



Product: [RTE7P1.5P](#)

RailTuff™ Thin wall cable EN 50306-4 5P 300V 7Pr 1.5 mm² Str TC, XLPO Ins, TCBS, XLPO Inner Jkt, XLPO Outer Jkt

Product Description

RailTuff™ Thin wall cable EN 50306-4 5P 300V 7 Pair 1.5 mm² Stranded Tinned Copper, XLPO Insulation, Tinned Copper Braid Shield, XLPO Inner Jacket, 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
1.5 mm ²	37x0.23 mm	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
XLP, XLPO, XLPE	0.35 mm (0.014 in)	2.25 mm (0.0886 in)	White#1, White#2, White#3, White#4, White#5, White#6, White#7, White#8, White#9, White#10, White#11, White#12, White#13, White#14	D.C. stability on insulation at 300Vdc in 3% NaCl solution at (85±2)°Cfor 240h : No breakdown

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

Outer Shield

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

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
XLP, XLPO, XLPE	0.38 mm (0.015 in)	5.70 mm (0.224 in)

Outer Jacket

Nom. Thickness	Nom. Diameter
0.82 mm (0.032 in)	18.90 mm (0.7441 in)

Overall Cable Diameter (Nominal): 18.9 ± 0.30 mm

Electrical Characteristics

Electricals

Max. Conductor DCR
13.7 Ohm/km (4.18 Ohm/1000ft)

Voltage

Breakdown Voltage
2.5kVac/5min

Mechanical Characteristics

Temperature

Operating
-40°C to +120°C

Bend Radius

Stationary Min.	Installation Min.
189 mm (7.44 in)	189 mm (7.44 in)

Bulk Cable Weight:	399 kg/km (268 lbs/1000ft)
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Standards and Compliance

Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24
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: RTE7P15P; Table 5 Category MMM, ROHS Compliant
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History

Update and Revision:	Revision Number: 0.41 Revision Date: 07-04-2024
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