

## ADSL Connecting Cables

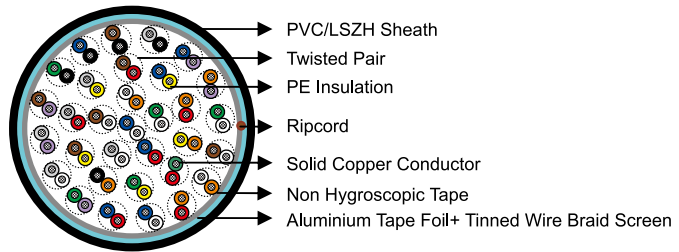
### APPLICATION

The cables are designed for ADSL transmission system. The cables are characterized by guaranteed data speeds up to 10MHz. The cables have a small cable diameter with an easily removable sheath.



### STANDARDS

- IEC 61156-1 Part 1
- ANSI/ICEA S-80-576



### CONSTRUCTION

- **Conductors:** Solid annealed bare copper sized 0.4mm as per ASTM B-3/IEC 60228 Class 1.
- **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 in concentric layer to form the cable core.
- **Core Wrapping:** One or more non-hygroscopic polyester tapes are helically or longitudinally laid with an overlap.
- **Screen:** An aluminium polyester foil is applied in close contact with tinned copper braid screen.
- **Sheath:** PVC or LSZH compound.
- **Ripcord:** Ripcord may be placed to facilitate sheath removal.

### ELECTRICAL PROPERTIES

Number of Pairs		24	32	64	72	96	128
Maximum Conductor Resistance @20°C	Ω/km	143	143	143	143	143	143
Minimum Insulation Resistance @500V DC	MΩ-km	1000	1000	1000	1000	1000	1000
Maximum Mutual Capacitance @800Hz	nF/km	80	80	80	80	80	80
Maximum Capacitance Unbalance pair-to-pair	pF/500m	250	250	250	250	250	250
Impedance	Ω	120	120	105	105	100	105
Maximum Average Attenuation @1MHz	dB/km	32	32	32	32	32	32
Maximum Average Attenuation @10MHz	dB/km	110	110	110	110	110	110
Minimum NEXT pair-to-pair @1MHz	dB	55	55	55	55	55	55
Minimum NEXT pair-to-pair @10MHz	dB	40	40	40	40	40	40
Dielectric Strength 1min	V DC	1500	1500	1500	1500	1500	1500



### 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

### COLOUR CODE

Standard colour code is per ANSI/ICEA S-80-576 given in Colour Code Chart.

### DIMENSIONS AND WEIGHT

Cable Code	Number of Pairs	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
TP576-2Y(St)Y-24P04-ADSL	24 / 3X4Q	0.2	0.9	11.0	139
TP576-2Y(St)Y-32P04-ADSL	32 / 4X4Q	0.2	0.9	12.0	180
TP576-2Y(St)Y-64P04-ADSL	64	0.15	1.0	15.0	300
TP576-2Y(St)Y-72P04-ADSL	72	0.15	1.0	16.0	330
TP576-2Y(St)Y-96P04-ADSL	96	0.15	1.1	19.5	450
TP576-2Y(St)Y-128P04-ADSL	128	0.15	1.2	20.0	528

