



Product: [RTD8C0.75P](#)

RailTuff™ Thin wall cable EN 50306-4 3P 300V 8 C 0.75 mm² Str TC, XLPO Ins, XLPO Outer Jkt

Product Description

RailTuff™ Thin wall cable EN 50306-4 3P 300V 8 Cores 0.75 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
0.75 mm²	37x0.16 mm	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
XLP, XLPO, XLPE	1.62 mm (0.0638 in)	White#1, White#2, White#3, White#4, White#5, White#6, White#7, White#8	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	

Outer Shield

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

Outer Jacket

Material	Nom. Thickness
XLP, XLPO, XLPE	0.42 mm (0.017 in)
Overall Cable Diameter (Nominal): 7.3 ± 0.25 mm	

Electrical Characteristics

Electricals

Max. Conductor DCR
26.7 Ohm/km (8.14 Ohm/1000ft)

Voltage

Breakdown Voltage
2.5kVac/5min

Mechanical Characteristics

Temperature

Operating
-40°C to +120°C

Bend Radius

Stationary Min.	Installation Min.
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73 mm (2.9 in)	73 mm (2.9 in)
Bulk Cable Weight:	110.4 kg/km (74.19 lbs/1000ft)

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 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
Other Standard Compliance(s):	TJ/CL 313

Product Notes

Notes:	Table 3 Category MM, ROHS Compliant
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History

Update and Revision:	Revision Number: 0.40 Revision Date: 07-15-2024
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