



Caledonian

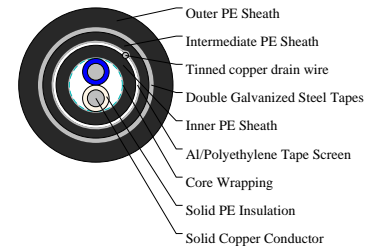
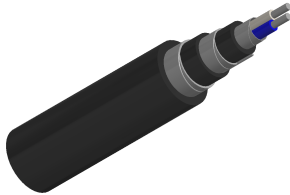
Railway Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

EUROBALISE BGA

RS/BGA-2Y2Y(L)2YB2Y-1P1.6



APPLICATIONS

The cables are used as balise cables for ERTMS (European Rail Traffic Management System) railway networks. The cables are armoured and can provide low reduction factor.

STANDARDS

CEI 20-11 CEI 20-14 CEI 20-29
CEI 20-34 CEI 46-4 CEI 103-10

VOLTAGE RATING

600V DC/420V AC

CABLE CONSTRUCTION

Conductors: Solid annealed copper, 1.6 mm nominal diameter.

Insulation: Solid polyethylene.

Stranding: Conductors will be stranded with dielectric fillers in order to get a circular core shape.

Core wrapping: Plastic tape (s) with overlapping.

Inner sheath: Low density polyethylene.

Screen: Aluminium/polyethylene tape longitudinally applied and overlapped.

Drain Wire: Tinned copper drain wire

Intermediate sheath: Low density polyethylene.

Armour: Two galvanized steel tapes.

Outer sheath: Low density polyethylene.

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: 1.6 mm

Maximum Conductor Resistance (DC): 21.5 Ω/km

Mutual Capacitance: 8.21 Ω/km



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Nominal Characteristic Impedance @8.9 kHz:130 Ω

Nominal Characteristic Impedance @560 kHz:110 Ω

Maximum Attenuation @560 kHz:3.8 dB/km

Insulation Resistance:10000 MΩ.km

Minimum Dielectric Strength core to screen (DC):1000 V

Minimum Dielectric Strength core to core (DC):3000 V

Reduction Factor @100V/km:0.6

DIMENSION AND PARAMETERS

No. of Pairs	Conductor Diameter	Nominal Diameter over Insulation	Nominal Inner Sheath Thickness	Nominal Interm. Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
	mm	mm	mm	mm	mm	mm	kg/km
1	1.6	3.4	1	0.8	1.6	16	334



Anti Induction



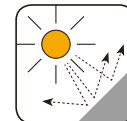
Laid In Ducts



Mineral Oil Resistant



Rated voltage



UV Resistant



Water Resistant



Zero Halogen
IEC 60754-1/EN 50267-2-1
NF C20-454