

Siemens 6XV1871-5TH20 Manual

Brand	Siemens
Product Series	Siemens
Product Type	designation IE Connecting Cable M12-180/IE FC RJ45-145

Description

6XV1871-5TH20

product type designation IE Connecting Cable M12-180/IE FC RJ45-145

product description Flexible plug-in cable (4-core), preferred length, preassembled with one 4-pole M12 connector (D-coded) and one IE FC RJ45 plug 145

IE connecting cable M12-180/IE FC RJ45 Plug-145; IE FC Trailing cable GP pre_x0002_assembled with M12 connector (D-coded) and IE FC RJ45 plug; Length 2.0 m

suitability for use For connecting Industrial Ethernet stations (e.g. SIMATIC ET200pro, SCALANCE X208PRO and SIMOTION)

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

wire length 2 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 m Ω /m

loop resistance per length / maximum 120 m Ω /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

- of AWG22 insulated conductor 0.75 mm

outer diameter

- of inner conductor 0.75 mm
- of the wire insulation 1.5 mm
- of the inner sheath of the cable 3.9 mm
- of cable sheath 6.5 mm

symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm

material

- of the wire insulation polyethylene (PE)
- of the inner sheath of the cable PVC
- of cable sheath PVC

color

- 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

number of bending cycles 3000000; Drag chain suitable for 3 million bending cycles at a bending radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s²

tensile load / maximum 150 N

weight per length 68 kg/km

ambient conditions

ambient temperature

- during operation -25 ... +75 °C
- during storage -25 ... +75 °C
- during transport -25 ... +75 °C
- during installation -10 ... +60 °C

fire behavior flame resistant according to UL 1685 (CSA FT 4)

chemical resistance

- to mineral oil conditional resistance
- to grease Conditional resistance
- to water conditional resistance

radiological resistance / to UV radiation resistant

product features, product functions, product components / general

product feature

- halogen-free No
- PoE capability Yes
- PoE+ capability Yes
- 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) No
- Germanische Lloyd (GL) No
- Lloyds Register of Shipping (LRS) No
- Nippon Kaiji Kyokai (NK) No
- Polski Rejestr Statkow (PRS) No

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