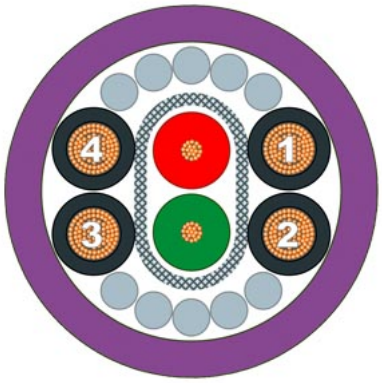
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Data sheet 6XV1830-7AH10

product type designation	**PROFIBUS ECOFAST Hybrid Cable**
product description	ECOFAST Hybrid cable (data and energy wires), product sold by meter, unassembled

PROFIBUS ECOFAST Hybrid Cable, Trailable cable with 4x Cu (1.5 mm2) and 2xCU (0.64 mm) shielded, sold by the meter, delivery unit max. 1000 m minimum 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	
attenuation factor 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
operating voltage / maximum	80 V
capacity per length / at 1 kHz	30 pF/m
operating voltage / RMS value	100 V
conductor cross section / of the power line	1.5 mm²
continuous current / of the power lines	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 cable sheath	0.3 mm
material	
● of the wire insulation	polyethylene (PE)

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• of cable sheath	PUR
color	
• of the insulation of data wires	red / green
• of the power line 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/s²
tensile load / maximum	300 N
weight per length	150 kg/km
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
fire behavior	flame-retardant according to IEC 60332-1
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	Conditional resistance
• to grease	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
certificate of suitability	
• EAC approval	Yes
• RoHS conformity	Yes

Approvals / Certificates

General Product Approval

Manufacturer Declaration

Declaration of Conformity

China RoHS

General Product Approval	Maritime application	other	Environment	
Fire safety / Physical security		Miscellaneous	Environmental Confirmations	Environmental Confirmations

Industrial Communication

Profibus

Further information

Internet-Link to website: Selection guide for cables and connectors
https://support.industry.siemens.com/cs/ww/en/view/109766358

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Internet-Link to website: SiePortal
https://sieportal.siemens.com/
Internet-Link to website: Master data hub
https://sieportal.siemens.com/en-de/onemd4c/datahub
Internet-Link to website: Image database
https://www.automation.siemens.com/bilddb

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