

Caledonian

Coaxial Cables For Railway Application

www.caledonian-cables.com marketing@caledonian-cables.com

FRA 400 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.

Insulation: Crosslink Foam PE (SPEX).

Outer conductor (shield 1): Silver plated copper. Outer conductor (shield 2): Silver plated copper.

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:50+/-2 Ω

Nominal Capacitance:94.5 pF/m

Minimum Insulation Resistance:100000 M Ω .km Inner Conductor Resistance:29.45 M Ω /km Outer Conductor Resistance:7.6 M Ω /km

Attenuation:

@10MHz:5 dB/100m

@50MHz:11 dB/100m

@100MHz:16 dB/100m

@150MHz:20 dB/100m

@200MHz:23 dB/100m

@300MHz:29 dB/100m

@400MHz:34 dB/100m

@450MHz:36 dB/100m

@500MHz:38 dB/100m



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@600MHz:42 dB/100m

@800MHz:50 dB/100m

@850MHz:51 dB/100m

@900MHz:53 dB/100m

@950MHz:55 dB/100m

@1000MHz:56 dB/100m

@1800MHz:79 dB/100m

@1900MHz:82 dB/100m

@2000MHz:84 dB/100m

@2400MHz:94 dB/100m

@3000MHz:107 dB/100m

@4000MHz:128 dB/100m

@5000MHz:147 dB/100m

@6000MHz:165 dB/100m

Velocity of propagation:70.7%

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
19/0.2	1	4.24	5	60









Highly Flexible



Impact Resistant







Low Toxcity



Oil Resistant

