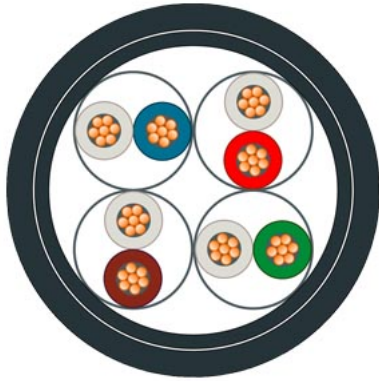


product type designation

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	
<ul style="list-style-type: none"> at 10 MHz / maximum at 100 MHz / maximum at 250 MHz / maximum 	<p>0.063 dB/m</p> <p>0.207 dB/m</p> <p>0.343 dB/m</p>
impedance	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> of AWG24 insulated conductor 	0.51 mm
outer diameter	
<ul style="list-style-type: none"> of the wire insulation of cable sheath 	<p>1.45 mm</p> <p>8.1 mm</p>
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
<ul style="list-style-type: none"> of the wire insulation of cable sheath 	<p>polyethylene (PE)</p> <p>Elastomer meshed electron beam</p>
color	
<ul style="list-style-type: none"> of the insulation of data wires of cable sheath 	<p>white/blue, white/green, white/brown, white/orange</p> <p>Black</p>
bending radius	
<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	<p>53 mm</p> <p>53 mm</p>
tensile load / maximum	60 N
weight per length	79 kg/km

ambient conditions

ambient temperature

<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	<p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-20 ... +60 °C</p>
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"> • to mineral oil • to grease • to water 	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"> • halogen-free • silicon-free 	<p>Yes</p> <p>Yes</p>
wire length / for Industrial Ethernet	
<ul style="list-style-type: none"> • with 100BaseTX • with 1000BaseT 	<p>100 m</p> <p>100 m</p>
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"> • CE marking • RoHS conformity 	<p>Yes</p> <p>Yes</p>
standard for structured cabling	Cat7
Marine classification association	
<ul style="list-style-type: none"> • 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) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
reference code	
<ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	<p>WG</p> <p>WGB</p>
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>https://sie.ag/2QdlxcP</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
last modified:	2/14/2023 