



Caledonian

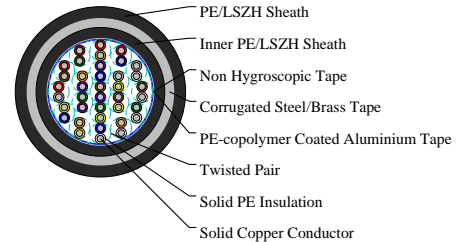
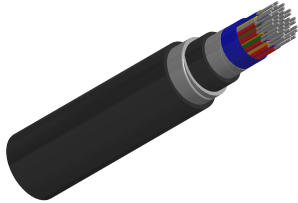
Railway Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

RT/F3 S & B type Axle Counter Cable

RS/RT/F3-S-2Y(L)2YB2Y-19P0.9



APPLICATIONS

The cables are designed for transmission of signals up to 90 kHz in axle counter train detection systems.

STANDARDS

RT/E/PS/00031

VOLTAGE RATING

750V DC/450V AC

CABLE CONSTRUCTION

Conductors: Tinned solid copper wire.

Insulation: Solid polyethylene.

Cabling Element: Two insulated conductors are twisted together to form a pair.

Stranding: Pairs are helically stranded in concentric layers.

Filling: Cable core interstices are filled with a low-permittivity compound. Unfilled cables option can be offered upon request.

Core wrapping: Plastic tape(s) with overlapping

Moisture barrier: One laminated sheath made of aluminium tape coated with PE-Copolymer on at least one side is applied with longitudinally overlap.

Inner Sheath: Polyethylene or LSZH fire retardant compound.

Mechanical Protection: One corrugated steel tape or brass tape is longitudinally applied with overlap. Unarmoured cables option can be offered upon request.

Outer Sheath: Polyethylene or LSZH fire retardant compound. Ruggedised PE sheath compound can be offered upon request.

COLOUR CODE

1P: WHITE+BLUE

2P: WHITE+ORANGE

3P: WHITE+GREEN

4P: WHITE+BROWN

5P: WHITE+GREY

6P: RED+BLUE



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7P:RED+ORANGE

8P:RED+GREEN

9P:RED+BROWN

10P:RED+GREY

11P:YELLOW+BLUE

12P:YELLOW+ORANGE

13P:YELLOW+GREEN

14P:YELLOW+BROWN

15P:YELLOW+GREY

16P:VIOLET+BLUE

17P:VIOLET+ORANGE

18P:VIOLET+GREEN

19P:VIOLET+BROWN

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 7.5xOD (unarmoured); 10xOD (armoured)

Temperature Range: -30°C to +60°C (during operation); -10°C to +60°C (during installation)

Electrical Properties

Electrical Characteristics at 20°C:

Nominal Conductor Diameter:0.9 mm

Nominal Conductor Cross Section:0.63 mm²

Maximum Conductor Resistance:30 Ω/km

Minimum Insulation Resistance @500 V DC (1min):5000 MΩ.km

Nominal Conductor Capacitance @800Hz/1000Hz (AC):42+3 nF/km

Dielectric Strength, conductor to screen (DC voltage 2mins):3000V

Maximum Average Attenuation:

@1.0KHz:0.73 dB/km

@2.4KHz:1.1 dB/km

@40KHz:2.88 dB/km

@90KHz:3.7 dB/km

@1.024MHz:11.2 dB/km

Minimum Average Near-end Crosstalk:

@1.0KHz:60 dB/km

@2.4KHz:60 dB/km

@40KHz:50 dB/km

@90KHz:50 dB/km

@1.024MHz:35 dB/km

DIMENSION AND PARAMETERS



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No. of Pairs	Conductor Diameter	Nominal Diameter over Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
	mm	mm	mm	mm	mm	kg/km
19	0.9	1.8	2.2	2.4	40	1312



Buried in Ground



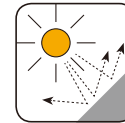
Impact Resistant



Laid In Ducts



Rated voltage



UV Resistant



Water Resistant