## **SIEMENS**

Data sheet 6XV1870-8AN10

## product type designation

product description

## IE Connecting Cable M12-180/M12-180

Flexible plug-in cable (4-wire), preferred length, prefabricated with two 4-pole M12 connectors (D-coded, 180° cable outlet)

Industrial Ethernet connecting Cable M12-180/M12-180, pre-assembled IE FC Trailing cable GP, with 2 M12 plugs (D-coded) length 10.0 m.



suitability for use	For connecting Industrial Ethernet stations (e.g. SIMATIC ET200 and SCALANCE XP-200) in IP 65/67 degree of protection
cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN
wire length	10 m
electrical data	
number of electrical connections	2
attenuation factor per length	
• at 10 MHz / maximum	0.063 dB/m
• at 100 MHz / maximum	0.213 dB/m
impedance	
● at 1 MHz 100 MHz	100 Ω
relative symmetrical tolerance	
• of the characteristic impedance at 1 MHz 100 MHz	5 %
near-end crosstalk per length	
● at 1 MHz 100 MHz	0.5 dB/m
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
RMS value	80 V
NVP value in percent	66 %
mechanical data	
number of electrical cores	4
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
core diameter	
<ul> <li>of AWG22 insulated conductor</li> </ul>	0.75 mm
outer diameter	
<ul> <li>of inner conductor</li> </ul>	0.75 mm
<ul> <li>of the wire insulation</li> </ul>	1.5 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	3.9 mm
of cable sheath	6.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC
of cable sheath	PVC
color	
<ul> <li>of the insulation of data wires</li> </ul>	white/yellow/blue/orange

bending radius  * with multiple bends / minimum permisable  * with continuous bending  number of bending cycles  \$00000000000000000000000000000000000	of cable sheath	green
with simple bend / minimum permisable   3.5 mm   40 mm   100 mm		
with manipule bends / minimum permissible     whith continuous bending number of bending cycles     300000000 Drag phain suitable for 2 million bending cycles at a bending radius of 100 mn     sepect of 4 min and an acceleration of a min* tensile load / maximum     150 N     86 kg/km      print	-	32.5 mm
. with continuous bending		
number of bending cycles  3,000,000, Drag point autiable for 3 million bending cycles at a bending radius of 100 mm, a peed of 4 m/s and an acceleration of 4 m/s?  bending the length  Weight per length  By For Plug in terricotx  Sets and	·	12.000
Intensite toad / maximum  Weight per length  Upe of bulg interfacek  Upe of bulg interfacek  Segretary for MT2 round connector / maximum  On 8 Nm  Commoder coding  of the MT2 circular connector  of the MT2 circular connector  of the MT2 circular connector  of uning operature  of uning operature  of uning operature  of uning operature  of uning granged  of the MT2 circular connector  of uning operature		
Seging per length   Sek galam   Section   Se		100 mm, a speed of 4 m/s and an acceleration of 4 m/s <sup>2</sup>
Speed of plug interfacck		
Special plug interlock   Serewed		68 kg/km
design of plug-in connection  white-incording forque / for M12 round connector / maximum  of the M12 circular connector  of uning parabora  of uning storage  of uning	plug	
tightening torque / for M12 round connector / maximum connector coding of the M12 circular connector  of uning storage of u	type of plug interlock	screwed
connector coding  of the M12 circular connector  of uning parature	design of plug-in connection	M12-180
of the M12 circular connector     ambient temperature     outring parature     outring storage	tightening torque / for M12 round connector / maximum	0.6 N·m
ambient temperature  • during operation • during storage • during storage • during straneport • during storage • during straneport • during installation • fincte • fire behavior • finate • to mineral oil • to mineral oil • to mineral oil • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • to mineral oil • to grease • Conditional resistance • resistant • resist	connector coding	M12
ambient temperature  • during operation  • during storage  • during installation  • note  • note  • note  • note  • note  • notice  • note  • note  • note  • temperature  • our minimate sistance  • to mineral oil  • to grease  • during asstance / to UV radiation  • note  • to mineral oil  • to grease  radiological resistance / to UV radiation  protection class IP  • halogen-free  • halogen-free  • halogen-free  • halogen-free  • halogen-free  • halogen-free  • silicon-free  • halogen-free	of the M12 circular connector	D-coded
oduring operation     outring storage     outring intransport     outring intransport     outring installation     one     one     one Electrical properties measured at 20 °C, tests according to DIN VDE 0472  fire behavior     one electrical properties measured at 20 °C, tests according to DIN VDE 0472  fire behavior     one internation     one of electrical properties measured at 20 °C, tests according to DIN VDE 0472  fire behavior     one initiated in the properties of the properties o	ambient conditions	
eduring storage eduring transport eduring transp	ambient temperature	
oduring transport     oturing transport     onter     onter     onter     onter     onter     onter     onterior	<ul> <li>during operation</li> </ul>	-25 +75 °C
- during installation - incide	during storage	-25 +75 °C
Fire behavior fire behavior fire behavior fire behavior  If ame resistant according to UL 1885 (CSA FT 4)  chemical resistance  • to mineral oil • to grease Conditional resistance  • to mineral oil • to grease Conditional resistance  rotection class IP product facture • halogen-free • silicon-free • silic	during transport	-25 +75 °C
fire behavior chemical resistance • to mineral ol • to grease radiological resistance / to UV radiation protection class IP product features, product functions, product components / general product features, product functions, p	during installation	-10 +60 °C
chemical resistance	• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
• to mineral oil • to grease Conditional resistance fadlological resistance / to UV radiation protection class IP P65, IP67  Product features, product functions, product components / general  product feature • halogen-free • silicon-free • silicon-free • silicon-free • silicon-free • sundards, specifications, approvals  ULFET, listing / 300 V Rating Ves; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / Oil, RES  ULFET, tsyle / 600 V Rating Ves; cRUus AWM 21694 AWM I A/B 60°C 600V FT2  certificate of sultability UL 228 • CE marking • RoHS conformity • Yes • CE marking • RoHS conformity • Yes • Caffe  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • No • Ploski Rejestr Statkow (PRS) • RoHS conding to IEC 81346-2 • according to IEC 81346-2 to WG • to website: Selection guide for cables and connectors • to website: Selection guide for cables and connectors • to web page: SiePortal • to website: Industry Online Support	fire behavior	flame resistant according to UL 1685 (CSA FT 4)
radiological resistance / to UV radiation resistant resistant resistant protection class IP IP65, IP67  product features, product functions, product components / general product feature halogen-free	chemical resistance	
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radiological resistance / to UV radiation protection class IP product feature  • halogen-free	• to grease	Conditional resistance
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product feature	<u>·</u>	
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that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

## Approvals / Certificates

**General Product Approval** 





Declaration of Conformity



Manufacturer Declaration



Environment Industrial Communication

Confirmation PROFINET

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