



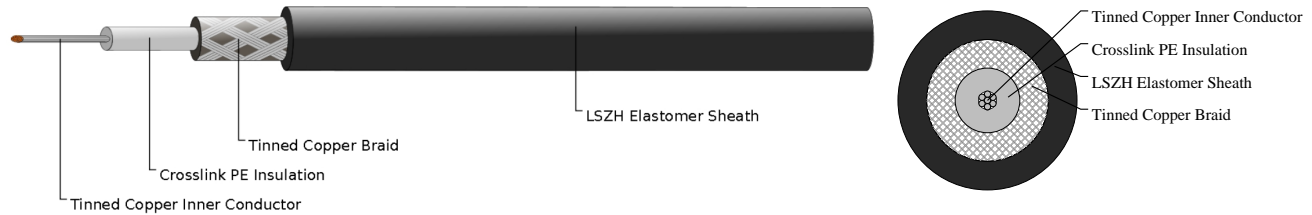
Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com

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FRA 59 SW4



APPLICATIONS

These cables are designed for flexible installations, inside and outside railway rolling stock.

STANDARDS

DIN 5510-2

CABLE CONSTRUCTION

Inner conductor: Tinned copper.

Insulation: Crosslink PE (PEX).

Outer conductor: Tinned copper braid.

Sheath: LSZH Elastomer.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 30mm (static)

Temperature Range: -40°C ~ +105°C

Electrical Properties

Electrical Characteristics at 20°C:

Impedance: 75±3 Ω

Nominal Capacitance: 67 pF/m

Minimum Insulation Resistance: 100000 MΩ.km

Inner Conductor Resistance: 58 MΩ/km

Outer Conductor Resistance: 16.1 MΩ/km

Attenuation:

@10MHz: 3 dB/100m

@50MHz: 8 dB/100m

@100MHz: 12 dB/100m

@150MHz: 15 dB/100m

@200MHz: 18 dB/100m

@300MHz: 23 dB/100m

@400MHz: 27 dB/100m

@450MHz: 29 dB/100m

@500MHz: 31 dB/100m

@600MHz: 35 dB/100m



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@800MHz:42 dB/100m

@850MHz:44 dB/100m

@900MHz:46 dB/100m

@950MHz:47 dB/100m

@1000MHz:49 dB/100m

Velocity of propagation:66%

DIMENSION AND PARAMETERS

No./Nominal Diameter of Strands	Conductor Diameter	Nominal Outer Conductor Diameter	Nom. Overall Diameter	Approx. Weight
no./mm	mm	mm	mm	kg/km
7/0.22	0.66	4.45	6.1	57



Acid & Alkaline Resistant



Fire Retardant
NF C32-070-2.2(C1)
IEC60332-3-24/EN50266-2.4



Flame Retardant
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2.1



Highly Flexible



Impact Resistant



Low Corrosivity
IEC60754-2/EN50267-2.2/3
NF C32-074/NF C20-453



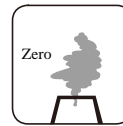
Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-902



Low Toxicity



Oil Resistant



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