



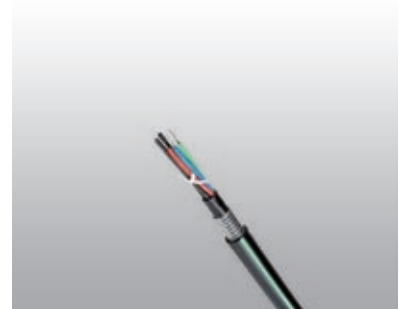
CT2242 Outdoor Single Mode Armoured Trackside Optical Fiber Cables

Applications

The cables are designed for long distance telecom links on optical fibres along railway tracks. The cables are suitable for installation directly in channels or buried.

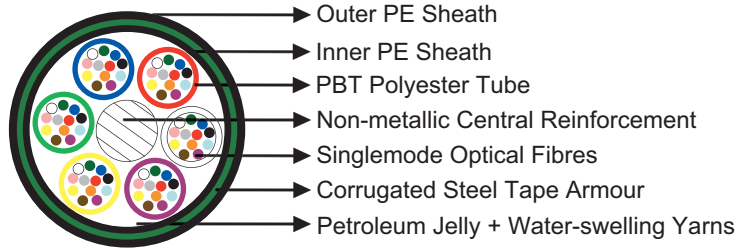
Standards

- SNCF CT 2242.6.1



Construction

- Fibres: Singlemode optical fibres G652 coloured (6 or 12 per tube).
- Central Strength Member: Non-metallic central reinforcement (FRP).
- Tube: PBT polyester tubes containing fibres.
- Filling: Petroleum jelly with water-swelling yarns to provide longitudinal watertightness.
- Inner Sheath: Low density polyethylene.
- Armour: 0.25mm thick corrugated steel tape armour.
- Outer Sheath: Low density polyethylene.



Electrical Characteristics at 20°C

Maximum Attenuation		G652
@1310nm	dB/km	0.35
@1550nm	dB/km	0.22
Maximum Chromatic Dispersion		
Between 1260 and 1360nm	ps/(nm/km)	3.5
Between 1530 and 1565nm	ps/(nm/km)	19
Zero Dispersion Wavelength	nm	1310±11
Zero Dispersion Slope	ps/(nm ² .km)	0.09
Numerical Aperture		0.14
Point discontinuity	dB	0.1
PMD (individual fiber)	ps/km	0.2
Maximum Cutoff Wavelength	nm	1260
Cladding Diameter	um	125±1
Core/Cladding Concentricity Error	um	≤0.5
Cladding Non Circularity	%	≤1
Coating Non Circularity	%	≤6
Proof Test Level	Kpsi (GN/m ²)	100 (0.7)
Crush Resistance	N/cm	450
Maximum Laying Tension	N	3000

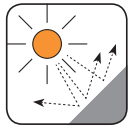
➤ Mechanical and Thermal Properties

- Minimum Bending Radius: 310mm.
- Temperature Range: -40°C to +70°C (during operation); -10°C +70°C (during installation)

➤ Dimensions and Weight

Cable Code	No. of fibres	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RO2242-ML-C-9-Tn×Fn-SR-2Y(STA)2Y	1-36	1.5	14.5	260
RO2242-ML-C-9-Tn×Fn-SR-2Y(STA)2Y	48-72	1.5	16.5	300
RO2242-ML-C-9-Tn×Fn-SR-2Y(STA)2Y	80-144	1.5	22.0	510

Tn: Number of tubes; Fn: Number of fibers in a tube



UV Resistant



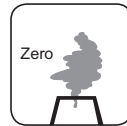
Water Resistant



Laid in Channel



Buried in Trench



Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1

