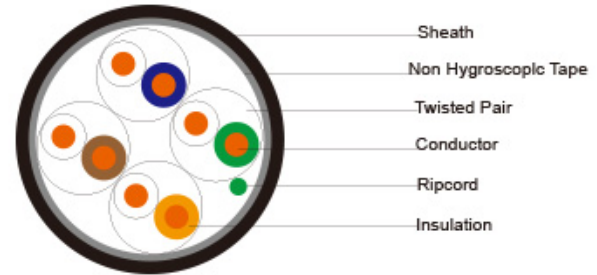


PE Insulated ISDN Basic Access Air Core  
Cables

<b>Application</b>	The cables are used as basic access for ISDN services in central office wiring and cabling for ISDN basic access installation.
<b>Standards</b>	ER.f5.058
<b>Construction</b>	
<b>Conductors:</b>	Solid annealed bare copper sized 0.5/0.6mm as per ASTM B-3/IEC 60228 class 1
<b>Insulation:</b>	Solid polyethylene as per ASTM D 1248/IEC 60708
<b>Twisted Pairs:</b>	Insulated conductors are twisted into pairs with varying lays to minimize crosstalk
<b>Cable Core Assembly:</b>	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
<b>Core Wrapping:</b>	One or more non-hygroscopic polyester tapes are helically or longitudinally laid with an overlap
<b>Screen:</b>	Aluminium/Polyester tape is applied longitudinally with an overlap
<b>Sheath:</b>	PVC/LSZH
<b>Ripcord:</b>	Nylon ripcord may be placed parallel to the cores to facilitate sheath removal

**Electrical Properties**

<b>Nominal Conductor Diameter</b>	mm	0.5	0.6
<b>Conductor Gauge Size</b>	AWG	24	-
<b>Conductor Size</b>	mm <sup>2</sup>	0.196	0.283
<b>Maximum Conductor Resistance @20°C</b>	Ω/km	91	63
<b>Minimum Insulation Resistance @500V DC</b>	MΩ.km	16000	16000
<b>Maximum Resistance Unbalance</b>	%	2.5	2.5
<b>Average Mutual Capacitance</b>	nF/km	52	52
<b>Maximum Capacitance Unbalance @1KHz pair-to-pair</b>	pF/km	260	260

Maximum Capacitance Unbalance @1KHz pair-to-ground	pF/km	2625	2625
Maximum Average Attenuation @20KHz	dB/km	4.9	3.9
Maximum Average Attenuation @40KHz	dB/km	6.2	4.8
Maximum Average Attenuation @60KHz	dB/km	7.0	5.6
Maximum Average Attenuation @80KHz	dB/km	7.7	6.0
Maximum Average Attenuation @100KHz	dB/km	7.9	6.3
Minimum ELFEXT pair-to-pair @20KHz	dB	56	56
Minimum ELFEXT pair-to-pair @40KHz	dB	52	52
Minimum ELFEXT pair-to-pair @60KHz	dB	50	50
Minimum ELFEXT pair-to-pair @80KHz	dB	49	49
Minimum ELFEXT pair-to-pair @100KHz	dB	48	48
Minimum NEXT pair-to-pair @20KHz	dB	61	61
Minimum NEXT pair-to-pair @40KHz	dB	57	57
Minimum NEXT pair-to-pair @60KHz	dB	55	55
Minimum NEXT pair-to-pair @80KHz	dB	54	54
Minimum NEXT pair-to-pair @100KHz	dB	51	51
Dielectric Strength Conductor to Conductor 3secs	V DC	3600	3600
Nominal Insulation Thickness	mm	0.2	0.25
Nominal Insulated Conductor Diameter	mm	0.9	1.1

**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: 15 x Overall Diameter

**Colour Code**

Standard colour code is per BT CW 110J given in Colour Code Chart.

**Dimensions And Weight**

Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
0.5mm Conductor, 0.9mm Insulated Wire				
TP58-2Y(St)Y2P05-ISDN-B	2	0.8	4.5	23.0
TP58-2Y(St)Y4P05-ISDN-B	4	0.8	5.0	33.5
0.6mm Conductor, 1.1mm Insulated Wire				
TP58-2Y(St)Y2P06-ISDN-B	2	1.0	5.5	30.0
TP58-2Y(St)Y4P06-ISDN-B	4	1.0	6.0	45.0