



Product: [RTC19C0.5P](#)

RailTuff™ Thin wall cable EN 50306-4 1P 300V 19 C 0.5 mm² Str TC, XLPO Ins, XLPO Outer Jkt

Product Description

RailTuff™ Thin wall cable EN 50306-4 1P 300V 19 Cores 0.5 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 |
|------------------------|---|

Construction Details

Conductor

| Size | Stranding | Material |
|---------------------|------------|--------------------|
| 0.5 mm ² | 19x0.18 mm | TC - Tinned Copper |

Insulation

| Material | Nom. Insulation Diameter | Color Code | Notes |
|-----------------|--------------------------|---|--|
| XLP, XLPO, XLPE | 1.42 mm (0.0559 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): | 8.7 ± 0.30 mm |
|-----------------------------------|---------------|

Electrical Characteristics

Electricals

| Max. Conductor DCR |
|-------------------------------|
| 40.1 Ohm/km (12.2 Ohm/1000ft) |

Voltage

| Breakdown Voltage |
|-------------------|
| 2 kVac/5min |

Mechanical Characteristics

Temperature

| Operating |
|-----------------|
| -40°C to +120°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 35 mm (1.4 in) | 26 mm (1.0 in) |

| | |
|--------------------|----------------------------|
| Bulk Cable Weight: | 149 kg/km (100 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 μ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| Other Standard Compliance(s): | TJ/CL 313 |

Product Notes

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|--------|-------------------------------------|
| Notes: | Table 1 Category MM, ROHS Compliant |
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History

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| Update and Revision: | Revision Number: 0.31 Revision Date: 07-12-2024 |
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