



SIMATIC NET,
IE HYBRID CABLE 2X2 + 4X0.34,
FLEXIBLE CABLE, 4XCU CAT5,
4XCU(0.75MM) AND 4XCU(0.34SQMM) SHIELDED,
WITH IE FC MODULAR OUTLET FOR POWER INSERT
AND IP67 HYBRID CONNECTOR,
SOLD BY THE METER,
MAX. CONSIGNMENT: 1000 M,
MIN. ORDER LENGTH: 20 M

Acceptability for application

Ethernet hybrid cable for transfer of data and power

Cable designation

2YH (ST) C 2x2x0.75/1.5LI LIH H 2x2x0.34/1.6GN FRNC

Electrical data

Damping ratio per length

- at 10 MHz / maximum

0.075 dB/m

- at 100 MHz / maximum

0.26 dB/m

Impedance / for frequency range 1 MHz ... 100 MHz

100 Ω

Relative symmetrical tolerance / of the surge impedance at 1 MHz ... 100 MHz

15 %

Near-end crosstalk per length / at 1 MHz ... 100 MHz

0.353 dB/m

Transfer impedance / at 10 MHz

10 m Ω /m

Loop resistance per length / maximum

120 Ω /km

Insulation resistance coefficient

500 G Ω ·m

Operating voltage / RMS value

100 V

Conductor cross section / of the power wires

0.34 mm²

Continuous current / of the power wires

5 A

Mechanical data

Design of shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

Number of electrical wires

8

Design of the electrical connection / FastConnect

No

Core diameter / of the AWG22 core	0.76 mm
Outer diameter	
• of the inner conductor	0.76 mm
• of the wire insulation	1.5 mm
• of the inner sheath of the cable	3.9 mm
• of the cable sheath	8.5 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.4 mm
Material	
• of the wire insulation	PE
• of the inner sheath of the cable	FRNC
• of the cable sheath	FRNC
Color	
• of the insulation of data wires	white / yellow / blue / orange
• of the power wire insulation	Black/brown
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	42.5 mm
• with multiple bends / minimum permissible	85 mm
Traction stress / maximum	260 N
Weight per length	105 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-25 ... +70 °C
• during storage	-25 ... +70 °C
• during transport	-25 ... +70 °C
• during installation	-25 ... +70 °C
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
• to water	Conditional resistance
Radiological resistance / to UV radiation	resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	Yes
• silicon-free	Yes
Cable length / with 100BaseTX / for Industrial Ethernet	100 m
Standards, specifications, approvals	
UL/ETL listing / with 300 V rating	Yes: CMG / PLTC / SunRes
UL/ETL style / with 600 V rating	Yes

Verification of suitability

- RoHS conformity

Standard for structured cabling

letzte Änderung:

Yes

Cat 5e (data cores), AWG 22 (power cores)

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