



Product: [RMG1C240](#)

RailTuff™ Medium wall cable 1800V 1 C 240 mm² Str TC,XLPO Ins

Product Description

RailTuff™ Medium wall cable 1800V 1 Core 240 mm² Stranded Tinned Copper, XLPO Insulation

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	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	1	240 mm²	1813x0.40 mm	Class 5	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLP, XLPO, XLPE	2.4 mm (0.094 in)	White, Black

Overall Cable Diameter (Nominal):	26.5 ± 0.50 mm
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Electrical Characteristics

Table Notes:	D.C. stability at 4.5kVdc in 3% NaCl solution at (85±2)°C for 240h : No breakdown
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Voltage

Voltage Rating	Breakdown Voltage
1800/3000V	6.5kVac/5min

Table Notes:	Dielectric strength on core in water for 1 hour (kVac): 10
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Mechanical Characteristics

Temperature

Operating
-40°C to +90°C

Bend Radius

Stationary Min.	Installation Min.
133 mm (5.24 in)	106 mm (4.17 in)

Table Notes:	Elongation test at -40: Elongation at break 30 %
Bulk Cable Weight:	2256 kg/km (1516 lbs/1000ft)

Standards and Compliance

Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50264-3-1, EN 45545-2
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = HCl+HBr ≤ 0.5%, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3

Other Standard Compliance(s):	TJ/CL 313
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Product Notes

Notes:	EMEA PN: RMG1C240;
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History

Update and Revision:	Revision Number: 0.32 Revision Date: 07-05-2024
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