

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)
SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 0.5 M



Suitability for use	Easy connection of data terminals to the IE FC cabling system
Cable designation	LI 02YSCH 4x2x0,15 PIMF GN FRNC
Cable length	0.5 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 	0.086 dB/m 0.28 dB/m 0.501 dB/m 0.735 dB/m
Impedance	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz at 10 MHz ... 600 MHz 	100 Ω 100 Ω
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 	15 % 10 %
Transfer impedance per length / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	290 mΩ/m
NVP value in percent	80 %

Mechanical data

Number of electrical cores	8
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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"> • of AWG26 core 	0.5 mm
Outer diameter <ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of cable sheath 	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"> • of the wire insulation • of cable sheath 	PE FRNC
Color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	white/blue, white/orange, white/green, white/brown green
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	31 mm 43.5 mm
Weight per length	50 kg/km

Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • Note 	-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"> • to mineral oil • to grease 	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"> • halogen-free • silicon-free 	Yes Yes
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Standards, specifications, approvals

Certificate of suitability <ul style="list-style-type: none"> • UL approval 	Yes
Standard for structured cabling	Cat6A
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>

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