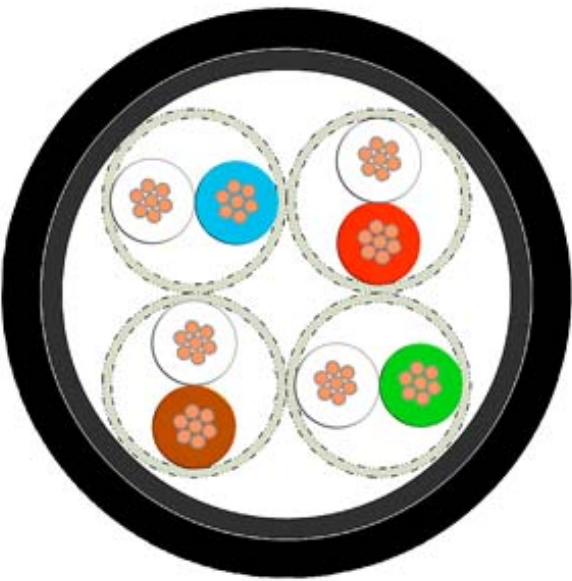


Product type designation
Product description

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 4X2; CAT7 TP INSTALLATION CABLE F. TRAIN APPLICATIONS, FOR CONNECTION TO FC M12 PLUG PRO 4X2, TRAIN CERTIFIED, 8 WIRE, SHIELDED, SOLD BY THE METER, MAX. CONSIGNMENT 1000 M, MIN. ORDER QUANTITY 20 M



Suitability for use	For laying in rail vehicles and buses
Electrical data	
Damping ratio 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
Relative symmetrical tolerance of the characteristic impedance at 1 MHz ... 100 MHz	5 %
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 tin-plated copper wires with additional pair shielding
Type of electrical connection / FastConnect	No
Core diameter • of the AWG24 core	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	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
Permitted ambient conditions	
Ambient temperature • during operation • during storage • during transport • during installation	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -20 ... +60 °C
Burning 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 • 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 properties, functions, components / general	
Product feature • halogen-free • silicon-free	Yes Yes
Wire length / for Industrial Ethernet • with 100BaseTX	100 m

- with 1000BaseT

100 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Certificate of suitability	
• CE marking	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat7
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

last modified:

10/12/2016