

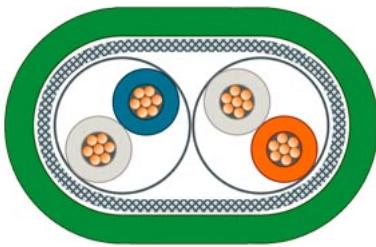
Data sheet

6XV1850-2GH20

product description

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100MB)

Industrial Ethernet TP Cord RJ45/RJ45, TP cord pre-assembled with 2 RJ45 plug, length 2 m.



suitability for use

cable designation

wire length

Easy connection of terminal devices to the IE FC cabling system

LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN

2 m

electrical data

number of electrical connections

2

attenuation factor per length

- at 10 MHz / maximum 0.09 dB/m
- at 100 MHz / maximum 0.285 dB/m
- at 300 MHz / maximum 0.495 dB/m
- at 600 MHz / maximum 0.75 dB/m

impedance

- at 1 MHz ... 100 MHz 100 Ω
- at 10 MHz ... 600 MHz 100 Ω

relative symmetrical tolerance

- of the characteristic impedance at 1 MHz ... 100 MHz 15 %
- of the characteristic impedance at 10 MHz ... 600 MHz 6 %

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

300 mΩ/m

insulation resistance coefficient

150 GΩ·m

operating voltage

- RMS value 80 V

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 AWG26 insulated conductor 0.48 mm

outer diameter

- of inner conductor 0.48 mm
- of the wire insulation 0.98 mm

width / of cable sheath

5.8 mm

symmetrical tolerance of width / of cable sheath

0.2 mm

thickness / of cable sheath

3.7 mm

symmetrical tolerance of thickness / of cable sheath

0.2 mm

material

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

color

• of the insulation of data wires	white/blue, white/orange
• of cable sheath	green
bending radius	
• with single bend / minimum permissible	24 mm
• with multiple bends / minimum permissible	42 mm
weight per length	32 kg/km

ambient conditions

ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-40 ... +70 °C
fire behavior	flame resistant according to IEC 60332-2-1
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
protection class IP	IP20

product features, product functions, product components / general

product feature	
• halogen-free	No
• silicon-free	Yes

standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability	
• EAC approval	Yes
• UL approval	Yes
standard for structured cabling	Cat5
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 Statków (PRS)	No
reference code	
• according to IEC 81346-2	WG
• 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
• to website: Selection guide for cables and connectors	https://sie.ag/2QdIxcP
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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