



Caledonian

Telephone Cables

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SPECIAL TELEPHONE CABLES

PE Insulated Air Core/Jelly Filled Star Quad Railway Signalling Cables (RF 0.1)

TP365-2Y(CTS)2Y(DSTA)Y1Q09-RF01



APPLICATIONS

The cables are designed to give good protection to the core against inductive interference (RF=0.1). 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: One layer of copper wires 0.12mm is applied helically.

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



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Odd: YELLOW GREEN RED WHITE

Last: ORANGE GREEN BLUE WHITE

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 1Q09- RF01	1	0.636	0.9	0.45	1.8	1.5	1.6	24.5	1300