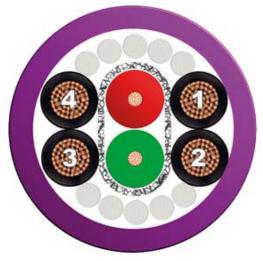
SIEMENS

Data sheet 6XV1830-7AH10

Product type designation

Product description



PROFIBUS ECOFAST Hybrid Cable

ECOFAST Hybrid cable (data and energy wires), product sold by meter, unassembled

SIMATIC NET,PROFIBUS ECOFAST HYBRID CABLE, TRAILING TYPE CABLE WITH 4XCU (1.5 SQMM) AND 2XCU (0.64 MM) SHIELDED, SOLD BY THE METER, MAX. CONSIGNMENT: 1000 M MIN. ORDER QUANTITY: 20 M

Suitability for use	Hybrid cable for connection of ECOFAST stations
Cable designation	02Y (ST)C 1 x 2 x 0.65/2.56 - 150 LI LIH-Z 11Y 4 x 1 x 1.5 VI
	FRNC

Electrical data	
Damping ratio per length	
• at 9.6 kHz / maximum	0.004 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	
 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	138 Ω/km
Shield resistance per length / maximum	15 Ω/km
Insulation resistance coefficient	20 GΩ·m
Capacity per length / at 1 kHz	30 pF/m

Operating voltage / RMS value	100 V
Conductor cross section / of the power wire	1.5 mm ²
Continuous current / of the power wires	12 A

Mechanical data	
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of
	tin-plated copper wires
Number of electrical cores	6
Type of electrical connection / FastConnect	No
Outer diameter	
of inner conductor	0.67 mm
• of the wire insulation	2.56 mm
• of cable sheath	11 mm
Symmetrical tolerance of the outer diameter / of	0.3 mm
cable sheath	
Material	
of the wire insulation	PE
• of cable sheath	PUR
Color	
 of the insulation of data wires 	red / green
 of the power wire insulation 	Black
• of cable sheath	Violet
Bending radius	
• with multiple bends / minimum permissible	82.5 mm
Number of bending cycles	5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 82.5 mm (7.5x D) and an acceleration of 2.5 m/s ²
Tensile load / maximum	300 N
Weight per length	150 kg/km

Permitted ambient conditions	
Ambient temperature	
during operation	-40 +60 °C
during storage	-40 +60 °C
 during transport 	-40 +60 °C
during installation	-40 +60 °C
• Note	Electrical properties measured at 20 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0472
Burning behavior	flame-retardant according to IEC 60332-1
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product property Yes • halogen-free Yes • silicon-free Standards, specifications, approvals Certificate of suitability Yes • RoHS conformity Further Information / Internet Links Internet-Link • to website: Selector SIMATIC NET http://www.siemens.com/snst **SELECTION TOOL** • to website: Industrial communication http://www.siemens.com/simatic-net https://mall.industry.siemens.com • to website: Industry Mall http://www.siemens.com/automation/net/catalog • to website: Information and Download Center http://automation.siemens.com/bilddb • to website: Image database

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