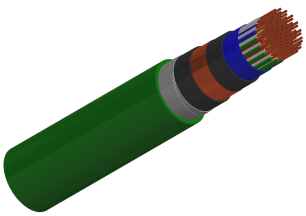
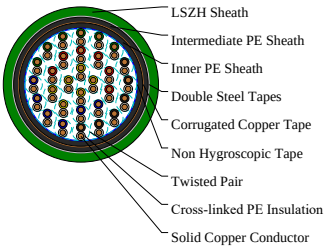
Caledonian
Railway Cables
www.caledonian-cables.com marketing@caledonian-cables.com

SXCAG Signalling Cables

RS/SXCAG-2Y2Y(K)2YBH-30P1.5S





APPLICATIONS

The cables are designed for connection between switching centers and equipment shelters along the trackside. The cables are used as main signalling cables specially designed to give good induction protection (R.F=0.24 at inductive voltage 170 V/km) and are suitable for installation in intercity railways electrified at 25KV ac.

STANDARDS

SXCAG Specification
Fire performance: EN 50266-2-4 C

CABLE CONSTRUCTION

Conductors: Class 1 solid bare copper conductor.
Insulation: Coloured cross-linked PE Insulation.
Cabling Element: Each two conductors are twisted together to form a pair.
Stranding: Pairs are helically stranded in layers to form the cable core.
Core Wrapping: Plastic tape(s) with overlapping.
Inner Sheath: PE sheath.
Electrostatic Shield: One corrugated copper tape.
Intermediate Sheath: PE sheath.
Electromagnetic Shield: Two helically applied steel tapes.
Outer Sheath: Green halogen free sheath.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 10xOD
Temperature Range: -25℃ to +90℃ (during operation); -10℃ to +90℃ (during installation)

Electrical Properties

Electrical Characteristics at 20°C:
Nominal Conductor Diameter:1.38 mm
Nominal Cross Section Area:1.5 mm sq
Maximum Conductor Resistance (DC):12.3 Ω/km
Minimum Insulation Resistance @500 V DC (3min) :10000 MΩ.km

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Maximum Mutual Capacitance @1000Hz (AC): 60 nF/km
Maximum Reduction Factor @170V/km:0.24
Operating Voltage:1000V

DIMENSION AND PARAMETERS

No. of Pairs	Nominal Cross-sectional Area	Conductor Diameter	Nominal Diameter over Insulation	Nominal Inner Sheath Thickness	Nominal Interm. Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
	mm²	mm	mm	mm	mm	mm	mm	kg/km
30	1.5	1.38	2.38	1.2	1.1	2.2	42.8	2625

Anti Induction


Buried in Ground


Laid In Ducts