



Caledonian

Railway Cables

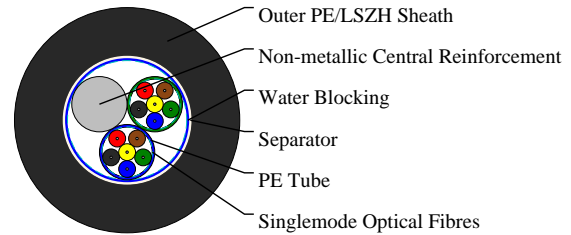
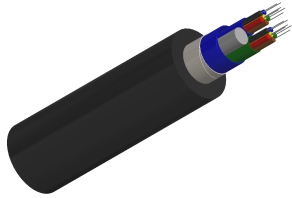
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Outdoor Single Mode Trackside Fiber Cables NR/PS/TEL/00014

Unarmoured Single Mode Trackside Fiber Cables

RO14-ML-B-9-2x6-F-2Y2Y



APPLICATIONS

The cables are fibre communications cable designed for use in high traffic and data rate requirements.

STANDARDS

NR/PS/TEL/00014 (formerly RT/E/PS/00014)

VOLTAGE RATING

600V DC/420V AC

CABLE CONSTRUCTION

Fibre: Step Index Singlemode Fibres in accordance with ITU-T recommendation G.652.9/125µm Fibre @ 1310nm & 1550nm.

Fibre Carrier: PE

Central Strength Member: Single continuous non-metallic.

Water blocking: Water blocking material.

Separator: PET (Polyester Tape).

Sheath: PE (Polyethylene) Type 03C to BS6234 or LSZH sheath.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 12 x OD.

Temperature Range: -20°C to +60°C (during operation); -10°C to +60°C (during installation)

Electrical Properties

Electrical Characteristics at 20°C:

Maximum Attenuation: G652

@1310nm: 0.35 dB/km

@1550nm: 0.22 dB/km

Maximum Chromatic Dispersion:

Between 1260 and 1360nm: 3.5 ps/(nm/km)

Between 1530 and 1565nm: 19 ps/(nm/km)

Zero Dispersion Wavelength: 1310±11 nm



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Zero Dispersion Slope:0.09 ps/(nm².km)

Numerical Aperture:0.14

Point discontinuity:0.1 dB

PMD (individual fiber):0.2 ps/km

Maximum Cutoff Wavelength:1260 nm

Cladding Diameter:125±1 μm

Core/Cladding Concentricity Error:≤0.5 μm

Cladding Non Circularity:≤1%

Coating Non Circularity:≤6%

Proof Test Level:100 (0.7) Kpsi (GN/m²)

Crush Resistance:300 N/cm

Maximum Laying Tension: From 12 to 72 FO: 2500;144 FO:3000 N

DIMENSION AND PARAMETERS

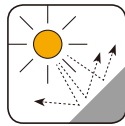
| No. of fibres | Nominal Cladding Thickness | Nominal Sheath Thickness | Nom. Overall Diameter | Approx. Weight |
|---------------|----------------------------|--------------------------|-----------------------|----------------|
| | μm | mm | mm | kg/km |
| 12 | 125 | 2 | 12 | 110 |



Laid In Ducts



Rated voltage



UV Resistant



Water Resistant