

Product type designation

Product description

IE TP Cord RJ45/RJ45, 4x2

Highly flexible bus cable (4-core), sold by the meter, unassembled Industrial Ethernet TP Cord RJ45/RJ45, CAT 6A, TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 2 m



Suitability for use	Easy connection of data terminals to the IE FC cabling system
Cable designation	LI 02YSCH 4x2x0,15 PIMF GN FRNC
Wire length	2 m
Electrical data	
Number of electrical connections	2
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 	15 %

<ul style="list-style-type: none"> • of the characteristic impedance at 10 MHz ... 600 MHz 	10 %
Transfer impedance per length / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	290 mΩ/m
Operating voltage	
<ul style="list-style-type: none"> • RMS value 	80 V
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 	polyethylene (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 feature	
• halogen-free	Yes
• silicon-free	Yes

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	Yes; E130266 AWM STYLE 21279
Certificate of suitability	
• UL approval	Yes
Standard for structured cabling	Cat6A
Marine classification association	
• 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	
• 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/industry/infocenter
• 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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