



# Caledonian

Telephone Cables

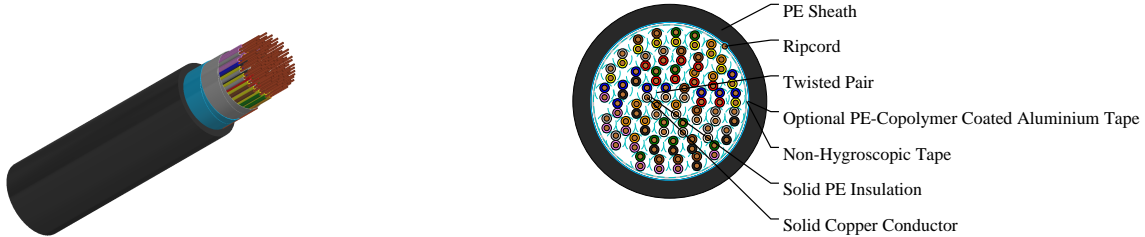
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## OUTDOOR TELEPHONE CABLES

Solid PE Insulated & PE Sheathed Air Core Cables to CW 1171

TP1171-2Y(L)2Y-50P063



## APPLICATIONS

The cables are designed for use as subscriber distribution cables and as connection between central offices in local access networks. The cables are unfilled and capable of being pressurized when installed. The cables are suitable for installation in ducts.

## STANDARDS

CW 1171 (For unscreened cable)

CW 1179 (For screened cable)

CW 1252 (For self-supporting cable)

## CABLE CONSTRUCTION

**Conductors:** Solid annealed bare copper, as per BS 6360/IEC 60228 Class 1.

**Insulation:** Solid polyethylene as per BS EN 50290-2-23/BS 6234/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 with 100 pairs or less are composed of 25-pair units or 12/13-pair units; cables with over 100 pairs are composed of 25, 50 or 100-pair units. Standard construction is per CW 1171 given in Cable Make Up Chart.

**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 (optional):** A layer of aluminium tape (0.15mm) coated with PE-copolymer on one or both sides is applied longitudinally with overlap over the cable core to provide shielding coverage and ensure a barrier against water vapor.

**Sheath:** Black low density polyethylene as per BS 6234/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 200 and larger pair cables.

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



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## COLOUR CODE

Standard colour code is per CW 1171 Colour Code Chart

## 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	Conductor Size	AWG Size	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Sheath Thickness (min.)	Overall Diameter (max.)	Approx. Weight
		mm <sup>2</sup>		mm	mm	mm	mm	mm	kg/km
TP1171 -2Y(L)2Y -50P063	50	0.312	22	0.63	0.26	1.15	1.7	22	416