



Product: [RMG1C6](#)

RailTuff™ Medium wall cable 1800V 1 C 6 mm<sup>2</sup> Str TC,XLPO Ins

### Product Description

RailTuff™ Medium wall cable 1800V 1 Core 6 mm<sup>2</sup> 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               | 6 mm <sup>2</sup> | 105x0.254 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): | 7.3 ± 0.20 mm |
|-----------------------------------|---------------|

#### Electrical Characteristics

|              |   |
|--------------|---|
| 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      |

|              |  |
|--------------|--|
| 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. |
|-----------------|-------------------|
| 29 mm (1.1 in)  | 22 mm (0.87 in)   |

|              |                                 |
|--------------|---------------------------------|
| Table Notes: | Bending test at -40°C: No crack |
|--------------|---------------------------------|

|                    |                                |
|--------------------|--------------------------------|
| Bulk Cable Weight: | 101.0 kg/km (67.87 lbs/1000ft) |
|--------------------|--------------------------------|

#### Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Flammability / Reaction to Fire: | IEC 60332-1-2, IEC 60332-2-25  |
| 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: RMG1C6; |
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## History

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