

Product type designation

Product description

IE TP Cord RJ45/RJ45, 4x2

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)
SIMATIC NET INDUSTRIAL ETHERNET TP CORD RJ45/RJ45, CAT 6A, TP CABLE 4X2, PREASSEMBLED W. W. 2 RJ45 CONNECTORS, L = 1 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	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>0.086 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"> • 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>10 %</p>
Transfer impedance per length / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	290 mΩ/m
Insulation resistance coefficient	500 GΩ·m
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"> • 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

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|---|----|
| • 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

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|---|---|
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/automation/net/catalog |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

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