

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; 2.0 m.



product brand name

Technical Product Detail Page

suitability for use

cable designation

wire length

SIMATIC NET

<https://i.siemens.com/1P6XV1830-3DH20>

Cable for connecting PROFIBUS stations (e.g. SIMATIC ET 200) to IP 65 degree of protection

02YY (ST) C11Y 1x2x0,65/2,56-150 LI KF 40 FR petrol

2 m

electrical data

number of electrical connections

attenuation factor per length

- at 9.6 kHz / maximum
- at 38.4 kHz / maximum
- at 4 MHz / maximum
- at 16 MHz / maximum

2

0.003 dB/m
0.004 dB/m
0.025 dB/m
0.049 dB/m

impedance

- rated value
- at 9.6 kHz
- at 38.4 kHz
- at 3 MHz ... 20 MHz

150 Ω
270 Ω
185 Ω
150 Ω

relative symmetrical tolerance

- of the characteristic impedance at 9.6 kHz
- of the characteristic impedance at 38.4 kHz
- of the characteristic impedance at 3 MHz ... 20 MHz

10 %
10 %
10 %

loop resistance per length / maximum

shield resistance per length / maximum

capacity per length / at 1 kHz

operating voltage

- RMS value

133 mΩ/m
14 Ω/km
28 pF/m
80 V

mechanical data

number of electrical cores

design of the shield

type of electrical connection / FastConnect

outer diameter

- of inner conductor
- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

2

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

Yes

0.67 mm
2.56 mm
5.4 mm
8 mm

symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material • of the wire insulation • of the inner sheath of the cable • of cable sheath	polyethylene (PE) PVC PUR (TPE-U)
color • of the insulation of data wires • of cable sheath	red/green petrol
bending radius • with single bend / minimum permissible • with continuous bending	40 mm 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 • during storage • during transport • during installation • note	-40 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C electrical properties measured at 20 °C
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 • to grease • to water	oil resistant according to IEC 60811-2-1 (7x24h/90°C) resistant conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP65, IP67
product features, product functions, product components / general	
product feature • halogen-free • silicon-free	No Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; CMX
UL/ETL style / 600 V Rating	No
certificate of suitability • EAC approval • CE marking • RoHS conformity	UL2238 E300110 Yes Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS)	No No No No No No No
further information / internet links	
internet link • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions

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Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)



[Manufacturer Declara-
tion](#)

[China RoHS](#)

General Product Ap-
proval

other



[Miscellaneous](#)

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