



Product: [RMM3C50C25](#)

RailTuff™ Medium wall cable EN 50264-3-2 600V 3C50C25 MMS

Product Description

RailTuff™ Rolling stock medium wall power cable, RMM3C50C25mm2, EN 50264-3-2, 600V, Tinned Copper Conductor, 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

Element	Size	Stranding Class	Material
	50 mm ²	Class 5	TC - Tinned Copper
Ground	25 mm ²	Class 5	TC - Tinned Copper

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Conductor(s)	XLPO - Crosslink Polyolefin	11.60 mm (0.4567 in)	Black 1, Black 2, Black 3
Ground	XLPO - Crosslink Polyolefin	8.60 mm (0.339 in)	Yellow/Green

Outer Shield

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

Outer Jacket

Material	
XLPO - Crosslink Polyolefin	
Overall Cable Diameter (Nominal):	32.60 mm (1.283 in)

Electrical Characteristics

Electricals

Max. Conductor DCR
0.393 Ohms @ 20 Deg C
0.795 Ohm/km (0.242 Ohm/1000ft)

Voltage

Voltage Rating	Breakdown Voltage
600/1000 V	3.5 kVac/5min.

Mechanical Characteristics

Temperature

Operating	
-40°C to +120°C	
Bulk Cable Weight:	2163 kg/km (1453 lbs/1000ft)

Standards and Compliance

Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24, EN 50266-2-4
ISO/IEC Compliance:	IEC 60228, IEC 61034-2 - Smoke Density Min Transmittance = 70%
CENELEC Compliance:	EN 45545-2
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = 0.5%, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 , IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	TJ/CL 313

Product Notes

Notes:	EN 50264-3-2 Table 9 Category MMS; Toxicity test on both insulation and jacket as per EN 50305 Clause 9.2: 3; Toxicity test on both insulation and jacket as per EN 45545-2 Table 5-R15 and R16-HL3: 6
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History

Update and Revision:	Revision Number: 0.12 Revision Date: 05-31-2024
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