SIEMENS

6XV1881-5AH50 **Data sheet**

product description

Robust, flexible connection cable (4-core), preferred length, preassembled with two 4-pole M12 connectors (D-coded)

IE Robust Connecting Cable M12-180/M12-180, IP69, pre-assembled IE FC Robust Food cable 2x2, with 2 M12 plugs (D-coded) length 5.0 m.



suitabili	ty for	use
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For connecting Industrial Ethernet stations with degree of protection IP65/67/69. Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverages and tobacco industries (IP69

	resistant). Line is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).
cable designation	2YY(ST)CY6Y 2X2X0.75/1.55 LI VZN
wire length	5 m
lectrical data	
number of electrical connections	2
attenuation factor per length	

number of electrical confidential
attenuation factor per length

- at 10 MHz / maximum
- at 100 MHz / maximum

impedance

• at 1 MHz ... 100 MHz relative symmetrical tolerance

• of the characteristic impedance at 1 MHz ... 100 MHz

near-end crosstalk per length

- at 1 MHz ... 100 MHz transfer impedance per length / at 10 MHz
- loop resistance per length / maximum operating voltage
- RMS value

number of electrical cores

NVP value in percent		
echanical data		

design of the s	hield
type of electrica	al connection / FastConnect
core diameter	

- of AWG22 insulated conductor
- outer diameter
 - of inner conductor

of cable sheath

- of the wire insulation
- of the inner sheath of the cable
- symmetrical tolerance of the outer diameter / of cable sheath
- material
 - of the wire insulation
 - of the inner sheath of the cable

0.095 dB/m

0.32 dB/m

100 Ω

5 %

0.353 dB/m

 $80~\text{m}\Omega/\text{m}$

120 mΩ/m

80 V

69 %

00 /0
4
Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Yes
0.75 mm
0.75 mm 1.56 mm 4 mm 6.5 mm
0.2 mm

PVC

polyethylene (PE)

of cable sheath	PVC/FEP; FEP transparent
color	1 VOII EL, I EL HARSPAICHE
of the insulation of data wires	white/yellow/blue/orange
of cable sheath	green
bending radius	green
with single bend / minimum permissible	26 mm
with multiple bends / minimum permissible	52 mm
with continuous bending	100 mm
number of bending cycles	1000000; Acceleration 4 m/s²
number of torsion cycles / with torsion by ± 180° on 1 m cable	1000000, Acceleration 4 m/s
length	100000
tensile load / maximum	150 N
weight per length	72 kg/km
plug	
type of plug interlock	screwed
connector coding	
of the M12 circular connector	D-coded
ambient conditions	
ambient temperature	
during operation	-40 +80 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
during installation	-40 +80 °C
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
fire behavior	flame resistant according to IEC 60332-1-2
chemical resistance	
to mineral oil	oil resistant according to IEC 60811-404 (7x24h/90°C)
• to grease	Conditional resistance
• to water	resistant
radiological resistance / to UV radiation	resistant
protection class IP	IP65/67/69
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
UL/ETL style / 600 V Rating	Yes
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
reference code	
according to IEC 81346-2	WG
 according to IEC 81346-2:2019 	WGB
further information / internet links	
internet link	
	http://www.siemens.com/tia-selection-tool
 to web page: selection aid TIA Selection Tool to website: Industrial communication 	http://www.siemens.com/simatic-net
to website: Industrial communication to website: Industry Mall	https://mall.industry.siemens.com
to website: Industry Mail to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Information and Download Center to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
• to website. Selection guide for cables and connectors	Intpolifolic agriz galization

• to website: Image database

to website: CAx-Download-Managerto website: Industry Online Support

http://automation.siemens.com/bilddb http://www.siemens.com/cax

https://support.industry.siemens.com

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