

## Caledonian

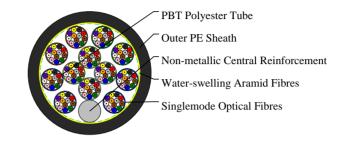
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#### ST2513/CT2243 Outdoor Single Mode Unarmoured Trackside Optical Fiber Cables

ROB3-ML-B-9-12x12-F-2Y





#### **APPLICATIONS**

The cables are designed for long distance telecom links on optical fibres along railway tracks. The cables are suitable for pulled through ducts or laid in channels.

#### **STANDARDS**

SNCF ST 2513-99

#### CABLE CONSTRUCTION

Fibres: Singlemode optical fibres G652 coloured (6 or 12 per tube) Tube: PBT polyester tubes From 12 to 72 OFs: 1 to 6 tubes; 144 OFs: 12 tubes. Central Strength Member: Non-metallic central reinforcement (FRP). Filling: Petroleum jelly + water-swelling yarns. Reinforcement: Water-swelling aramid fibres. Sheath: PE sheath.

#### PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: from 12 to 72 FO: 230mm; 144 FO: 340mm. Temperature Range: -30°C to +60°C (during operation); -10°C +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 Zero Dispersion Slope:0.09 ps/(nm2.km) Numerical Aperture:0.14



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Point discontinuity:0.1 dB PMD (individual fiber):0.2 ps/km Maximum Cutoff Wavelength:1260 nm Cladding Diameter:125±1 um Core/Cladding Concentricity Error:≤0.5 um 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	No. of Tubes × No. of Fibres/Tube	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
		mm	mm	kg/km
12	12 tubes of 12 OF	1.5	17	225



Laid In Channel



Laid In Ducts





Water Resistant

