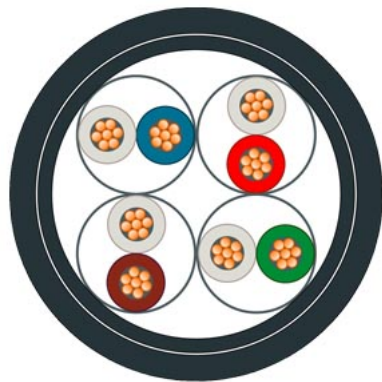


product type designation

product description



IE TP Train Cable 4x2 (AWG24/7)

Flexible, shielded bus cable with tinned copper leads (8-core) for rail applications, sold by the meter, unassembled

IE TP TRAIN Cable 4x 2; CAT7 TP installation cable for Rail applications for connection to FC M12 Plug PRO 4x 2, Railway-certified, 8-core, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m.

suitability for use

For laying in rail vehicles and buses

electrical data

attenuation factor per length

- at 10 MHz / maximum
- at 100 MHz / maximum
- at 250 MHz / maximum

0.063 dB/m  
0.207 dB/m  
0.343 dB/m

impedance

- at 1 MHz ... 100 MHz

100 Ω

coupling loss / at 30 MHz ... 100 MHz / minimum

60 dB

transfer impedance per length / at 10 MHz

5 mΩ/m

loop resistance per length / maximum

124 mΩ/m

insulation resistance coefficient

5000 GΩ·m

operating voltage

- RMS value

125 V

mechanical data

number of electrical cores

8

design of the shield

Overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires with additional pair shielding

type of electrical connection / FastConnect

No

core diameter

- of AWG24 insulated conductor

0.51 mm

outer diameter

- of the wire insulation
- of cable sheath

1.45 mm  
8.1 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.4 mm

material

- of the wire insulation
- of cable sheath

polyethylene (PE)  
Elastomer meshed electron beam

color

- of the insulation of data wires
- of cable sheath

white/blue, white/green, white/brown, white/orange  
Black

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

53 mm  
53 mm

tensile load / maximum

60 N

weight per length

79 kg/km

ambient conditions

ambient temperature

<ul style="list-style-type: none"><li>• during operation</li><li>• during storage</li><li>• during transport</li><li>• during installation</li></ul>	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -20 ... +60 °C	
fire behavior	BS 6853, DIN5510-2 Brandschutzstufe 1-4, prEN 45545-2 Hazard Level HL 1-HL 3, EN 50306-4, NF F 16-101, NFPA130	
chemical resistance <ul style="list-style-type: none"><li>• to mineral oil</li><li>• to grease</li><li>• to water</li></ul>	EN 50306-4 (72h/100 °C, IRM 902, 168h/70 °C, IRM 903) Conditional resistance conditional resistance	
radiological resistance / to UV radiation	resistant	
product features, product functions, product components / general		
product feature <ul style="list-style-type: none"><li>• halogen-free</li><li>• silicon-free</li></ul>	Yes Yes	
wire length / for Industrial Ethernet <ul style="list-style-type: none"><li>• with 100BaseTX</li><li>• with 1000BaseT</li></ul>	100 m 100 m	
standards, specifications, approvals		
UL/ETL listing / 300 V Rating	No	
UL/ETL style / 600 V Rating	No	
certificate of suitability <ul style="list-style-type: none"><li>• CE marking</li><li>• RoHS conformity</li></ul>	Yes Yes	
standard for structured cabling	Cat7	
Marine classification association <ul style="list-style-type: none"><li>• American Bureau of Shipping Europe Ltd. (ABS)</li><li>• French marine classification society (BV)</li><li>• Det Norske Veritas (DNV)</li><li>• Germanische Lloyd (GL)</li><li>• Lloyds Register of Shipping (LRS)</li><li>• Nippon Kaiji Kyokai (NK)</li><li>• Polski Rejestr Statkow (PRS)</li></ul>	No No No No No No No	
reference code <ul style="list-style-type: none"><li>• according to IEC 81346-2</li><li>• according to IEC 81346-2:2019</li></ul>	WG WGB	
further information / internet links		
internet link <ul style="list-style-type: none"><li>• to website: Image database</li><li>• to website: Industry Online Support</li></ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	
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 <a href="https://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, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)	
Approvals / Certificates		
General Product Approval	Test Certificates	Environment

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[Confirmation](#)

---

last modified:

3/25/2024 

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Siemens:](#)

[6XV18782T](#)