

# Caledonian

# Railway Cables www.caledonian-cables.com

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# A-2Y2YB2Y S(H145)

1.8mm conductor, 2.7mm Insulated wire RS107y-2Y2YB2Y-20C1.8-S(H145)





# **APPLICATIONS**

The cables are designed in railways signalling networks, and are suitable for installation in ducts or laying directly into the ground.

#### **STANDARDS**

Dlk 1.013.107v Dlk 1.013.110v

# **VOLTAGE RATING**

600V DC/420V AC

#### CABLE CONSTRUCTION

Conductors: Solid annealed copper.

Insulation: Solid polyethylene.

Stranding: Single conductors are helically stranded in concentric layers.

Cables from 14 conductors on have two extra conductors of 0.5mm with perforated insulation (surveillance

conductors).

Core Colour:Natural, with one blue directional core in each layer.

Core Wrapping: Plastic tape(s) with overlapping.

Inner Sheath: Low density polyethylene.

Armouring: One layer of galvanized steel tape (0.2-0.3mm) or two layers of galvanized steel tapes (0.1mm).

Outer Sheath: Low density polyethylene.

# PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 10xOD

Temperature Range: -40°C to +60°C (during operation); -10°C +60°C (during installation)

# **Electrical Properties**

Electrical Characteristics at 20°C: Nominal Conductor Diameter: 1.8 mm Maximum Conductor Resistance:7.2 Ω/km



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Minimum Insulation Resistance @500 V DC (1min) :10000  $M\Omega$ .km Maximum Mutual Capacitance @800Hz (AC): 145/95\* nF/km

Dielectric Strength, conductor to conductor (DC voltage 1min): 3535 V

Surveillance Conductors:

Loop resistance, maximum: 190Ω/km

Insulation resistance:

- dry cable core, minimum:1000  $M\Omega$ .km - wet cable core, maximum:30 MΩ.km Operating Voltage AC/DC:420/600 V

Test Voltage 50 Hz 1 min: Core to Core:2500 Veff Core to Screen:2500 Veff

# **DIMENSION AND PARAMETERS**

	No. of Conductor	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
ĺ	20	1.8	2.7	1.3	1.2	24	800



Buried in Ground



Laid In Ducts



Rated voltage



UV Resistant



Water Resistant

