SIEMENS

Data sheet

6XV1830-3DE50

product type designation

product description

PROFIBUS M12-Cable

Flexible plug-in cable (2-core), preferred length, preassembled with two 5-pole M12 male/female connectors (B-coded)

PROFIBUS M12 plug-in cable (ET 200) Pre-assembled PB FC Trailing Cable with 2 M12 connectors, B-coded, 5-pole; 0.5 m.



suitability for use	Cable for connecting PROFIBUS stations (e.g. SIMATIC ET 200) to IP 65 degree of protection
cable designation	02YY (ST) C11Y 1x2x0,65/2,56-150 LI KF 40 FR petrol
wire length	0.5 m
electrical data	
number of electrical connections	2
attenuation factor per length	
• at 9.6 kHz / maximum	0.003 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.025 dB/m
• at 16 MHz / maximum	0.049 dB/m
impedance	
 rated value 	150 Ω
• at 9.6 kHz	270 Ω
● at 38.4 kHz	185 Ω
• at 3 MHz 20 MHz	150 Ω
relative symmetrical tolerance	
 of the characteristic impedance at 9.6 kHz 	10 %
 of the characteristic impedance at 38.4 kHz 	10 %
• of the characteristic impedance at 3 MHz 20 MHz	10 %
loop resistance per length / maximum	133 mΩ/m
shield resistance per length / maximum	14 Ω/km
capacity per length / at 1 kHz	28 pF/m
operating voltage	
RMS value	80 V
mechanical data	
number of electrical cores	2
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
type of electrical connection / FastConnect	Yes
outer diameter	
 of inner conductor 	0.67 mm
 of the wire insulation 	2.56 mm
 of the inner sheath of the cable 	5.4 mm
• of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm

material	
 of the wire insulation 	polyethylene (PE)
 of the inner sheath of the cable 	PVC
of cable sheath	PUR (TPE-U)
color	
 of the insulation of data wires 	red/green
of cable sheath	petrol
bending radius	
 with single bend / minimum permissible 	40 mm
with continuous bending	120 mm
number of bending cycles	3000000; Drag chain suitable for 3 million bending cycles at a bending radius of 120 mm (15x D) and an acceleration of 4 m/s ²
tensile load / maximum	100 N
weight per length	77 kg/km
ambient conditions	
ambient temperature	
during operation	-40 +60 °C
during storage	-40 +60 °C
during storage during transport	-40 +60 °C
during installation	-40 +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN 47250
	part 4 respectively DIN VDE 0472
ambient condition / for operation	Limited segment length (see manual for PROFIBUS networks)
fire behavior	flame resistant according to IEC 60332-1-2
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (7x24h/90°C)
• to grease	resistant
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP65, IP67
product features, product functions, product components	s / general
product features, product functions, product components product feature	s / general
	s / general No
product feature	
product feature	No
product feature halogen-free silicon-free 	No
product feature • halogen-free • silicon-free standards, specifications, approvals	No Yes
product feature • halogen-free • silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating	No Yes Yes; CMX
product feature • halogen-free • silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating	No Yes Yes; CMX
product feature • halogen-free • silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability	No Yes; CMX No
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- to website: CAx-Download-Manager
- to website: Industry Online Support

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