



Caledonian

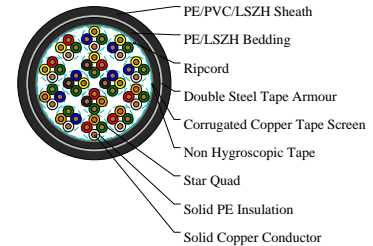
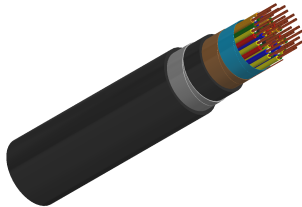
Telephone Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

SPECIAL TELEPHONE CABLES

PE Insulated Air Core/Jelly Filled Star Quad Railway Signalling Cables (RF 0.3)
TP365-2Y(CTS)2Y(DSTA)Y14Q14-RF03



APPLICATIONS

The cables are designed to give good protection to the core against inductive interference (RF=0.3). The cables are used for outdoor signaling equipment.

STANDARDS

RENFE E.T. 03.365.051.6

CABLE CONSTRUCTION

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

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 Filling (optional): The cable core interstices can be filled with petroleum jelly to avoid longitudinal water penetration inside the cable.

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

Electrostatic Screen: Corrugated copper tape of 0.12mm is applied longitudinally with overlap.

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.

Sheath: PE, PVC or LSZH.

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

COLOUR CODE

Colour of conductors:

Centre and even layers:

First: ORANGE GREEN RED WHITE

Even: YELLOW GREEN BLUE WHITE

Odd: YELLOW GREEN RED WHITE

Last: ORANGE GREEN BLUE WHITE



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Odd Layers:

First: ORANGE GREEN RED BLACK

Even: YELLOW GREEN BLUE BLACK

Odd: YELLOW GREEN RED BLACK

Last: ORANGE GREEN BLUE BLACK

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 over Insulation | Nominal Inner Sheath Thickness | Nominal Outer Sheath Thickness | Nom. Overall Diameter | Approx. Weight |
|--|-------------|-----------------|--------------------|------------------------------|----------------------------------|--------------------------------|--------------------------------|-----------------------|----------------|
| | | mm ² | mm | mm | mm | mm | mm | mm | kg/km |
| TP365-2Y(CTS) 2Y(DSTA)Y 14Q14-RF03 | 14 | 1.539 | 1.4 | 0.65 | 2.7 | 1.7 | 1.8 | 40.5 | 3150 |