

product description

Hybrid cable (data and energy wires), product sold by meter, unassembled

Industrial Ethernet Hybrid Cable 2x2+4x 0.34, flexible Cable, 4x CU CAT5, shielded (0.75 mm) and 4x CU (0.34 mm²) for IE FC modular outlet with Power insert and IP67 hybrid plug-in connector Sold by the meter max. delivery unit 1000 m, minimum order quantity 20 m.



suitability for use
cable designation

Ethernet hybrid cable for transfer of data and power
2YH (ST) C 2x2x0.75/1.5LI LIH H 2x2x0.34/1.6GN FRNC

electrical data

attenuation factor per length	
• at 10 MHz / maximum	0.075 dB/m
• at 100 MHz / maximum	0.26 dB/m
impedance	
• at 1 MHz ... 100 MHz	100 Ω
relative symmetrical tolerance	
• of the characteristic impedance at 1 MHz ... 100 MHz	15 %
near-end crosstalk per length / at 1 MHz ... 100 MHz	0.353 dB/m
transfer impedance per length / at 10 MHz	10 mΩ/m
loop resistance per length / maximum	120 Ω/km
insulation resistance coefficient	500 GΩ·m
operating voltage / maximum	80 V
operating voltage / RMS value	100 V
conductor cross section / of the power line	0.34 mm ²
continuous current / of the power lines	5 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	8
type of electrical connection / FastConnect	No
core diameter / of AWG22 insulated conductor	0.76 mm
outer diameter	
• of inner conductor	0.76 mm
• of the wire insulation	1.5 mm
• of the inner sheath of the cable	3.9 mm
• of cable sheath	8.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
• of the wire insulation	polyethylene (PE)
• of the inner sheath of the cable	FRNC
• of cable sheath	FRNC
color	
• of the insulation of data wires	white / yellow / blue / orange
• of the power line insulation	Black/brown
• of cable sheath	green
bending radius	

<ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	42.5 mm
tensile load / maximum	85 mm
weight per length	260 N
	105 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note 	-25 ... +70 °C -25 ... +70 °C -25 ... +70 °C -25 ... +70 °C
fire behavior	Electrical properties measured at 20 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0490
class of burning behaviour / according to EN 13501-6	flame-retardant according to IEC 60332-3-24 (Category C)
chemical resistance	Eca
<ul style="list-style-type: none"> • to mineral oil • to grease • to water 	Conditional resistance Conditional resistance Conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> • halogen-free • silicon-free 	Yes Yes
wire length / with 100BaseTX / for Industrial Ethernet	100 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; CMG / PLTC / SunRes
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
<ul style="list-style-type: none"> • EAC approval • RoHS conformity 	Yes Yes
standard for structured cabling	Cat 5e (data cores), AWG 22 (power cores)
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
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