Product: RTB4C075

RailTuff Control 4C 0.75mm2, str TC, X-LSZH, EN 50306-3, EN45545-2

Product Description

RailTuff Control cable, 4 0.75mm2 stranded tinned copper with e-beam cross linked Low Smoke Zero Halogen Jacket and insulation, EN50306-3, EN45545-2 HL1-3

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 busses, etc.

Physical Characteristics (Overall)

Conductor

Material	No. of Conductors
TC - Tinned Copper	4

Insulation

Type	Material	Nominal Diameter
Insulation	XLPO - Crosslink Polyolefin	1.60 mm

Color Chart

Number	Color
Wire 1	White Nr.1
Wire 2	White Nr.2
Wire 3	White Nr.3
Wire 4	White Nr.4

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Color	Nominal Diameter
XLPO - Crosslink Polyolefin	Black	5.2 mm

Table Notes:	e-Beamed to Cross-link

Construction and Dimensions

Cabling

Description
4 wires twisted

Electrical Characteristics

Voltage

Voltage Rating [V]
300/500Vac

450Vdc

Temperature Range

Operating Temperature Range:	-40°C To +90°C

Mechanical Characteristics

Oil Resistance:	Yes

Standards

CENELEC Compliance:	EN 50306-3 and EN 45545-2 Hazard Level HL1-HL3
Other Specification:	Toxicity Index as per EN 50305: insulation 6 and jacket 3. Fluorine Content as per 60684-2: ≤ 0.1%

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2011/65/EU (RoHS 2):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	IRM 902 Oil at (100±2) for 24h and IRM 903 Oil at (70±2) for 168h
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	EN 50305 (9.1.1)
IEC 60754-1 - Halogen Amount:	Max 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
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length
RTB4C075-A500	Black	Reel	500 m

History

Update and Revision:	Revision Number: 0.28 Revision Date: 04-08-2022