



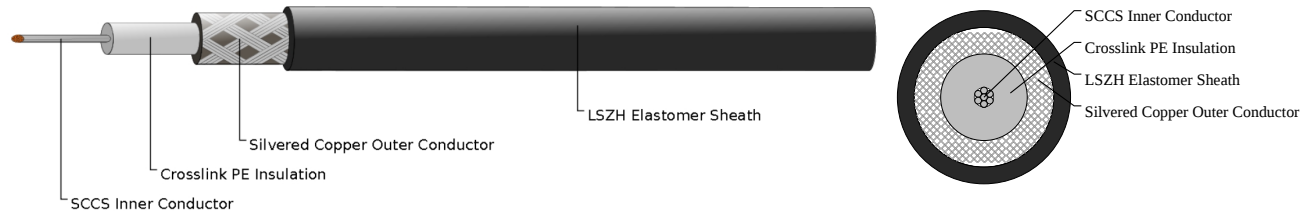
Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com

marketing@caledonian-cables.com

FRA 179 SW4



APPLICATIONS

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

STANDARDS

DIN 5510-2

CABLE CONSTRUCTION

Inner conductor: Stranded silver plated copper clad steel.

Insulation: Crosslink Foam PE (SPEX).

Outer conductor: Silver plated copper.

Sheath: LSZH Elastomer.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 5mm (static)

Temperature Range: -40°C ~ +105°C

Electrical Properties

Electrical Characteristics at 20°C:

Impedance: 75 ± 3 Ω

Nominal Capacitance: 60 pF/m

Minimum Insulation Resistance: 100000 MΩ.km

Inner Conductor Resistance: 800.5 MΩ/km

Outer Conductor Resistance: 27.9 MΩ/km

Attenuation:

@50MHz: 16 dB/100m

@100MHz: 24 dB/100m

@150MHz: 30 dB/100m

@200MHz: 34 dB/100m

@250MHz: 39 dB/100m

@300MHz: 43 dB/100m

@350MHz: 47 dB/100m

@400MHz: 51 dB/100m

@450MHz: 54 dB/100m

@500MHz: 57 dB/100m



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@550MHz:61 dB/100m

@600MHz:64 dB/100m

@700MHz:70 dB/100m

@750MHz:72 dB/100m

@800MHz:75 dB/100m

@850MHz:78 dB/100m

@900MHz:81 dB/100m

@950MHz:83 dB/100m

@1000MHz:76 dB/100m

Velocity of propagation:69.8%

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
7/0.1	0.305	2.13	2.54	11.1



Acid & Alkaline
Resistant



Fire Retardant
NF C32-070-2.2(C1)
IEC60332-3-24/EN50265-2-4



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



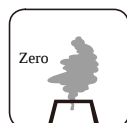
Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-902



Low Toxicity



Oil Resistant



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