



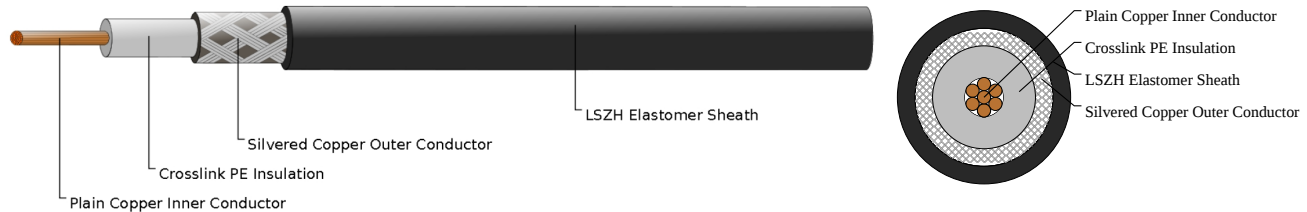
Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com

marketing@caledonian-cables.com

FRA 213 URM SW4



APPLICATIONS

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

STANDARDS

DIN 5510-2

CABLE CONSTRUCTION

Inner conductor: Plain copper.

Insulation: Crosslink PE (PEX).

Outer conductor: Silver plated copper braid.

Sheath: LSZH Elastomer.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 50mm (static)

Temperature Range: -40°C ~ +105°C

Electrical Properties

Electrical Characteristics at 20°C:

Impedance: 50 ± 2 Ω

Nominal Capacitance: 101 pF/m

Minimum Insulation Resistance: 100000 MΩ.km

Inner Conductor Resistance: 5.74 MΩ/km

Outer Conductor Resistance: 3.7 MΩ/km

Attenuation:

@10MHz: 2 dB/100m

@50MHz: 4 dB/100m

@100MHz: 6 dB/100m

@150MHz: 8 dB/100m

@200MHz: 9 dB/100m

@300MHz: 12 dB/100m

@400MHz: 14 dB/100m

@450MHz: 15 dB/100m

@500MHz: 16 dB/100m

@600MHz: 18 dB/100m



Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com

marketing@caledonian-cables.com

@800MHz:22 dB/100m

@850MHz:23 dB/100m

@900MHz:24 dB/100m

@950MHz:25 dB/100m

@1000MHz:26 dB/100m

@1800MHz:40 dB/100m

@1900MHz:41 dB/100m

@2000MHz:43 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
7/0.75	2.25	8.15	10.3	161



Acid & Alkaline
Resistant



Fire Retardant
NF C32-073-2-2(C1)
IEC60332-3-24/EN50266-2-4



Flame Retardant
NF C32-073-2-1(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



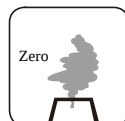
Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-982



Low Toxicity



Oil Resistant



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