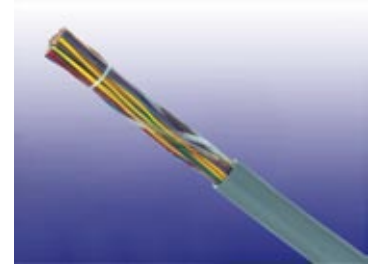


PE Insulated Category 3 UTP/FTP Cables

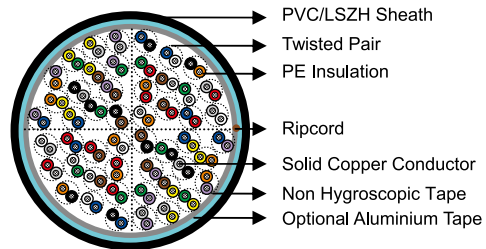
APPLICATION

The cables are designed for medium frequency data or telephone systems, suitable for indoor or outdoor insulations.



STANDARDS

- TIA/EIA-568B
- IEC 61156-4
- UL-444
- ANSI/ICEA S-80-576



CONSTRUCTION

- **Conductors:** Solid annealed bare copper sized 0.5mm (24 AWG) as per ASTM-B3/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 lay length to minimize crosstalk.
- **Cable Core Assembly:** The 50-pair cable is composed of 4 units having 12 or 13 pairs each. All other cables are composed of 25-pair units. Units are identified by colour coded binders.
- **Core Wrapping:** Non-hygroscopic dielectric tape fully enclosing the core with an overlap.
- **Screen (optional):** An optional Aluminium/Polyester tape placed in contact with solid copper drain wire may be provided as an option.
- **Sheath:** PVC or LSZH.
- **Ripcord:** Nylon ripcord may be placed parallel to the cores to facilitate sheath removal.

ELECTRICAL PROPERTIES

Nominal Conductor Diameter	mm	0.5
Maximum DC Resistance	$\Omega/100m$	9.38
Maximum Resistance Unbalance	%	5
Maximum Capacitance Unbalance pair-to-ground @1KHz	pF/100m	330
Minimum Worst Pair Structural Return Loss (SRL):		
Up to 10 MHz	dB	12
Between 10 and 16 MHz	dB	10
Impedance @1-16 MHz	Ω	85 - 115
Maximum Attenuation at 20°C		
@64KHz	dB/100m	0.9
@256KHz	dB/100m	1.3



Caledonian

INDOOR/OUTDOOR TELEPHONE CABLES

www.caledonian-cables.co.uk www.addison-cables.com

(Continued from previous page)

@512KHz	dB/100m	1.8
@772KHz	dB/100m	2.2
@1MHz	dB/100m	2.6
@4MHz	dB/100m	5.6
@8MHz	dB/100m	8.5
@10MHz	dB/100m	9.7
@16MHz	dB/100m	13.1
Minimum Worst pair-to-pair NEXT Loss		
@772KHz	dB	43
@1MHz	dB	41
@4MHz	dB	32
@8MHz	dB	28
@10MHz	dB	26
@16MHz	dB	23
Minimum Relative Velocity of Propagation @10MHz	dB	0.585

MECHANICAL 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)

COLOUR CODE

Standard Colour Code is per TIA/EIA 568B or ICEA S-80-576 as given in Colour Code Chart.

DIMENSIONS AND WEIGHT

PE INSULATED CATEGORY 3 UTP CABLES

Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
0.5mm Conductor, 0.9mm Insulated Wire, UTP, PVC Sheathed, Indoor				
TP568-2YY-10P05-UTPC3	10	0.9	9.5	77
TP568-2YY-25P05-UTPC3	25	0.9	12.5	155
TP568-2YY-50P05-UTPC3	50	1.0	17.0	260
TP568-2YY-100P05-UTPC3	100	1.1	21.5	530
TP568-2YY-200P05-UTPC3	200	1.2	29.5	1100
TP568-2YY-300P05-UTPC3	300	1.3	33.5	1550
0.5mm Conductor, 0.9mm Insulated Wire, UTP, LSZH Sheathed, Indoor & Outdoor				
TP568-2YH-10P05-UTPC3	10	0.9	10.0	80
TP568-2YH-25P05-UTPC3	25	0.9	14.0	150

(Continued from previous page)

Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
TP568-2YH-50P05-UTPC3	50	1.1	16.5	280
TP568-2YH-100P05-UTPC3	100	1.4	21.5	530
TP568-2YH-200P05-UTPC3	200	1.7	30.0	900
TP568-2YH-300P05-UTPC3	300	1.7	36.0	1300
0.5mm Conductor, 0.9mm Insulated Wire, UTP, PE Sheathed, Outdoor				
TP568-2Y2Y-10P05-UTPC3	10	0.9	9.5	80
TP568-2Y2Y-25P05-UTPC3	25	0.9	13.0	150
TP568-2Y2Y-50P05-UTPC3	50	1.0	16.0	280
TP568-2Y2Y-100P05-UTPC3	100	1.1	21.5	550
TP568-2Y2Y-200P05-UTPC3	200	1.2	28.5	1050
TP568-2Y2Y-300P05-UTPC3	300	1.3	34.5	1550

PE INSULATED CATEGORY 3 FTP CABLES

Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
0.5mm Conductor, 0.9mm Insulated Wire, FTP, PVC Sheathed, Indoor				
TP568-2Y(St)Y-10P05-FTPC3	10	0.9	10.0	85
TP568-2Y(St)Y-25P05-FTPC3	25	0.9	13.5	170
TP568-2Y(St)Y-50P05-FTPC3	50	1.0	17.0	300
TP568-2Y(St)Y-100P05-FTPC3	100	1.1	22.0	570
TP568-2Y(St)Y-200P05-FTPC3	200	1.2	30.0	1120
TP568-2Y(St)Y-300P05-FTPC3	300	1.3	36.6	1630
0.5mm Conductor, 0.9mm Insulated Wire, FTP, LSZH Sheathed, Indoor& Outdoor				
TP568-2Y(St)H-25P05-FTPC3	25	0.9	14.0	170
TP568-2Y(St)H-50P05-FTPC3	50	1.0	17.5	300
TP568-2Y(St)H-100P05-FTPC3	100	1.2	23.0	580
TP568-2Y(St)H-200P05-FTPC3	200	1.6	32.0	1120
TP568-2Y(St)H-300P05-FTPC3	300	1.6	35.0	1320
0.5mm Conductor, 0.9mm Insulated Wire, FTP, PE Sheathed, Outdoor				
TP568-2Y(St)2Y-10P05-FTPC3	10	0.9	11.0	85
TP568-2Y(St)2Y-25P05-FTPC3	25	0.9	13.5	170
TP568-2Y(St)2Y-50P05-FTPC3	50	1.0	16.5	300
TP568-2Y(St)2Y-100P05-FTPC3	100	1.1	22.6	570
TP568-2Y(St)2Y-200P05-FTPC3	200	1.2	31.0	1070
TP568-2Y(St)2Y-300P05-FTPC3	300	1.3	35.5	1570