

### Product type designation

Product description

### IE TP CORD RJ45/RJ45

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100MB)

SIMATIC NET, IND. ETHERNET TP CORD RJ45/RJ45, TP CORD PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 0.5 M



Suitability for use	Easy connection of data terminals to the IE FC cabling system
Cable designation	LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN
Wire length	0.5 m

### Electrical data

Damping ratio per length	
<ul style="list-style-type: none"> <li>• at 10 MHz / maximum</li> <li>• at 100 MHz / maximum</li> <li>• at 300 MHz / maximum</li> <li>• at 600 MHz / maximum</li> </ul>	<p>0.09 dB/m</p> <p>0.285 dB/m</p> <p>0.495 dB/m</p> <p>0.75 dB/m</p>
Impedance	
<ul style="list-style-type: none"> <li>• at 1 MHz ... 100 MHz</li> <li>• at 10 MHz ... 600 MHz</li> </ul>	<p>100 Ω</p> <p>100 Ω</p>
Relative symmetrical tolerance	
<ul style="list-style-type: none"> <li>• of the characteristic impedance at 1 MHz ... 100 MHz</li> <li>• of the characteristic impedance at 10 MHz ... 600 MHz</li> </ul>	<p>15 %</p> <p>6 %</p>

Transfer impedance per length / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	300 mΩ/m
Insulation resistance coefficient	150 GΩ·m
Operating voltage	
• RMS value	80 V

### Mechanical data

Number of electrical cores	4
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Core diameter	
• of AWG26 core	0.48 mm
Outer diameter	
• of inner conductor	0.48 mm
• of the wire insulation	0.98 mm
Width / of cable sheath	5.8 mm
Symmetrical tolerance of width / of cable sheath	0.2 mm
Thickness / of cable sheath	3.7 mm
Symmetrical tolerance of thickness / of cable sheath	0.2 mm
Material	
• of the wire insulation	PE
• of cable sheath	PVC
Color	
• of the insulation of data wires	white/blue, white/orange
• of cable sheath	green
Bending radius	
• with single bend / minimum permissible	24 mm
• with multiple bends / minimum permissible	42 mm
Weight per length	32 kg/km

### Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-40 ... +70 °C
Burning behavior	flame resistant according to IEC 60332-2-1
Chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
Protection class IP	IP20

### Product properties, functions, components / general

Product feature	
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- halogen-free
- silicon-free

No  
Yes

### Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Certificate of suitability	
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	Yes
Standard for structured cabling	Cat6
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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