

product type designation

product description

IE TP XP cord RJ45/RJ45, crossed

Crossover patch cable, preferred length, preassembled with two RJ45 connectors (10/100MB)

Industrial Ethernet TP XP Cord RJ45/RJ45, TP cord pre-assembled with 2 RJ45 plug, send and receive line crossed, length 0.5 m.



product brand name

Technical Product Detail Page

suitability for use

cable designation

wire length

SIMATIC NET

<https://i.siemens.com/1P6XV1850-2HE50>

Easy connection of terminal devices to the IE FC cabling system

LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN

0.5 m

electrical data

number of electrical connections

attenuation factor per length

- at 10 MHz / maximum
- at 100 MHz / maximum
- at 300 MHz / maximum
- at 600 MHz / maximum

2

0.09 dB/m
0.285 dB/m
0.495 dB/m
0.75 dB/m

impedance

- at 1 MHz ... 100 MHz
- at 10 MHz ... 600 MHz

100 Ω
100 Ω

relative symmetrical tolerance

- of the characteristic impedance at 1 MHz ... 100 MHz
- of the characteristic impedance at 10 MHz ... 600 MHz

15 %
6 %

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

300 mΩ/m

insulation resistance coefficient

150 GΩ·m

operating voltage

- RMS value

80 V

mechanical data

number of electrical cores

design of the shield

core diameter

- of AWG26 insulated conductor

outer diameter

- of inner conductor
- of the wire insulation

width / of cable sheath

symmetrical tolerance of width / of cable sheath

thickness / of cable sheath

symmetrical tolerance of thickness / of cable sheath

material

4

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

0.48 mm

0.48 mm
0.98 mm

5.8 mm

0.2 mm

3.7 mm

0.2 mm

• of the wire insulation • of cable sheath	polyethylene (PE) PVC
color • of the insulation of data wires • of cable sheath	white/blue, white/orange green
bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible	24 mm 42 mm
weight per length	32 kg/km
ambient conditions	
ambient temperature • during operation • during storage • during transport • during installation	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
fire behavior	flame resistant according to IEC 60332-2-1
chemical resistance • to mineral oil • to grease	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
protection class IP	IP20
product features, product functions, product components / general	
product feature • halogen-free • silicon-free	No Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability • EAC approval • UL approval	Yes Yes
standard for structured cabling	Cat5
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (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: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available

and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)

[Manufacturer Declara-
tion](#)



[China RoHS](#)

General Product Approval	Test Certificates	Industrial Communication
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[Fire safety / Physical
security](#)



[Special Test Certific-
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