## **SIEMENS**

6XV1870-8AH50 **Data sheet** 

## product type designation

product description

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

Flexible plug-in cable (4-wire), preferred length, prefabricated with two 4pole 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 connectors (D-coded) length 5.0 m.



suitability for use

cable designation wire length

For connecting Industrial Ethernet stations (e.g. SIMATIC ET200 and SCALANCE XP-200) in IP 65/67 degree of protection

2YY (ST) CY 2x2x0,75/1,5-100 LI GN

electrical data	
number of electrical connections	2
attenuation factor per length	
<ul><li>at 10 MHz / maximum</li></ul>	0.063 dB/m
<ul><li>at 100 MHz / maximum</li></ul>	0.213 dB/m
impedance	
● at 1 MHz 100 MHz	100 Ω
relative symmetrical tolerance	
<ul> <li>of the characteristic impedance at 1 MHz 100 MHz</li> </ul>	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	
<ul> <li>RMS value</li> </ul>	80 V
NVP value in percent	66 %

## mechanical data

number of electrical cores

design of the shield

core diameter

of AWG22 insulated conductor

outer diameter

- of inner conductor
- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

symmetrical tolerance of the outer diameter / of cable sheath

material

- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

color

Overlapped aluminum-clad foil, sheathed in a braided screen of tinplated copper wires

0.75 mm

0.75 mm

1.5 mm

3.9 mm

6.5 mm

0.2 mm

polyethylene (PE)

PVC **PVC** 

• of the insulation of data wires white/yellow/blue/orange of cable sheath green bending radius • with single bend / minimum permissible 32.5 mm • with multiple bends / minimum permissible 49 mm • with continuous bending 100 mm 3000000; Drag chain suitable for 3 million bending cycles at a bending number of bending cycles radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s<sup>2</sup> tensile load / maximum weight per length 68 ka/km ambient conditions ambient temperature during operation -25 ... +75 °C during storage -25 ... +75 °C -25 ... +75 °C during transport -10 ... +60 °C · during installation Electrical properties measured at 20 °C, tests according to DIN VDE note fire behavior flame resistant according to UL 1685 (CSA FT 4) chemical resistance • to mineral oil conditional resistance • to grease Conditional resistance radiological resistance / to UV radiation resistant protection class IP IP65, IP67 product features, product functions, product components general product feature • halogen-free No • silicon-free Yes standards, specifications, approvals UL/ETL listing / 300 V Rating Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 600 V Rating Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 certificate of suitability EAC approval Yes CE marking Yes RoHS conformity Yes standard for structured cabling Cat5e Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) No • French marine classification society (BV) No • Det Norske Veritas (DNV) Nο • Germanische Lloyd (GL) No Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (NK) No • Polski Rejestr Statkow (PRS) No reference code WG • according to IEC 81346-2 • according to IEC 81346-2:2019 **WGB** further information / internet-Links Internet-Link • to web page: selection aid TIA Selection Tool http://www.siemens.com/tia-selection-tool • to website: Industrial communication http://www.siemens.com/simatic-net • to website: Industry Mall https://mall.industry.siemens.com • to website: Information and Download Center http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP • to website: Selection guide for cables and connectors • to website: Image database http://automation.siemens.com/bilddb • to website: CAx-Download-Manager http://www.siemens.com/cax https://support.industry.siemens.com • to website: Industry Online Support 12/31/2021

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