



# Caledonian

Telephone Cables

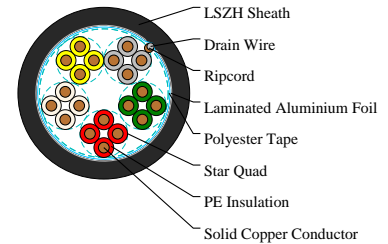
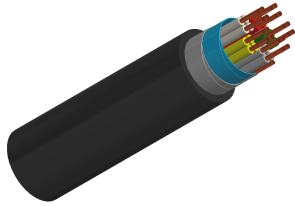
www.caledonian-cables.com

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## INDOOR TELEPHONE CABLES

PE Insulated & PVC/LSZH Sheathed Installation Cables to DIN VDE 0816/0815

TP815J-2Y(ST)H-StIII-Bd-10P06



## APPLICATIONS

The installation cables are used for telephone, signaling and data transmission for permanent surface or concealed installation in dry and damp rooms and for outdoor applications.

## STANDARDS

DIN VDE 0816/0815

## CABLE CONSTRUCTION

Conductors: Solid annealed bare copper sized 0.6mm as per VDE 0295/IEC 60228 class 1.

Insulation: Solid polyethylene 2Y12 type as per VDE 0207-2.

Cabling Element: Star Quads.

Cable Core Assembly: Group of four wires is stranded into a star quad, the quads are assembled into units and the units form the core.

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

Screen: Laminated aluminium foil is fully enclosing the core with an overlap.

Drain Wire: Tinned drain wire may be applied longitudinally to provide continuity of the screen.

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

Sheath: LSZH to DIN VDE 0207 part 5.

## COLOUR CODE

Quads:

The single core is identified by black ring markings:

Side Circuit 1: a-wire without marking

b-wire 1 mark distance 17mm

Side Circuit 2: a-wire 2 marks distance 34mm

b-wire 2 marks distance 17mm

Subunits:

Basic colours of the wire insulation of the 5 star quads of a basic unit:

Quad 1 Red



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Quad 2 Green

Quad 3 Grey

Quad 4 Yellow

Quad 5 White

The tracer units are coded with a red helix, all other units by a white binder.

## 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: 10 x Overall Diameter

## DIMENSION AND PARAMETERS

| Caledonian Cable Code                     | No. of Pairs | Conductor Size  | Conductor Diameter | Nominal Insulation Thickness | Nominal Diameter over Insulation | Nominal Sheath Thickness | Nom. Overall Diameter | Approx. Weight |
|---|--------------|-----------------|--------------------|------------------------------|----------------------------------|--------------------------|-----------------------|----------------|
|   |              | mm <sup>2</sup> | mm                 | mm                           | mm                               | mm                       | mm                    | kg/km          |
| TP815J<br>-2Y(St)H<br>-StIII-<br>Bd-10P06 | 10           | 0.283           | 0.6                | 0.25                         | 1.1                              | 1                        | 9.3                   | 122            |