## **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.



suita	hility	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 hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).

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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	
<ul><li>at 10 MHz / maximum</li></ul>	0.095 dB/m
• at 100 MHz / maximum	0.32 dB/m
impedance	
at 1 MHz 100 MHz	100 Ω
relative symmetrical tolerance	
<ul> <li>of the characteristic impedance at 1 MHz 100 MHz</li> </ul>	5 %
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	63 %
mechanical data	
number of electrical cores	4

NVP value in percent	63 %
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	
<ul> <li>of inner conductor</li> </ul>	0.75 mm
<ul> <li>of the wire insulation</li> </ul>	1.56 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	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)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC
of cable sheath	PVC/FEP; FEP transparent
color	
<ul> <li>of the insulation of data wires</li> </ul>	white/yellow/blue/orange
of cable sheath	green
bending radius	
<ul><li>with single bend / minimum permissible</li></ul>	26 mm
<ul><li>with multiple bends / minimum permissible</li></ul>	52 mm
with continuous bending	100 mm
number of bending cycles	1000000; Acceleration 4 m/s <sup>2</sup>
number of torsion cycles / with torsion by $\pm$ 180 $^{\circ}$ on 1 m cable length	1000000
tensile load / maximum	150 N
weight per length	72 kg/km
ambient conditions	
ambient temperature	
during operation	-40 +80 °C
during operation     during storage	-40 +80 °C
	-40 +80 °C
during installation	-40 +80 °C
during installation     pote	
• 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
and the start ID	IP65/67/69
protection class IP	11 00/01/00
protection class IP product features, product functions, product components	
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product features, product functions, product components	
product features, product functions, product components product feature	s / general
product features, product functions, product components product feature • halogen-free • silicon-free	No
product features, product functions, product components product feature • halogen-free • silicon-free standards, specifications, approvals	No Yes
product features, product functions, product components product feature	No Yes  UL: E326894 Wiring Harness
product features, product functions, product components product feature     • halogen-free     • silicon-free  standards, specifications, approvals  certificate of suitability     • EAC approval	No Yes
product features, product functions, product components product feature     • halogen-free     • silicon-free  standards, specifications, approvals  certificate of suitability     • EAC approval     • CE marking	No Yes  UL: E326894 Wiring Harness Yes
product features, product functions, product components product feature     • halogen-free     • silicon-free standards, specifications, approvals certificate of suitability     • EAC approval     • CE marking     • RoHS conformity	No Yes  UL: E326894 Wiring Harness Yes Yes
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product features, product functions, product components product feature     • halogen-free     • silicon-free  standards, specifications, approvals  certificate of suitability     • EAC approval     • CE marking     • RoHS conformity  standard for structured cabling  Marine classification association     • American Bureau of Shipping Europe Ltd. (ABS)     • French marine classification society (BV)	No Yes  UL: E326894 Wiring Harness Yes Yes Yes Cat5e  No No
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