



# Caledonian

Telephone Cables

www.caledonian-cables.com

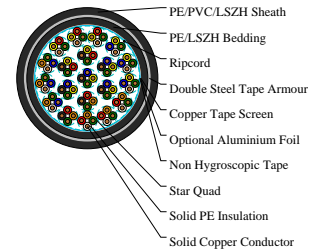
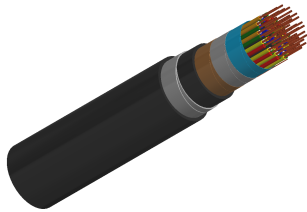
marketing@caledonian-cables.com

## SPECIAL TELEPHONE CABLES

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

Type 7: 1.4mm Conductor, 2.7mm Insulated Wire, Copper Tape Screened, RF 0.45 Steel tape thickness 0.8mm

TP816AJ-2Y(St)YbY-S Lg (fK) (2B0.8)-20Q14



## 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 tape with 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

Caledonian Cable Code	No. of Quad	Conductor Size	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter	Nominal Inner	Nominal Outer	Nom. Overall Diameter	Approx. Weight
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					over Insulation	Sheath Thickness	Sheath Thickness		
		mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
TP816AJ-2Y(St) S Lg(fK) (2B0.8)-20Q1	20	1.539	1.4	0.65	2.7	2	2.2	49	4085