



Caledonian

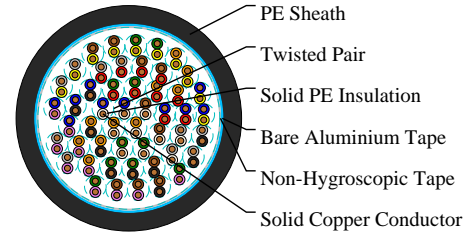
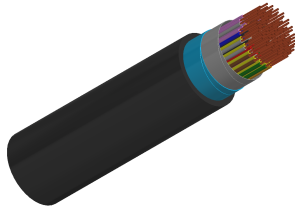
Telephone Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

OUTDOOR TELEPHONE CABLES

Solid PE Insulated & AP Sheathed (ALPETH) Air Core Cables to ICEA S-85-625
TP625-2Y(A)2Y-50P04



APPLICATIONS

The cables are designed for use as subscriber distribution cables and as connection between central offices. The cables are suitable for installation in ducts, direct burial in the ground and also for aerial installation with integral suspension strand. An armoured option is offered for direct burial installations. A figure-8 self support option is offered for aerial installation.

STANDARDS

ANSI/ICEA S-85-625

CABLE CONSTRUCTION

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

Insulation: Solid medium or high density polyethylene as per ASTM D 1248/IEC 60708.

Twisted Pairs: Insulated conductors are twisted into pairs with varying lay length to minimize crosstalk.

Cabling Element: Twisted Pairs.

Cable Core Assembly: Cables of 25 pairs or less are assembled into cylindrical core. Cables larger than 25 pairs are assembled into units, which are then used to form the 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. These tapes furnish thermal, mechanical as well as high dielectric protection between shielding and individual conductors.

Moisture Barrier: A layer of bare aluminium tape (0.2mm/8mil) is applied longitudinally with overlap over the cable core to provide 100% electrical shielding coverage and ensures a barrier against water vapor.

Sheath: Black low density polyethylene as per ASTM D 1248/IEC 60708, being able to withstand exposure to sunlight, temperature variations, ground chemicals and other environmental contaminants.

Ripcord: Ripcord may be provided for slitting the sheath longitudinally to facilitate its removal.

Spare Pairs (optional): Spare pairs may be incorporated for large pair cables.

Continuity Wire (optional): One tinned copper drain wire may be longitudinally laid to ensure electrical continuity of the screen.

COLOUR CODE

Standard colour code is per ICEA S-85-625 given in Colour Code Chart



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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 (unarmoured cables); 15 x Overall Diameter (armoured cables)

DIMENSION AND PARAMETERS

| Caledonian Cable Code | No. of Pairs | AWG Size | Conductor Diameter | Nominal Insulation Thickness | Nominal Diameter over Insulation | Nominal Sheath Thickness | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Overall Diameter | Cable Weight | Cable Weight |
|-----------------------|--------------|----------|--------------------|------------------------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|--------------|
| | | | mm | mm | mm | in | mm | in | mm | Lbs./Kft | kg/km |
| TP625-2Y(A)2Y-50P04 | 50 | 26 | 0.4 | 0.175 | 0.75 | 0.059 | 1.5 | 0.571 | 14.5 | 148 | 220 |