## **SIEMENS**

Data sheet 6XV1830-3DN10

## 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; 10 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	10 m
electrical data	
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	
<ul> <li>of the characteristic impedance at 9.6 kHz</li> </ul>	10 %
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	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
<ul> <li>of the inner sheath of the cable</li> </ul>	5.4 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	

of the interest sheath of the cable of color of the insulation of data wires of cable sheath of cable sheath  with single bend / minimum permissible with continuous bending  number of bending sycles  tensile load / maximum  weight per length 77 kg/km  maillein Conditions  ambient conditions  ambient semperature of uring aperation of uring stronge of uring transport of uring stronge of uring transport of uring stronge of uring transport of uring stronge of uring stronge of uring transport of uring stronge of uring stronge of uring transport of uring stronge of uring transport of uring stronge of uring strong	of the wire insulation	polyethylene (PE)
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• to mineral oil • to grease • to water radiological resistance / to UV radiation protection class IP product features, product functions, product components / general product feature • halogen-free • halogen-free • silicon-free •	fire behavior	flame resistant according to IEC 60332-1-2
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Standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability	<ul><li>halogen-free</li></ul>	No
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<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>No</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> <li>Further information / internet-Links</li> <li>Internet-Link</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> <li>No</li> <li>Nttp://www.siemens.com/tia-selection-tool</li> <li>http://www.siemens.com/simatic-net</li> <li>https://www.siemens.com</li> <li>http://www.siemens.com</li> <li>http://www.siemens.com/industry/infocenter</li> <li>https://sie.ag/2QdlxcP</li> </ul>	<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> <li>further information / internet-Links</li> <li>Internet-Link</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> <li>No</li> <li>http://www.siemens.com/tia-selection-tool</li> <li>http://www.siemens.com/simatic-net</li> <li>http://www.siemens.com/industry/infocenter</li> <li>https://sie.ag/2QdixcP</li> </ul>	<ul> <li>Germanische Lloyd (GL)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>No</li> <li>further information / internet-Links</li> <li>Internet-Link</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> <li>No</li> <li>http://www.siemens.com/tia-selection-tool</li> <li>http://www.siemens.com/simatic-net</li> <li>http://www.siemens.com/industry/infocenter</li> <li>https://sie.ag/2QdixcP</li> </ul>	<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
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Internet-Link  • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support  http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com https://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP		No
Internet-Link  • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support  http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com https://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP		
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