

Product type designation
(product description)

IE TP CORD RJ45/RJ45

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100MB)
Industrial Ethernet TP Cord RJ45/RJ45, TP cord Pre-assembled with 2 RJ45 connector, Length 1 m



Suitability for use	Easy connection of data terminals to the IE FC cabling system
(wire 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 	0.09 dB/m
<ul style="list-style-type: none"> • at 100 MHz / maximum 	0.285 dB/m
<ul style="list-style-type: none"> • at 300 MHz / maximum 	0.495 dB/m
<ul style="list-style-type: none"> • at 600 MHz / maximum 	0.75 dB/m
Impedance	
<ul style="list-style-type: none"> • at 1 MHz ... 100 MHz 	100 Ω
<ul style="list-style-type: none"> • at 10 MHz ... 600 MHz 	100 Ω
Relative symmetrical tolerance	
<ul style="list-style-type: none"> • of the characteristic impedance at 1 MHz ... 100 MHz 	15 %
<ul style="list-style-type: none"> • of the characteristic impedance at 10 MHz ... 600 MHz 	6 %

Transfer impedance per length / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum (insulation resistance coefficient)	300 mΩ/m 150 GΩ·m
Operating voltage	
• RMS value	80 V

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	
• of AWG26 core	0.48 mm
Outer diameter	
• of inner conductor	0.48 mm
• 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	
• of the wire insulation	polyethylene (PE)
• of cable sheath	PVC
Color	
• of the insulation of data wires	white/blue, white/orange
• of cable sheath	green
Bending radius	
• with single bend / minimum permissible	24 mm
• with multiple bends / minimum permissible	42 mm
Weight per length	32 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-40 ... +70 °C
(fire behavior)	flame resistant according to IEC 60332-2-1
Chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
Protection class IP	IP20

Product properties, functions, components / general

Product feature	
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- halogen-free
- silicon-free

No
Yes

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
<ul style="list-style-type: none"> • Certificate of suitability / UL approval 	Yes
Standard for structured cabling	Cat5
Marine classification association	
<ul style="list-style-type: none"> • 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/industry/infocenter>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

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