

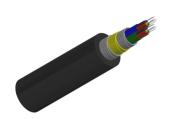
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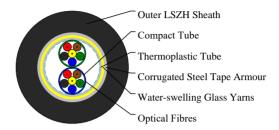
Railway Cables www.caledonian-cables.com

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K209A LSZH Armoured Optical Fiber Cables

RO/K209A-ML-C-9-2x6-SR-(STA)H





APPLICATIONS

The cables are designed for long distance telecommunication and using optical fibres in urban railways infrastructure. These low smoke halogen-free cables are laid on hooks, pulled through ducts or cable trays.

STANDARDS

RATP K209B or RATP K209A

CABLE CONSTRUCTION

Compact Tube: 6 or 12 singlemode optical fibres G652 or multimode fibers assembled under

thermoplastic "peelable" skin. Tube diameter: 1mm.

Filling: Water-swelling yarns.

Tube: Thermoplastic

Peripheral Strength Member: Water-swelling glass yarns.

Armour: Corrugated steel tape armour 25/100.

Sheath: LSZH

K209A Type: For K209A type, the cables have loose tubes with 6-12 fibers, steel wire strand as central strength ember, glass yarn reinforced, incorporating a corrugated steel tape armour and an outer UV stabilized LSZH jacket.

PHYSICAL AND THERMAL PROPERTIES

Bending Radius: 20 x OD

Temperature Range: -40°C to +60°C (during operation); -10°C +60°C (during installation)

Electrical Properties

Electrical Characteristics at 20°C:

Optical & Geometrical Properties for Single Mode Fibers:

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)



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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 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:30N/cm

Maximum Laying Tension: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	2 tubes of 6 OF	1.8	12	190









Impact Resistant



Laid In Cable Tray







Low Toxcity



Mineral Oil Resistant

