



SIMATIC NET,
PROFIBUS ECOFAST HYBRID CABLE GP,
TRAILING CABLE WITH 2 X CU 0.64 MM AND 4XCU 1.5
SQMM, NOT PREASSEMBLED,
PREFERRED LENGTH, 50 M

Acceptability for application

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

50 m

Electrical data

Damping ratio per length

• at 9.6 kHz / maximum	0.0030 dB/m
• at 38.4 kHz / maximum	0.0040 dB/m
• at 4 MHz / maximum	0.025 dB/m
• at 16 MHz / maximum	0.049 dB/m

Impedance

• Nominal value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• for frequency range 3 MHz ... 20 MHz	150 Ω

Relative symmetrical tolerance

• of the surge impedance at 9.6 kHz	10 %
• of the surge impedance at 38.4 kHz	10 %
• of the surge impedance at 3 MHz ... 20 MHz	10 %

Loop resistance per length / maximum

138 Ω /km

Shield resistance per length / maximum

15 Ω /km

Capacity per length / at 1 kHz

30 pF/m

Operating voltage / RMS value	600 V
Conductor cross section / of the power wires	1.5 mm ²
Continuous current / of the power wires	12 A
Mechanical data	
Design of shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Number of electrical wires	6
Design of the electrical connection / FastConnect	No
Outer diameter	
• of the wire insulation	2.56 mm
• of the cable sheath	11 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.3 mm
Material	
• of the wire insulation	PE
• of the cable sheath	PVC
Color	
• of the insulation of data wires	red / green
• of the power wire insulation	Black
• of the cable sheath	Violet
Bending radius	
• with multiple bends / minimum permissible	110 mm
Number of bending cycles	1000000
• Note	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
Traction stress / maximum	300 N
Weight per length	154 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-30 ... +80 °C
• during storage	-30 ... +80 °C
• during transport	-30 ... +80 °C
• during installation	-30 ... +80 °C
Protection class IP	IP65
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
Radiological resistance / to UV radiation	resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	Yes

• silicon-free	Yes
Standards, specifications, approvals	
UL/ETL listing / with 300 V rating	No
UL/ETL style / with 600 V rating	Yes: CM / CL3 / SunRes / OilRes
Verification of suitability	
• RoHS conformity	Yes
letzte Änderung:	Aug 4, 2014