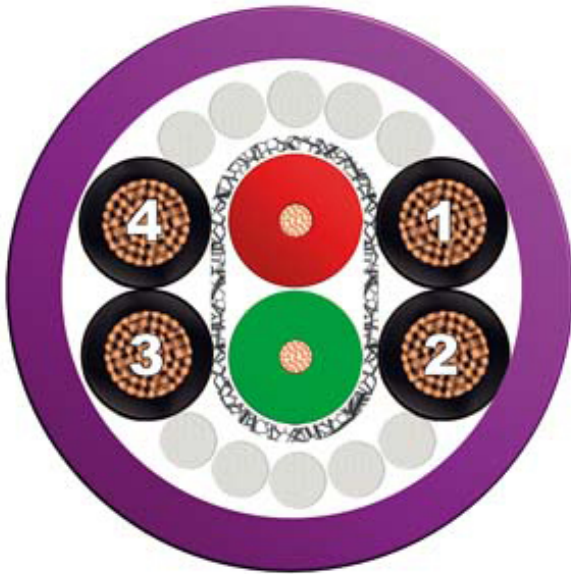


Product type designation

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	
<ul style="list-style-type: none"> at 9.6 kHz / maximum 	0.004 dB/m
<ul style="list-style-type: none"> at 38.4 kHz / maximum 	0.004 dB/m
<ul style="list-style-type: none"> at 4 MHz / maximum 	0.025 dB/m
<ul style="list-style-type: none"> at 16 MHz / maximum 	0.049 dB/m
Impedance	
<ul style="list-style-type: none"> Rated value 	150 Ω
<ul style="list-style-type: none"> at 9.6 kHz 	270 Ω
<ul style="list-style-type: none"> at 38.4 kHz 	185 Ω
<ul style="list-style-type: none"> at 3 MHz ... 20 MHz 	150 Ω
Relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 9.6 kHz 	10 %

<ul style="list-style-type: none"> • of the characteristic impedance at 38.4 kHz 	10 %
<ul style="list-style-type: none"> • 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 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 <ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of cable sheath 	0.67 mm 2.56 mm 11 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
Material <ul style="list-style-type: none"> • of the wire insulation • of cable sheath 	PE PUR
Color <ul style="list-style-type: none"> • of the insulation of data wires • of the power wire insulation • of cable sheath 	red / green Black Violet
Bending radius <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-40 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C
---	--

<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> to mineral oil to grease 	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product feature <ul style="list-style-type: none"> halogen-free silicon-free 	Yes Yes
--	------------

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Certificate of suitability <ul style="list-style-type: none"> RoHS conformity 	Yes

Further Information / Internet Links

Internet-Link <ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAx Download Manager to website: Industry Online Support 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
--	---

last modified: 08/28/2017