

### product type designation

product description

### IE TP Converter Cord 15/RJ45

Patch cable, preferred length, preassembled with one 15-pole D-sub female connector (slide lock) and one RJ45 connector

TP converter cord 15/RJ45 for Industrial Ethernet TP Cord, pre-assembled w. 1x 15-pole ITP socket and 1x RJ45 unit, for the transformation of an RJ45 terminal system to an ITP terminal system, with Mounting bracket, length 2 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1850-2EH20>

suitability for use

Easy connection of terminal devices to the ITP cabling system

cable designation

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

wire length

1 m

### electrical data

number of electrical connections

2

attenuation factor per length

- at 10 MHz / maximum 0.09 dB/m
- at 100 MHz / maximum 0.285 dB/m
- at 300 MHz / maximum 0.495 dB/m
- at 600 MHz / maximum 0.75 dB/m

impedance

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

relative symmetrical tolerance

- of the characteristic impedance at 1 MHz ... 100 MHz 15 %
- 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

300 mΩ/m

insulation resistance coefficient

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 insulated conductor 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)

<ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>	PVC
color	
<ul style="list-style-type: none"> <li>• of the insulation of data wires</li> </ul>	white/blue, white/orange
bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>	24 mm
<ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul>	42 mm
weight per length	32 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during installation</li> </ul>	-40 ... +70 °C
fire behavior	flame resistant according to DIN VDE 0472, part 804, test type B
chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> </ul>	conditional resistance
<ul style="list-style-type: none"> <li>• to grease</li> </ul>	Conditional resistance
protection class IP	IP20
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	No
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability	
<ul style="list-style-type: none"> <li>• EAC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
standard for structured cabling	Cat5e
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Germanische Lloyd (GL)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>• to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAX-Download-Manager</li> </ul>	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . 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.

Approvals / Certificates

General Product Approval



[Declaration of Con-  
formity](#)



[Manufacturer Declara-  
tion](#)

[China RoHS](#)

General Product Approval



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10/28/2025