

Product type designation

Product description

IE TP XP Cord 9-45/RJ45, 2x2

Crossover patch cable, preferred length, pre-assembled with one 9-pole D-sub connector (45 degree cable outlet) and one RJ45 connector

SIMATIC NET, IND. ETHERNET TP XP CORD 9-45/RJ45, TP CORD PREASS. WITH 1 X RJ45 CONNECTOR A. 1X9-PIN ITP CONN. 45 DEGR. CABLE OUTLET, L = 1 M, CROSSED TRANSMISSION AND RECEPTION CABLE



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"> at 10 MHz / maximum at 100 MHz / maximum at 300 MHz / maximum at 600 MHz / maximum 	<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"> at 1 MHz ... 100 MHz at 10 MHz ... 600 MHz 	<p>100 Ω</p> <p>100 Ω</p>
Relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 1 MHz ... 100 MHz of the characteristic impedance at 10 MHz ... 600 MHz 	<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
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Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Core diameter	0.48 m
<ul style="list-style-type: none"> • of AWG26 core 	
Outer diameter	
<ul style="list-style-type: none"> • of inner conductor 	0.48 mm
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • of the wire insulation 	PE
<ul style="list-style-type: none"> • of cable sheath 	PVC
Color	
<ul style="list-style-type: none"> • of the insulation of data wires 	white/blue, white/orange
<ul style="list-style-type: none"> • of cable sheath 	green
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible 	24 mm
<ul style="list-style-type: none"> • with multiple bends / minimum permissible 	42 mm
Weight per length	32 kg/km

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> • during installation 	-40 ... +70 °C
Burning behavior	flame resistant according to DIN VDE 0472, Teil 804, Prüftart B
Chemical resistance	
<ul style="list-style-type: none"> • to mineral oil 	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
<ul style="list-style-type: none"> • to grease 	Conditional resistance
Protection class IP	IP20

Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> • halogen-free 	No
<ul style="list-style-type: none"> • silicon-free 	Yes

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> • UL approval 	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