



Caledonian

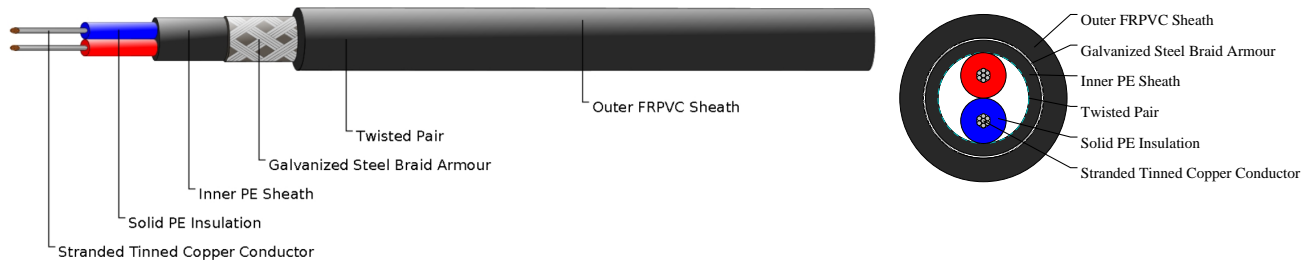
Railway Cables

www.caledonian-cables.com

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SPFB Speed Control System Cables

RT/SPFB-2Y2Y(SWB)2Y-2C0.5S



APPLICATIONS

The cables are used for the train speed control system (French system KVB). The cables are laid along railway lines and connect the speed sensors (located between the rails) to the encoder located inside the trackside equipment shelter.

STANDARDS

SNCF CT 446

CABLE CONSTRUCTION

Conductors: Class 2 stranded tinned copper.

Insulation: Solid polyethylene.

Cabling Element: Twisted pair.

Inner Sheath: Low density polyethylene.

Armour: Galvanized steel braid armour.

Outer Sheath: Flame Retardant PVC.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 8xOD (static); 16xOD (dynamic)

Temperature Range: -30°C to +70°C (during operation); -20°C to +50°C (during installation)

Electrical Properties

Electrical Characteristics at 20°C:

Nominal Conductor Diameter: 0.8 mm

Nominal Conductor Cross Section: 0.5 mm²

Maximum Conductor Resistance (DC): 36 Ω/km

Characteristic Impedance @100KHz: 120 Ω

Maximum Attenuation @50KHz: 5 dB/km

Operating Voltage: 500 V

DIMENSION AND PARAMETERS



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No. of Cores × Cross- sectional Area	No./Nominal Diameter of Strands	Insulation Thickness (min.)	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
No. × mm ²	no./mm	mm	mm	mm	mm	kg/km
2x0.5	7/0.32	0.55	1	1.5	9.1	97



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



Flexible



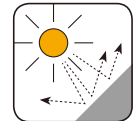
Fuel Oil Resistant



Laid In Ducts



Mineral Oil Resistant



Ozone Resistant