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

	water.	
cable designation	M-02Y (ST) CH X 1 x 2 x 0,35 100 V	
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	

• Kivio 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
• note	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
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
	and a
product features, product functions, product components / gen	erai
product features, product functions, product components / gen product feature	erai
· · · · · · · · · · · · · · · · · · ·	Yes
product feature	
product feature • halogen-free • silicon-free	Yes
product feature • halogen-free • silicon-free standards, specifications, approvals	Yes
product feature	Yes Yes
product feature • halogen-free • silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating	Yes Yes
product feature • halogen-free • silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating Marine classification association	Yes Yes No No
product feature	Yes Yes No No No
product feature	Yes Yes No No No No
product feature	Yes Yes No No No No Yes
product feature	Yes Yes No No No Vo No Yes Yes
product feature • halogen-free • silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating 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)	Yes Yes No No No Yes Yes Yes
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product feature	Yes Yes No No No Yes Yes Yes
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product feature	Yes Yes No No No No No Yes Yes Yes Yes Yes WG WGB http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com
product feature	Yes Yes No No No No Yes Yes Yes Yes WG No
product feature	Yes Yes No No No No No Yes Yes Yes Yes Yes WG WGB http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com
product feature	Yes Yes No No No No No Yes Yes Yes Yes Yes WG WGB http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter
product feature	Yes Yes No No No No No Yes Yes Yes Yes Yes No No No Http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP

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