cabling system; with a 15-pole Sub D socket with slide locking and an RJ45 connector	0,5 m	6XV1850-2EE50
			2,0 m	6XV1850-2EH20
	IE TP XP Cord 9/RJ45	Twisted TP cable 2 x 2 with one 9-pole sub D connector and one RJ45 connector	0,5 m	6XV1850-2ME50
1,0 m			6XV1850-2MH10	
2,0 m			6XV1850-2MH20	
6,0 m			6XV1850-2MH60	
10 m			6XV1850-2MN10	
	IE TP XP Cord RJ45/15	Crossed TP cable 2 x 2 with one 15-pole sub D connector and one RJ45 connector	0,5 m	6XV1850-2SE50
1,0 m			6XV1850-2SH10	
2,0 m			6XV1850-2SH20	
6,0 m			6XV1850-2SH60	
10 m			6XV1850-2SN10	
	IE TP Cord 9-45/RJ45	TP cable 2 x 2 with one RJ45 connector and one Sub D connector with 45° cable outlet (not for OSM/ESM)	1,0 m	6XV1850-2NH10
	IE TP XP Cord 9-45/RJ45	Twisted TP cable 2 x 2 with one RJ45 connector and one Sub D connector with 45° cable outlet (not for OSM/ESM)	1,0 m	6XV1850-2PH10
	IE TP Cord RJ45/15	TP cable 2 x 2 with one 15-pole 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	TP cable 2 x 2 with one 9-pole 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	Twisted TP cable 2 x 2 for direct connection of two Industrial Ethernet components with an ITP interface with two 9-pole Sub D connectors	1,0 m	6XV1850-2RH10
Pre-assembled IE Connecting Cables				
	IE Connecting Cable M12-180/M12-180	Flexible connecting cable (4-core), preferred length, pre-assembled with two 4-pin M12 plugs (D-coded); for connecting Industrial Ethernet nodes (e.g. SIMATIC ET 200pro and SCALANCE X208PRO) with IP65/67 degree of protection IP65/IP67	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 M12-180/IE FC RJ45 Plug-145
3,0 m	6XV1871-5TH30			
5,0 m	6XV1871-5TH50			
10 m	6XV1871-5TN10			
15 m	6XV1871-5TN15			
	IE Connecting Cable IE FC RJ45 Plug-180/IE FC RJ45 Plug-180	IE FC TP Trailing Cable GP 2 x 2 (PROFINET Type C) pre-assembled with two IE FC RJ45 Plug 180, IP20 degree of protection	1,0 m	6XV1871-5BH10
2,0 m			6XV1871-5BH20	
3,0 m			6XV1871-5BH30	
5,0 m			6XV1871-5BH50	
10 m			6XV1871-5BN10	
15 m			6XV1871-5BN15	
20 m			6XV1871-5BN20	
	M12 Power Connecting Cable M12-180/M12-180	Flexible connecting cable (4-core), preferred length, pre-assembled with a 4-pin M12 plug and a 4-pin M12 socket (A-coded); cable for connecting the 24 V power supply to ET 200eco PN with IP 65/67 degree of protection	0,3 m	6XV1801-5DE30
0,5 m			6XV1801-5DE50	
1,0 m			6XV1801-5DH10 ¹⁾	
1,5 m			6XV1801-5DH15 ¹⁾	
2,0 m			6XV1801-5DH20 ¹⁾	
3,0 m			6XV1801-5DH30 ¹⁾	
5,0 m			6XV1801-5DH50 ¹⁾	
10 m			6XV1801-5DN10 ¹⁾	
15 m			6XV1801-5DN15 ¹⁾	

1) also suitable for PROFIBUS