

### Product type designation

Product description

### IE TP XP Cord 9x9, 2x2

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

SIMATIC NET, IND. ETHERNET TP XP CORD 9/9, TP CORD PREASSEMBLED W. 2 X 9-PIN ITP CONNECT., CROSSED TRANSMISSION AND RECEPTION CABLE LENGTH 1 M



Figure similar

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
Cable length	1 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

### 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 <ul style="list-style-type: none"> <li>• of AWG26 core</li> </ul>	0.48 mm
Outer diameter <ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of the wire insulation</li> </ul>	0.48 mm 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 <ul style="list-style-type: none"> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>	PE PVC
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 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 42 mm
Weight per length	32 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 ... +70 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
Burning behavior	flame resistant according to DIN VDE 0472, Teil 804, Prüftart B
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 property <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	No Yes
---	-----------

#### Standards, specifications, approvals

Certificate of suitability <ul style="list-style-type: none"> <li>• UL approval</li> </ul>	Yes
Standard for structured cabling	Cat7
Marine classification association	

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

No  
No  
No  
No  
No  
No  
No

## Further Information / Internet Links

### Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

**last modified:**

16.03.2015