



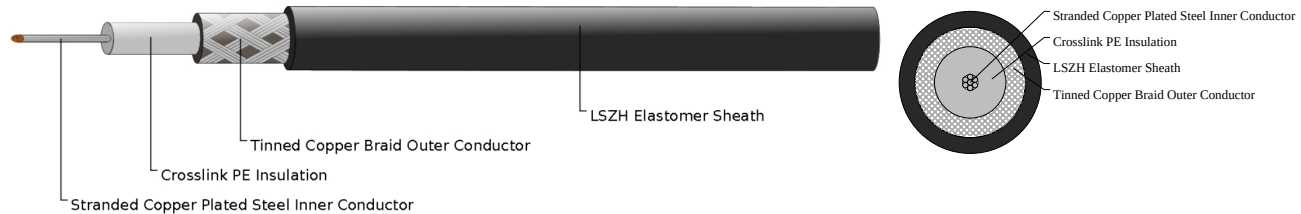
Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com

marketing@caledonian-cables.com

FRA 3002 SW4



APPLICATIONS

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

STANDARDS

DIN 5510-2

CABLE CONSTRUCTION

Inner conductor: Stranded copper plated steel.

Insulation: Crosslink PE (PEX).

Outer conductor: Tinned copper braid.

Sheath: LSZH Elastomer.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 25mm (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: 236 MΩ/km

Attenuation:

@10MHz: 6 dB/100m

@50MHz: 14 dB/100m

@100MHz: 20 dB/100m

@150MHz: 25 dB/100m

@200MHz: 29 dB/100m

@300MHz: 36 dB/100m

@400MHz: 42 dB/100m

@450MHz: 45 dB/100m

@500MHz: 47 dB/100m

@600MHz: 52 dB/100m

@800MHz: 62 dB/100m



Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com

marketing@caledonian-cables.com

@850MHz:64 dB/100m

@900MHz:66 dB/100m

@950MHz:68 dB/100m

@1000MHz:70 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
7/0.14	0.42	2.9	3.7	21



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



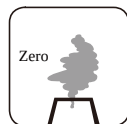
Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-982



Low Toxicity



Oil Resistant



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