



# Caledonian

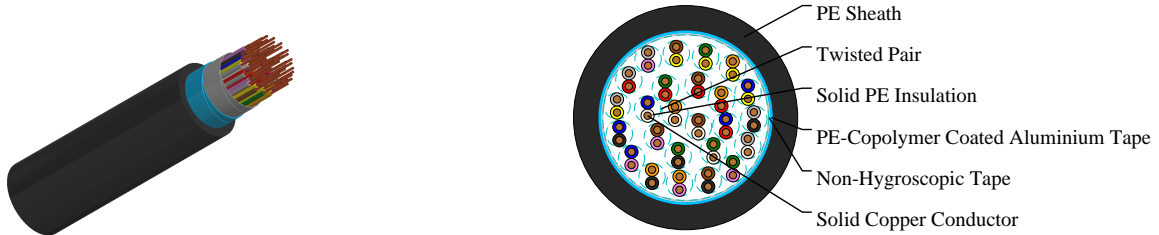
Telephone Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

## OUTDOOR TELEPHONE CABLES

Solid PE Insulated & LAP Sheathed Jelly Filled Cables to RUS (REA) PE-39 (ICEA S-84-608)  
TP39-2YF(L)2Y-25P05



## APPLICATIONS

The cables are designed for use as subscriber distribution cables and as connection between central offices. The recommended installation is in ducts.

## STANDARDS

RUS (REA) PE-39 (RUS 7 CFR 1755.390)

ICEA S-84-608

## 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 corrugated PE copolymer coated aluminium tape (0.2mm/8mil) is applied longitudinally with overlap over the cable core to provide 100% electrical shielding coverage and ensure a barrier against water vapor.

**Sheath:** Black low or medium 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 provided 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-84-608 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

Caledonia 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
TP39 -2YF (L)2Y -25P05	25	24	0.5	0.2	0.9	0.067	1.7	0.642	16.3	192	285