# **SIEMENS**

6XV1830-0MH10 Data sheet

## Product type designation

### Product description

#### SIENOPYR FR ship cable

Bus cable (2-core), sold by the meter, unassembled SIMATIC NET, PROFIBUS SHIPBOARD CABLE SIENOPYR, COPPER CABLE, FOR WIRING ON SHIPBOARD AND OFFSHORE, SOLD BY THE METER MAX. CONSIGNMENT: 1000 M MIN. ORDER QUANTITY: 20 M



Suit	tabi	lity '	for	use

Cable for fixed installation on ships and offshore facilities in all

Cable designation		M-02Y (ST) CH X 1 x 2 x 0,35 100 V		
	Electrical data			
	Damping ratio per length			

cable for fixed metallicities of emperation of chemical frame
enclosed spaces and on open decks. This cable cannot be used
for permanent installation in water.
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	
<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	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			
<ul> <li>of the inner sheath of the cable</li> </ul>	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	PE.			
• of the inner sheath of the cable	Halogen-free polymer (HM4)			
• of cable sheath	Halogen-free, cross-linked polymer			
Color				
<ul> <li>of the insulation of data wires</li> </ul>	red / green			
• of cable sheath	Black			
Bending radius				
<ul><li>with single bend / minimum permissible</li></ul>	98 mm			
• with multiple bends / minimum permissible	196 mm			
Tensile load / maximum	100 N			
Weight per length	110 kg/km			
Permitted ambient conditions				
Ambient temperature				
<ul><li>during operation</li></ul>	-35 +80 °C			
during storage	-35 +80 °C			
during transport	-35 +80 °C			
during installation	-15 +80 °C			
• Note	electrical properties measured at 20 Cel, tests according to DIN 47250 part 4 respectively DIN VDE 0472			
Ambient condition / for operation	At ambient temperatures below -15 degrees Celsius, 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
 to water
 Conditional resistance
 resistant

Li	roduct	proper	ies, tur	nctions,	compo	nents /	general

Product property

• halogen-free Yes

• silicon-free Yes

### Standards, specifications, approvals

Marine classification association

American Bureau of Shipping Europe Ltd.
 No

(ABS)

Bureau Veritas (BV)
 No

Det Norske Veritas (DNV)

Yes

• Germanische Lloyd (GL) Yes

Lloyds Register of Shipping (LRS)

Yes

• Nippon Kaiji Kyokai (NK)

Polski Rejestr Statkow (PRS)

#### Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>

**SELECTION TOOL** 

• to website: Industrial communication <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>

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

• to website: Information and Download Center http://www.siemens.com/automation/net/catalog

• to website: Image database <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>

• to website: CAx Download Manager <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>

• to website: Industry Online Support <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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