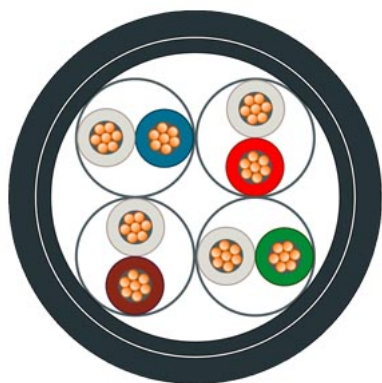


product type designation

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	0.063 dB/m
• at 100 MHz / maximum	0.207 dB/m
• at 250 MHz / maximum	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	1.45 mm
• of cable sheath	8.1 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
• of the wire insulation	polyethylene (PE)
• of cable sheath	Elastomer meshed electron beam
color	
• of the insulation of data wires	white/blue, white/green, white/brown, white/orange
• of cable sheath	Black
bending radius	
• with single bend / minimum permissible	53 mm
• with multiple bends / minimum permissible	53 mm
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 	-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"> • 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 	Yes Yes
wire length / for Industrial Ethernet <ul style="list-style-type: none"> • with 100BaseTX • with 1000BaseT 	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"> • CE marking • RoHS conformity 	Yes Yes
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) 	No No No No No No No
reference code <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	WG WGB
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 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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