SPECIAL TELEPHONE CABLES

PE Insulated ISDN Primary Access Air Core Cables Multipair 120Ω Indoor Cable
TP101-2Y(St)Y100P05-ISDN-P

- PVC Sheath
- Drain Wire
- Ripcord
- Aluminium Polyster Tape
- Polyester Tape
- Twisted Pair
- Solid PE Insulation
- Solid Copper Conductor
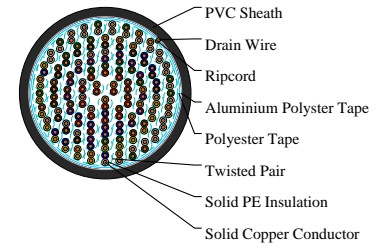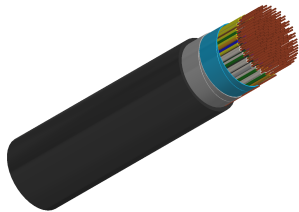
APPLICATIONS

The cables are designed for digital communications where 120Ω impedance are required during copper interconnection. They are used as primary access for ISDN services inside buildings between network termination equipment and subscriber termination equipment (G703 E1/T1 systems 2.048 or 1.544 Mbps).

STANDARDS

ER.f5.101

CABLE CONSTRUCTION

Conductors: Solid annealed bare copper as per ASTM B-3/class 1 of IEC 60228.
Insulation: Solid polyethylene as per ASTM D 1248/IEC 60708.
Twisted Pairs: Insulated conductors are twisted into pairs with varying lays to minimize crosstalk.
Cable Core Assembly: The pairs are cabled together in layers of 12, 13 & 25 pair unit to form the cable 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.
Screen: Aluminium/Polyester tape is applied longitudinally with an overlap.
Drain Wire: Solid tinned copper 0.5mm drain wire may be laid longitudinally under the screen.
Ripcord: Nylon ripcord may be placed parallel to the cores to facilitate sheath removal.
Sheath: PVC compound.

COLOUR CODE

Standard colour code is per BT CW 110J 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

DIMENSION AND PARAMETERS

Caledonian Cable Code	No. of Pairs	Conductor Size	AWG Size	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
		mm²		mm	mm	mm	mm	mm	kg/km
TP101 -2Y(St)Y 100P05- ISDN-P	100	0.196	24	0.5	0.35	1.2	1.2	26.5	720