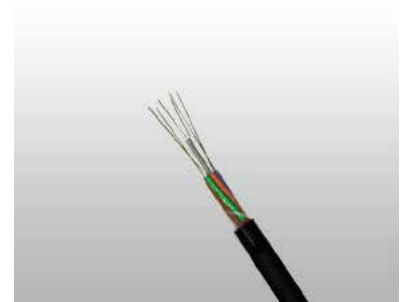


## Outdoor Single Mode Trackside Fiber Cables NR/PS/TEL/00014

### Applications

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



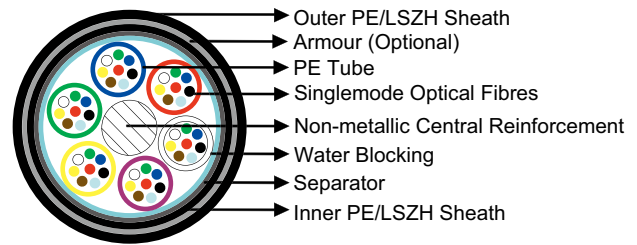
### Standards

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

### Construction

• Fibre: Step Index Singlemode Fibres in accordance with ITU-T recommendation G.652.9/125  $\mu\text{m}$  Fibre @ 1310nm & 1550nm.

- Fibre Carrier: PE
- Central Strength Member: Single continuous non-metallic.
  - Water blocking: Water blocking material.
  - Separator: PET (Polyester Tape).
  - Inner Sheath: PE (Polyethylene) Type 03C to BS6234 or LSZH Sheath.
  - Sheath : PE (Polyethylene) Type 03C to BS6234 or LSZH sheath.



### Optionally

Armoured Cables: Corrugated steel tape armoured cables can be offered as an option.

### 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 $\pm$ 11
Zero Dispersion Slope	ps/(nm <sup>2</sup> .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 <sup>2</sup> )	100 (0.7)
Crush Resistance	N/cm	300
Maximum Laying Tension	N	From 12 to 72 FO: 2500;144 FO:3000

## ➤ Mechanical 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)

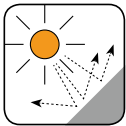
## ➤ Dimensions and Weight

### Unarmoured Single Mode Trackside Fiber Cables

Cable Code	No. of fibres	Nominal Cladding Thickness µm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
RO14-ML-B-9-2x4-F-2Y2Y	8	125	1.6	2.0	12.0	110
RO14-ML-B-9-2x6-F-2Y2Y	12	125	1.6	2.0	12.0	110
RO14-ML-B-9-4x5-F-2Y2Y	20	125	1.6	2.0	12.0	110
RO14-ML-B-9-8x6-F-2Y2Y	48	125	1.6	2.0	12.6	120
RO14-ML-B-9-16x6-F-2Y2Y	96	125	1.6	2.0	14.0	150

### Steel Tape Armoured Single Mode Trackside Fiber Cables

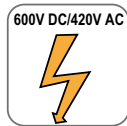
Cable Code	No. of fibres	Nominal Cladding Thickness µm	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
RO14-ML-B-9-2x4-F-2Y(STA)2Y	8	125	1.6	2.0	15.0	210
RO14-ML-B-9-2x6-F-2Y(STA)2Y	12	125	1.6	2.0	15.0	210
RO14-ML-B-9-4x5-F-2Y(STA)2Y	20	125	1.6	2.0	15.0	210



UV Resistant



Water Resistant

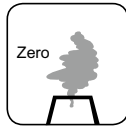


Rated Voltage



Laid In Ducts

PE Sheath



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

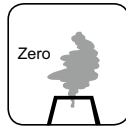
LSZH Sheath



Flame Retardant  
NF C32-070-2.1(C2)  
IEC 60332-1/EN 50265-2-1



Fire Retardant  
NF C32-070-2.2(C1)  
IEC 60332-3/EN50266



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



Low Smoke Emission  
IEC 61034/NFC20-902  
EN 50268/NF C32-073



Low Corrosivity  
EN 50267-2-2/NF C32-074  
IEC 60754-2/NF C20-453



Low Toxicity