## **SIEMENS**

Data sheet 6XV1830-3DH50

## 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; 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	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	
<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	
<ul> <li>of inner conductor</li> </ul>	0.67 mm
<ul> <li>of the wire insulation</li> </ul>	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	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)

e of cable sheath  of cable sheath  of cable sheath  bending redice  • with angle bend / minimum permissible  • with angle bend / minimum permissible  • with angle bend / minimum permissible  • with continuous bending  number of hereing cycles  Socioon, thing chain suitable for 3 million heading cycles at a bending radius of 100 N  weight per length  77 kg/km  sendel bead / maximum  weight per length  78 kg/km  sendel bead / maximum  weight per length  79 kg/km  sendel bead / maximum  • outing genation  • outing granted  • outi	of the inner sheath of the cable	PVC
• of cable sheath • with continuous bending • with somitimum permissible • with somitimum • with continuous bending • mumber of bending cycles • 30000000. Drag chain suitable for 3 million bending cycles at a bending radius of 120 mm (fis. D) and an acceleration of 4 mes*  tensile bad / maximum • 100 N • Weight per fength • 77 kg/km • antiferite conditions • white continuous • outring operation • during grantable • during grantable • during installation • outring installation • note • during installation • note • or mineral condition for operation • finite behavior • note conditions • to water • hadgoin free • h	of cable sheath	PUR (TPE-U)
end cable sheath bending radius  * with single bend / minimum permissible * with continuous bending **	color	
bending radius  • with continuous bending • with continuous • withing the first of the continuous • withing penaltin • withing penaltin • withing transport • during praisitiona • withing transport • during installation • words • withing installation • words • withing installation • words • withing installation • words •	<ul> <li>of the insulation of data wires</li> </ul>	red/green
with angle bend / minimum permisable	of cable sheath	petrol
with continuous bending yoles	bending radius	
Lensel is aed / maximum  100 N  Lensel is aed / maximum  100 N  weight per length  77 kg/km  ambient conditions  ambient temperature  • during separation  • during storage  •	<ul> <li>with single bend / minimum permissible</li> </ul>	40 mm
120 mm (15x D) and an acceleration of 4 mms²	with continuous bending	120 mm
weight per length unblint conditions amblent temperature  • during operation • during storage • during installation • hote  Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 9472  amblent condition / for operation  Introde Selectrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 9472  amblent condition / for operation  Introde Segment freight (see manual for PROFIBUS networks)  fire behavior  International coording to IEC 60332-1-2  Chemical resistance • to mineral oi • to prese • to water  radiological resistance / to UV radiation  resistant  conditional resistance  • to water  • halogen-free • hal	number of bending cycles	
ambient temperature  • during operation • during storage • during pransport • during storage • during strasport • during strasp	tensile load / maximum	100 N
ambient temperature	weight per length	77 kg/km
- during proration - during stroage - during intrasport - during installation - do . + 60 ° C - during installation - note - ender ender the strong of the s	ambient conditions	
- during storage - during transport - during transp	ambient temperature	
- during transport - during installation - incle - incl - incle - incle - incl	<ul> <li>during operation</li> </ul>	-40 +60 °C
onice	<ul> <li>during storage</li> </ul>	-40 +60 °C
Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472  ambient condition / for operation fire behavior chemical resistance	during transport	-40 +60 °C
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fire behavior chemical resistance  to mineral oil  to grease to water radiological resistance / to UV radiation protection class IP product features, product functions, product components / general protection class IP product feature halogen-free silicon-free Silic	• note	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
chemical resistance  • 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-	ambient condition / for operation	Limited segment length (see manual for PROFIBUS networks)
to mineral oil     to grease     to water     to water     radiological resistance / to UV radiation     protection class IP     product features, product functions, product components / general     product feature	fire behavior	flame resistant according to IEC 60332-1-2
• to grease • to water conditional resistance 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 • silicon-free • silicon-free • sandards, specifications, approvals  ULETL listing / 300 V Rating  ULETL style / 600 V Rating  Ves; CMX  ULETL style / 600 V Rating  ULEZ38 E300110 • EAC approval • CE marking • Yes • CE marking • Yes • CE marking • RoHS conformity • RoHS conformity • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • De No Norse Vertias (DINY) • De Norse Vertias (DINY) • De De Norse Vertias (DINY) • De Norse Vertias (DINY) • No • Polski Rejestr Statkow (PRS) • No • Polski Rejestr Statkow (PRS) • No • Polski Rejestr Statkow (PRS) • No • reference code • according to IEC 81346-2 • according to IEC 81346-22 • according to IEC 81346-22019 • WGB  further Information / Internet links  internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to w	chemical resistance	
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product features product functions, product components / general product feature  • halogen-free	radiological resistance / to UV radiation	resistant
product feature	protection class IP	IP65, IP67
* halogen-free     * silicon-free     * silico	product features, product functions, product components / gene	eral
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	<ul><li>to website: CAx-Download-Manager</li></ul>	http://www.siemens.com/cax
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	last modified:	11/9/2023 🖸

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