SIEMENS

Data sheet 6XV1830-0MH10

Product type designation Product description

SIENOPYR FR ship cable

Bus cable (2-core), sold by the meter, unassembled PROFIBUS marine cable SIENOPYR, copper cable for laying on ships and OFFSHORE units, Sold by the meter Delivery unit max. 1000 m/ min. 20 m



Suitability for use	Cable for fixed installation on ships and offshore facilities in all
	enclosed spaces and on open decks. This cable cannot be used
	for permanent installation in water.
Cable designation	M-02Y (ST) CH X 1 x 2 x 0,35 100 V

Electrical data	
Damping ratio per length	
• at 9.6 kHz / maximum	0.003 dB/m
• at 38.4 kHz / maximum	0.005 dB/m
• at 4 MHz / maximum	0.022 dB/m
• at 16 MHz / maximum	0.045 dB/m
Impedance	
Rated value	150 Ω
● at 9.6 kHz	250 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	10 %
MHz	
Loop resistance per length / maximum	110 mΩ/m
Insulation resistance coefficient	16000 GΩ·m
Operating voltage	
• RMS value	100 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	No
Outer diameter	
of inner conductor	0.67 mm
 of the inner sheath of the cable 	8 mm
 of cable sheath 	9.8 mm
• of cable sheath / Note	Outer diameter > 8 mm: Bus connectors can only be connected
	after removing the outer cover
Symmetrical tolerance of the outer diameter / of	0.5 mm
cable sheath	
Material	
 of the wire insulation 	polyethylene (PE)
 of the inner sheath of the cable 	Halogen-free polymer (HM4)
 of cable sheath 	Halogen-free, cross-linked polymer
Color	
 of the insulation of data wires 	red/green
 of cable sheath 	Black
Bending radius	
 with single bend / minimum permissible 	98 mm
• with multiple bends / minimum permissible	196 mm
Tensile load / maximum	100 N
Weight per length	110 kg/km

110 kg/km
-35 +80 °C
-35 +80 °C
-35 +80 °C
-15 +80 °C
Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
At ambient temperatures below -15 °C, the cable must not be subjected to any movements other than the normal vibration levels encountered on board ship

Burning behavior	flame resistant according to IEC 60332-3-24, IEC 607542, IEC 61031, DIN VDE 0472 Part 805 Prüfart B
Chemical resistance	
• to mineral oil	resistant to diesel fuel according to DIN VDE 51601, ASTM oil No. 2 according to DIN 53521, oil, NATOCode 0178, BWTL 91500031/2 according to VG 95214 Part 4, hydraulic fluid, NATOCode H515, BWTL 91500020 according to VG 95214 Part 4, cold cleaning solvent, BW-TL 68500017 according to VG 95214 Part 4, deionized water according to VG 95214 Part 4, deionized water with 3.5% NaCl
• to grease	resistant
● to water	conditional resistance
Radiological resistance / to UV radiation	resistant

Product features, product functions, product components / general

Product feature

• halogen-free Yes

• silicon-free Yes

Standards, specifications, approvals	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	Yes
 Germanische Lloyd (GL) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	No
 Polski Rejestr Statkow (PRS) 	No

Further information / Internet-Links

Internet-Link

• to website: Selector SIMATIC NET

SELECTION TOOL

http://www.siemens.com/snst

• to website: Industrial communication http://www.siemens.com/simatic-net

• to website: Industry Mall https://mall.industry.siemens.com

• to website: Information and Download Center http://www.siemens.com/industry/infocenter

• to website: Image database http://automation.siemens.com/bilddb

• to website: CAx Download Manager http://www.siemens.com/cax

• to website: Industry Online Support

https://support.industry.siemens.com

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