Product: RMH1C120

RailTuff™ Medium wall single core cable EN 50264-3-1 1800V MM 1 Core 120 mm² Str TC, XLPO Ins, XLPO Jacket

Product Description

RailTuff™ Medium wall single core cable EN 50264-3-1 1800V MM 1 Core 120 mm² Stranded Tinned Copper, XLPO Insulation, XLPO Sheathed Cable

Technical Specifications

Product Overview

Suitable Applications:	For use in electric appliances as well as internal wiring of control panels in rail vehicles as fixed wiring, or wiring where limited flexing in operation is encountered. Typical uses are lighting circuits powered by accumulators, equipment control and monitoring circuit, auxiliary and electric heating circuits.

Construction Details

Conductor

Element	No. of Elements	Stranding	Stranding Class	Material
Conductor(s)	1	551x0.50 mm	Class 5	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE	2.2 mm (0.087 in)	19.6 mm (0.772 in)	White
	XLP, XLPO, XLPE			Black

Outer Jacket

Material	Nom. Thickness
XLP, XLPO, XLPE	1.0 mm (0.039 in)

Overall Cable Diameter (Nominal):	22.1 ± 0.80 mm

Electrical Characteristics

Electricals

Max. Conductor DCR
0.164 Ohm/km (0.0500 Ohm/1000ft)

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

Mechanical Characteristics

Temperature

Operating
-40°C to +90°C

Bend Radius

Stationary Min.	Installation Min.
111 mm (4.37 in)	88 mm (3.5 in)

Bulk Cable Weight:	1339.0 kg/km (899.77 lbs/1000ft)

Standards and Compliance

Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24
ISO/IEC Compliance:	IEC 60228, IEC 61034-2 - Smoke Density Min Transmittance = 70
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: RMH1C120;

History

Update and Revision:	Revision Number: 0.22 Revision Date: 05-31-2024