

### Product type designation

Product description

### IE TP XP Cord RJ45/RJ45, 4x2

Crossover patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)

Industrial Ethernet TP XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2 Pre-assembled with 2 RJ45 connectors, length 2 m



Suitability for use	Easy connection of data terminals to the IE FC cabling system
Cable designation	LI 02YSCH 4x2x0,15 PIMF GN FRNC
Wire length	2 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>0.086 dB/m</p> <p>0.28 dB/m</p> <p>0.501 dB/m</p> <p>0.735 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>10 %</p>

Transfer impedance per length / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	290 mΩ/m
Operating voltage <ul style="list-style-type: none"> <li>• RMS value</li> </ul>	80 V
NVP value in percent	80 %

#### 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
Core diameter <ul style="list-style-type: none"> <li>• of AWG26 core</li> </ul>	0.5 mm
Outer diameter <ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>	0.5 mm 1 mm 6.2 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
Material <ul style="list-style-type: none"> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>	PE FRNC
Color <ul style="list-style-type: none"> <li>• of the insulation of data wires</li> <li>• of cable sheath</li> </ul>	white/blue, white/orange, white/green, white/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>	31 mm 43.5 mm
Weight per length	50 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> <li>• Note</li> </ul>	-25 ... +80 °C -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C In fixed installation -40 °C to 80 °C
Burning behavior	flame resistant according to IEC 60332-1
Chemical resistance <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
Protection class IP	IP20

#### Product properties, functions, components / general

Product feature	
-----------------	--

- halogen-free
- silicon-free

Yes  
Yes

### Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	Yes
Certificate of suitability	
• UL approval	Yes
Standard for structured cabling	Cat6A
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

### Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

**last modified:**

07/31/2018