SIEMENS

Data sheet 6XV1881-5AH10

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 GP 2x2, with 2 M12 plugs (D-coded) length 1 m.



suitability for use	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

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	1 m

electrical data	
number of electrical connections	2
attenuation factor per length	
• at 10 MHz / maximum	0.095 dB/m
• at 100 MHz / maximum	0.32 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	0.353 dB/m
transfer insured and a second south (at 40 MHz	20 0/

near-end crosstalk per length	
• at 1 MHz 100 MHz	0.353 dB/m
transfer impedance per length / at 10 MHz	80 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
RMS value	80 V
NVP value in percent	69 %

NVP value in percent	69 %
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
type of electrical connection / FastConnect	Yes
core diameter	
 of AWG22 insulated conductor 	0.75 mm
outer diameter	
 of inner conductor 	0.75 mm
 of the wire insulation 	1.56 mm
 of the inner sheath of the cable 	4 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/FEP; FEP transparent
color	
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 single bendy minimum permissible with multiple bends / minimum permissible	52 mm
with multiple bends / minimum permissible with continuous bending	100 mm
number of bending cycles	1000000; Acceleration 4 m/s ²
number of bending cycles 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
design of plug-in connection	M12-180
connector coding	M12
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 / gen	
product feature	
halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254 CMG FT4 75°C
UL/ETL style / 600 V Rating	Yes; AWM 22162 AWM I A/B 80°C 600V FT2
certificate of suitability	UL 2238
EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
- Norto comorning	
standard for structured cabling	Cat5e
standard for structured cabling Marine classification association	Cat5e
Marine classification association	
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS)	No
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security information

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last modified:

8/8/2024