

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 (0.75mm) and 4x CU (0.34 mm<sup>2</sup>) for IE FC modular outlet with Power insert and IP67 hybrid plug-in connector Sold by the meter Max. delivery length 1000 m, Minimum order 20 m



suitability for use	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
<b>electrical data</b>	
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 <sup>2</sup>
continuous current / of the power lines	5 A
<b>mechanical data</b>	
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

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