

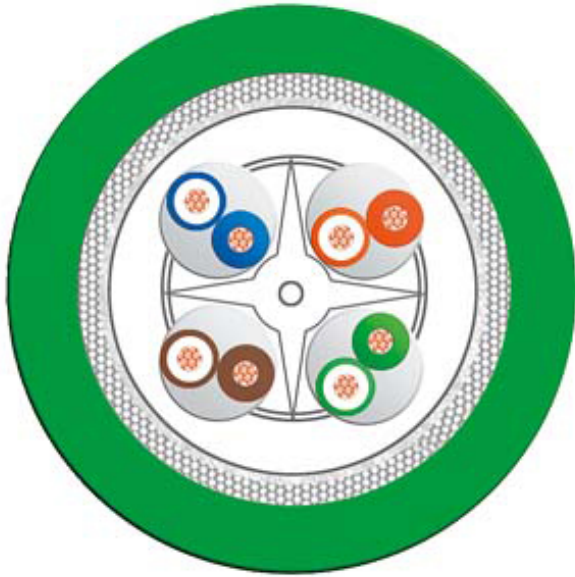
### Product type designation

Product description

### IE FC TP Flexible Cable GP 4x2 (AWG 24, Type C)

Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled

IE FC TP FLEXIBLE CABLE GP 4X2, TP-INSTALLATIONS CABLE CAT6 FOR CONNECTING TO IE FC RJ45 PLUG 4X2, AWG24, SOLD BY THE METER, MAX. CONSIGNMENT: 1000 M, MIN. LENGTH ORDERED: 20 M



Suitability for use	Flexible cable for quick assembly, for occasionally moving machine parts
Cable designation	LI02YSH (ST) CY 4x2x0,22/1,05- 100 GN
<b>Electrical data</b>	
Damping ratio per length	
<ul style="list-style-type: none"> <li>at 10 MHz / maximum</li> </ul>	0.089 dB/m
<ul style="list-style-type: none"> <li>at 100 MHz / maximum</li> </ul>	0.287 dB/m
<ul style="list-style-type: none"> <li>at 250 MHz / maximum</li> </ul>	0.466 dB/m
<ul style="list-style-type: none"> <li>at 300 MHz / maximum</li> </ul>	0.514 dB/m
<ul style="list-style-type: none"> <li>at 500 MHz / maximum</li> </ul>	0.679 dB/m
Impedance	
<ul style="list-style-type: none"> <li>at 1 MHz ... 100 MHz</li> </ul>	100 Ω
Near-end crosstalk per length	
<ul style="list-style-type: none"> <li>at 1 MHz ... 100 MHz</li> </ul>	0.453 dB/m
<ul style="list-style-type: none"> <li>at 1 MHz ... 250 MHz</li> </ul>	0.393 dB/m
<ul style="list-style-type: none"> <li>at 1 MHz ... 300 MHz</li> </ul>	0.381 dB/m

<ul style="list-style-type: none"> <li>• at 1 MHz ... 500 MHz</li> </ul>	0.348 dB/m
Transfer impedance per length / at 10 MHz	20 mΩ/m
Loop resistance per length / maximum	180 mΩ/m
Insulation resistance coefficient	5000 GΩ·m
Operating voltage	
<ul style="list-style-type: none"> <li>• RMS value</li> </ul>	100 V
NVP value in percent	68 %

### Mechanical data

Number of electrical cores	8
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Type of electrical connection / FastConnect	Yes
Core diameter	
<ul style="list-style-type: none"> <li>• of the AWG24 core</li> </ul>	0.51 mm
Outer diameter	
<ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of the wire insulation</li> <li>• of the inner sheath of the cable</li> <li>• of cable sheath</li> </ul>	0.6 mm 1.05 mm 6.4 mm 8 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
Material	
<ul style="list-style-type: none"> <li>• of the wire insulation</li> <li>• of the inner sheath of the cable</li> <li>• of cable sheath</li> </ul>	PE FRNC PVC
Color	
<ul style="list-style-type: none"> <li>• of the insulation of data wires</li> <li>• of cable sheath</li> </ul>	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown green
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	24 mm 40 mm
Tensile load / maximum	100 N
Weight per length	86 kg/km

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C
Burning behavior	flame resistant according to IEC 60332-3-24 (Category C)
Chemical resistance	

<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> <li>• to water</li> </ul>	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance
Radiological resistance / to UV radiation	resistant

### Product properties, functions, components / general

Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	No Yes
Cable length / for Industrial Ethernet	
<ul style="list-style-type: none"> <li>• with 100BaseTX</li> <li>• with 1000BaseT</li> <li>• for 10GBase T</li> </ul>	80 m 80 m 70 m

### Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG
UL/ETL style / 600 V Rating	No
Certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• RoHS conformity</li> </ul>	Yes Yes
product conformity	
<ul style="list-style-type: none"> <li>• ANSI/TIA-EIA 568-B.2 Cat.5e</li> <li>• IEC 61784-5-2-CP 2/2 (Ethernet/IP)</li> </ul>	Yes Yes
Standard for structured cabling	Cat6A
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No No No No No No No

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET 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: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</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="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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