SIEMENS

Data sheet 6XV1860-3PH15

Product type designation Product description

PROFIBUS ECOFAST Hybrid Cable GP

ECOFAST Hybrid cable (data and energy wires), preferred length, assembled with ECOFAST connector and socket SIMATIC NET, PROFIBUS ECOFAST HYBRID CABLE GP, 2XCU 0.64 MM, 4XCU 1.5 SQMM, CABLE PREASSEMBLED WITH ECOFAST CONNECTOR AND SOCKET, TRAILING TYPE, LENGTH 1.5 M



Suitability for use	Hybrid cable for connection of ECOFAST stations, UL approval
Cable designation	02Y (ST)C 1x2x0.65/2.56 -150 LI LIY-Z Y 4x1x1.5 VI
Cable length	1.5 m

Electrical data	
Damping ratio per length	
• at 9.6 kHz / maximum	0.003 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	10 %
MHz	
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	600 V
Conductor cross section / of the power wire	1.5 mm²
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	PVC
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	110 mm
Number of bending cycles	1000000; For use in cable carriers, for 1 million bending cycles
	with a bending radius of 166 mm (15x D) and an acceleration of 4.0 m/s ²
Tensile load / maximum	300 N
Weight per length	154 kg/km

Permitted ambient conditions	
Ambient temperature	
 during operation 	-30 +80 °C
during storage	-30 +80 °C
during transport	-30 +80 °C
 during installation 	-30 +80 °C
Note	Electrical properties measured at 20 Cel, verification according to
	DIN 47250 part 4 respectively DIN VDE 0490
Burning behavior	flame-retardant according to IEC 60332-3-24 (Category C)
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP65

Product properties, functions, components / general Product property • halogen-free Yes Yes • silicon-free Standards, specifications, approvals Certificate of suitability • RoHS conformity Yes Internet-Link • to website: Selector SIMATIC NET http://www.siemens.com/snst **SELECTION TOOL** http://www.siemens.com/simatic-net • to website: Industrial communication 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 http://www.siemens.com/cax • to website: CAx Download Manager https://support.industry.siemens.com • to website: Industry Online Support

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