



Product: [RTB6C1.5](#)

RailTuff™ Thin wall cable 300V 6 C 1.5 mm² TC, XLPO Ins, TCBS, XLPO Outer Jkt

Product Description

RailTuff™ Thin wall cable 300V 6 Cores 1.5 mm² Tinned Copper, XLPO Insulation, Tinned Copper Braid Shield, XLPO Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	Applicable for fixed or moderate flexing wiring inside Railway Rolling Stock like High-Speed Trains (CRH, Shinkansen, ICE, TGV), Metro, locomotives, and trolley buses, etc
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Physical Characteristics (Overall)

Conductor		
AWG	Material	No. of Conductors
1.5 mm²	TC - Tinned Copper	6

Insulation	
Material	Nominal Diameter
XLP, XLPO, XLPE	2.25 mm

Color Chart

Color
White#1
White#2
White#3
White#4
White#5
White#6

Outer Shield	
Type	Material
Braid	Tinned Copper (TC)

Outer Jacket	
Material	Nominal Diameter
XLP, XLPO, XLPE	8.10 mm

Electrical Characteristics

Voltage	
Voltage Rating [V]	
300 /500 Vac	
450 Vdc	

Temperature Range

Operating Temperature Range:	-40°C to +90°C
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Mechanical Characteristics

Ozone Resistance:	(0.025~0.03)%/25°C/24h/1.5kVac/1min
Aging:	Long-term thermal endurance testing and demonstrated a lifetime of 20,000 hours at 120°C
Bulk Cable Weight:	144.9 kg/km

Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Compliant
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-2-25
Other Flammability:	EN 50305
Load Capacity:	Normal Fire Load : 743 kJ/m
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	10 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
Halogenfree:	HCl+HBr ≤ 0.5%
IEC 61034-2 - Smoke Density Min. Transmittance:	70%
IRM 903 Fuel Resistance Test:	IRM 903 oil at (70±2)°C for 168h
IRM 902 Mineral Oil Resistance Test:	IRM 902 oil at (100±2)°C for 24h
Acid Resistance:	N-Oxalic acid solution at (23±2)°C for 168h
Alkali Resistance:	N-Sodium hydroxide solution at 23°C for 168h
Toxicity of Insulation:	≤ 6
Toxicity of Jacket:	≤ 3
Fluorine Content Test IEC60684-2:	HF ≤ 0.1%

History

Update and Revision:	Revision Number: 0.21 Revision Date: 10-31-2022
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