



Product: [RTC19C1.0P](#)

RailTuff™ Thin wall cable EN 50306-4 1P 300V 19 C 1 mm² Str TC, XLPO Ins, XLPO Outer Jkt

Product Description

RailTuff™ Thin wall cable EN 50306-4 1P 300V 19 Cores 1 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
1 mm²	37x0.18 mm	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
XLP, XLPO, XLPE	1.77 mm (0.0697 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, White#15, White#16, White#17, White#18, White#19	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):	10.5 ± 0.30 mm
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Electrical Characteristics

Electricals

Max. Conductor DCR
20 Ohm/km (6.1 Ohm/1000ft)

Voltage

Breakdown Voltage
2 kVac/5min

Mechanical Characteristics

Temperature

Operating
-40°C to +120°C

Bend Radius

Stationary Min.	Installation Min.
42 mm (1.7 in)	32 mm (1.3 in)

Bulk Cable Weight:	250 kg/km (170 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:	Table 1 Category MM, ROHS Compliant
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History

Update and Revision:	Revision Number: 0.31 Revision Date: 07-15-2024
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