



Product: [RTD3C2.5P](#)

RailTuff™ Thin wall cable EN 50306-4 3P 300V 3 C 2.5 mm² Str TC, XLPO Ins, XLPO Outer Jkt

Product Description

RailTuff™ Thin wall cable EN 50306-4 3P 300V 3 Cores 2.5 mm² Stranded Tinned Copper, XLPO Insulation, 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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Construction Details

Conductor

Size	Stranding	Material
2.5 mm ²	19x0.40 mm	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
XLP, XLPO, XLPE	2.75 mm (0.108 in)	White#1, White#2, White#3	D.C. stability on insulation at 300Vdc in 3% NaCl solution at (85±2)°C for 240h : No breakdown

Table Notes:	D.C. stability on insulation at 300Vdc in 3% NaCl solution at (85±2)°C for 240h : No breakdown
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Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Thickness
XLP, XLPO, XLPE	0.56 mm (0.022 in)

Overall Cable Diameter (Nominal):	7.95 ± 0.25 mm
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Electrical Characteristics

Electricals

Max. Conductor DCR
8.21 Ohm/km (2.50 Ohm/1000ft)

Voltage

Breakdown Voltage
2.5kVac/5min

Mechanical Characteristics

Temperature

Operating
-40°C to +120°C

Bend Radius

Stationary Min.	Installation Min.
80 mm (3.1 in)	80 mm (3.1 in)

Bulk Cable Weight:	125 kg/km (84.0 lbs/1000ft)
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Standards and Compliance

Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-2-25
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50306-4, EN 45545-2
European Halogen Free Standards:	IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 μ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
Other Standard Compliance(s):	TJ/CL 313

Product Notes

Notes:	EMEA PN: RTD3C25P; Table 3 Category MM, ROHS Compliant
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History

Update and Revision:	Revision Number: 0.42 Revision Date: 07-05-2024
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