



**Product:** [RTC13C1.5P](#)

RailTuff™ Thin wall cable EN 50306-4 1P 300V 13 C 1.5 mm<sup>2</sup> Str TC, XLPO Ins, XLPO Outer Jkt

### Product Description

RailTuff™ Thin wall cable EN 50306-4 1P 300V 13 Cores 1.5 mm<sup>2</sup> 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
1.5 mm <sup>2</sup>	37x0.23 mm	TC - Tinned Copper

##### Insulation

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

##### Outer Jacket

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

Overall Cable Diameter (Nominal):	11.6 ± 0.40 mm
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#### 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.
46 mm (1.8 in)	35 mm (1.4 in)

Bulk Cable Weight:	275.0 kg/km (184.8 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 $\mu$ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
Other Standard Compliance(s):	TJ/CL 313

## Product Notes

Notes:	Table 1 Category MM, ROHS Compliant
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## History

Update and Revision:	Revision Number: 0.31 Revision Date: 07-04-2024
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