



# Caledonian

Telephone Cables

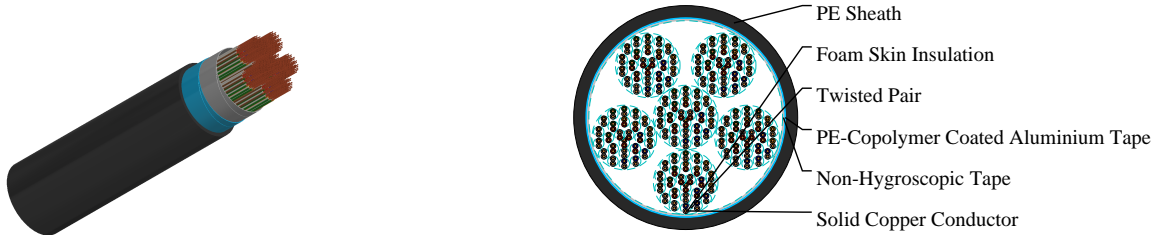
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## OUTDOOR TELEPHONE CABLES

Foam Skin Insulated and LAP Sheathed Jelly Filled Cable to IEC 60708

TP708-02YSF(L)2Y-300P04



## APPLICATIONS

The cables are designed for use in access or trunk networks, from telephone exchange to subscriber area.

The cables are suitable for installation in ducts, direct burial in the ground and also for aerial installation with integral suspension strand. Jelly filled option is for subscriber's cables installed underground or along the edge of pavement. An armoured option is offered for direct burial installations. A figure-8 self support option is offered for aerial installation.

## STANDARDS

IEC 60708

## CABLE CONSTRUCTION

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

**Insulation:** Foam Skin which is a composite polyethylene insulation made of an inner cellular layer and an outer solid skin, as per IEC 60708/BS EN 50290-2-23/BS 6234/ ASTM D 1248/NFC 32-060/VDE 0207.

**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 10-pair sub-units; cables with over 100 pairs are composed of 50 or 100-pair units. Any extra pairs form a separate unit. Units are identified by colour coded binders. Standard construction is per IEC 60708 given in Cable Make Up Diagram.

**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 aluminium tape (0.15mm) coated with PE-copolymer on one or both sides is applied longitudinally with overlap over the cable core to provide 100% electrical shielding coverage and ensure a barrier against water vapor. In cables with more than 200 pairs, the aluminum tape may be corrugated for improved cable flexibility.

**Filling:** The cable core interstices are filled with petroleum jelly to avoid longitudinal water penetration within the cable. The water resistant filling compound is applied to the air space between non-hygroscopic tape and shield, shield and sheath within the cable core.



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Sheath: Black low density polyethylene as per BS 6234/IEC 60708/ASTM D 1248, 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.

## COLOUR CODE

Standard colour code is per IEC 60708 given in 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	Nominal Insulation Thickness	Nominal Diameter over Insulation	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
		mm <sup>2</sup>		mm	mm	mm	mm	kg/km
TP708 -02YSF (L)2Y -300P04	300	0.126	26	0.175	0.75	1.8	29	1195