SIEMENS

Data sheet 6XV1881-5AH30

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 3.0 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

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

I	2
cable designation	2YY(ST)CY6Y 2X2X0.75/1.55 LI VZN

cable designation	2 Y Y (ST) C Y 6 Y 2 X 2 X U . 7 5 / 1.55 LT V Z N
wire length	3 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 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 %
mechanical data	

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
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	165
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
·	UL 2238
certificate of suitability • EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
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·	
standard for structured cabling	Cat5e
standard for structured cabling Marine classification association	Cat5e
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security information

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Environment







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