



# Caledonian

Telephone Cables

www.caledonian-cables.com

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## SPECIAL TELEPHONE CABLES

PE Insulated Air Core/Jelly Filled Star Quad Railway Signalling Cables to VDE 0816/DIN 57816

Type 4: 0.9mm Conductor, 1.8mm Insulated Wire, Copper Wire Screened, RF 0.25 Steel tape thickness 0.8mm

TP816AJ-2YDYbY-S Lg (29/2B0.8)-20Q09



## APPLICATIONS

The cables are designed to give good protection to the core against inductive interference. The cables are used for outdoor signaling equipment.

## STANDARDS

VDE 0816/DIN 57816

## CABLE CONSTRUCTION

Conductors: Solid annealed bare copper as per ASTM B-3/IEC 60228 Class 1.

Insulation: Solid polyethylene as per ASTM D 1248/IEC 60708.

Cabling Element: Four insulated conductors are twisted together to form a quad.

Cable Core Assembly: The cores are cabled together in concentric layers to form the cable core. Units are identified by colour coded binders.

Core Wrapping: One or more non-hygroscopic polyester tapes are helically or longitudinally laid with an overlap.

Electrostatic Screen: Copper wire braid with wire diameter of 0.12mm.

Bedding: PE or LSZH.

Electrostatic Armour: Two steel tapes of 0.8mm are helically applied with gap. The outer tape will cover the gap left by the inner one.

Ripcord: Nylon ripcord may be placed parallel to the cores to facilitate sheath removal.

Sheath: PE/PVC or LSZH.

## PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation (fixed state): -30°C– +70°C

Temperature range during installation (mobile state): -20°C – +50°C

Minimum bending radius: 15 x Overall Diameter

## DIMENSION AND PARAMETERS



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Caledonian Cable Code	No. of Quad	Conductor Size	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
		mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
TP816AJ -2YDYbY -S Lg (29/2B0.8) -20Q09	20	0.636	0.9	0.45	1.8	1.8	2	40.5	2840