Belden



Product: RMG1C50

RailTuff™ Medium wall cable 1800V 1 C 50 mm² Str TC,XLPO Ins

Product Description

RailTuff™ Medium wall cable 1800V 1 Core 50 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	1	50 mm²	371x0.40 mm	Class 5	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLP, XLPO, XLPE	2 mm (0.079 in)	White, Black

Overall Cable Diameter (Nominal):	13.7 ± 0.25 mm

Electrical Characteristics

Electricals

Max. Conductor DCR
0.393 Ohm/km (0.120 Ohm/1000ft)

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

Voltage

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

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

Mechanical Characteristics

Temperature

Operating
-40°C to +90°C

Bend Radius

Stationary Min.	Installation Min.
69 mm (2.7 in)	55 mm (2.2 in)

Bend Radius Table Notes:	Elongation test at -40:Elongation at break 30 %
Bulk Cable Weight:	557 kg/km (374 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

Product Notes

Notes:	EMEA PN: RMG1C50;

History

Update and Revision:	Revision Number: 0.34 Revision Date: 10-07-2026

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