SIEMENS

Data sheet	**6XV1830-0MH10**

product type designation	**SIENOPYR FR ship cable**
product description	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.

Technical Product Detail Page	https://i.siemens.com/1P6XV1830-0MH10
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
wire length	sold by the meter

electrical data

attenuation factor 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 MHz	10 %
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 cable sheath	0.5 mm
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

ambient conditions

ambient temperature	
● during operation	-35 ... +80 °C
● during storage	-35 ... +80 °C
● during transport	-35 ... +80 °C
● during installation	-15 ... +80 °C
ambient condition / for operation	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
fire 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
● French marine classification society (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: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected

to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

| CE EG-Konf. | Declaration of Conformity | UKCA | CCC | Manufacturer Declaration | China RoHS |

General Product Approval | Maritime application

| RCM | BUREAU VERITAS | DNV | GL | Lloyd's Register LRS | RMRS |

Environment

Environmental Confirmations

last modified: 12/20/2025 ↗