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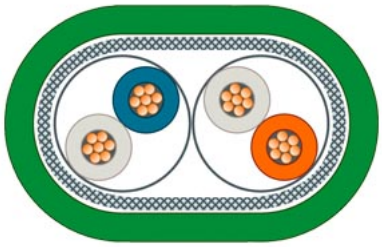
Data sheet 6XV1850-2GH20

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	Easy connection of terminal devices to the IE FC cabling system
cable designation	LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN
wire length	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)

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● 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 Statkow (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/2QdlxcP
● 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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