SPECIAL TELEPHONE CABLES
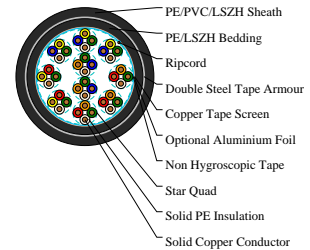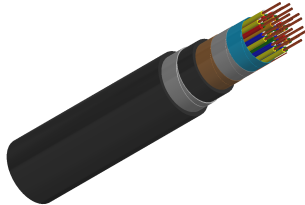
PE Insulated Air Core/Jelly Filled Star Quad Railway Signalling Cables to VDE 0816/DIN 57816
Type 1: 0.9mm Conductor, 1.8mm Insulated Wire, Copper Tape Screened, RF 0.6 Steel tape thickness 0.5mm
TP816AJ-2Y(St)YbY-S Lg (fK)(2B0.5)-10Q09

PE/PVC/LSZH Sheath
PE/LSZH Bedding
Ripcord
Double Steel Tape Armour
Copper Tape Screen
Optional Aluminium Foil
Non Hygroscopic Tape
Star Quad
Solid PE Insulation
Solid Copper Conductor

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 0.5mm 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

		mm²	mm	mm	over Insulation mm	Sheath Thickness mm	Sheath Thickness mm	mm	kg/km
TP816AJ -2Y(St)Yb -S Lg(fK) (2B0.5)-10Q0	10	0.636	0.9	0.45	1.8	1.8	2	32.5	1550