



**UNIWIRE**  
**BROADBAND & TELEPHONE CABLES**



**UNIWIRED®** twisted paired cables are best suited for telephone cabling applications. The conductor is made of solid annealed, electrolytic grade high conductivity bare copper. The conductor is insulated with special grade high-density polyethylene with different colours. The insulated cores are twisted with uniform lay to form pairs and are bunched together in such a manner so as to minimise cross talk. In 50 and 100 pair cables the units of 10 and 20 pairs respectively are identified with colour binders and stranded to form the laid up cable. The laid up cable is further jacketed with a grey colour fire retardant (FR) PVC specially formulated and manufactured in-house, with high oxygen and temperature index. The cables can be used for internal telephone wiring in high-rise buildings, offices, factories, hotels, residential complexes, etc. Stringent quality control at every stage, from raw material through manufacturing, up to the finished product guarantees high quality.

**Salient Features :** ■ Low Attenuation ■ Low Crosstalk ■ Fire Retardant Jacket in Grey

Construction Parameters	1 Pair	2 Pair	3 Pair	4 Pair	5 Pair	10 Pair	20 Pair	50 Pair	100 Pair	
Conductor (Solid annealed bare copper)	0.4 mm diameter (nom.) & 0.5 mm diameter (nom.)									
Insulation Material (0.4 & 0.5 mm dia.)	High density polyethylene									
Insulation Thickness (Average)	0.4 mm dia. 0.5 mm dia.				0.17 mm 0.20 mm					
Diameter of Insulated Conductor (Maximum)	0.4 mm dia. 0.5 mm dia.				0.74 mm 0.92 mm					
Rip cord (0.4 & 0.5 mm dia.)	Nylon - placed under Jacket for Jacket stripping									
<b>Colour Combination</b>	<b>For 0.4 mm dia. &amp; 0.5 mm dia.</b>									
Pair 1	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	
Pair 2	-	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	White-Orange	
Pair 3	-	-	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green	
Pair 4	-	-	-	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown	
Pair 5	-	-	-	-	White-Grey	White-Grey	White-Grey	White-Grey	White-Grey	
Pair 6	-	-	-	-	-	Red-Blue	Red-Blue	Red-Blue	Red-Blue	
Pair 7	-	-	-	-	-	Red-Orange	Red-Orange	Red-Orange	Red-Orange	
Pair 8	-	-	-	-	-	Red-Green	Red-Green	Red-Green	Red-Green	
Pair 9	-	-	-	-	-	Red-Brown	Red-Brown	Red-Brown	Red-Brown	
Pair 10	-	-	-	-	-	Red-Grey	Red-Grey	Red-Grey	Red-Grey	
Pair 11	-	-	-	-	-	-	Black-Blue	-	Black-Blue	
Pair 12	-	-	-	-	-	-	Black-Orange	-	Black-Orange	
Pair 13	-	-	-	-	-	-	Black-Green	-	Black-Green	
Pair 14	-	-	-	-	-	-	Black-Brown	-	Black-Brown	
Pair 15	-	-	-	-	-	-	Black-Grey	-	Black-Grey	
Pair 16	-	-	-	-	-	-	Yellow-Blue	-	Yellow-Blue	
Pair 17	-	-	-	-	-	-	Yellow-Orange	-	Yellow-Orange	
Pair 18	-	-	-	-	-	-	Yellow-Green	-	Yellow-Green	
Pair 19	-	-	-	-	-	-	Yellow-Brown	-	Yellow-Brown	
Pair 20	-	-	-	-	-	-	Yellow-Grey	-	Yellow-Grey	
<b>No. of Unit</b>	<b>1 X 1 P</b>	<b>1 X 2 P</b>	<b>1 X 3 P</b>	<b>1 X 3 P</b>	<b>1 X 5 P</b>	<b>1 X 10 P</b>	<b>1 X 20 P</b>	<b>5 X 10 P</b>	<b>5 X 20 P</b>	
Colour of Unit Identification Binder	0.4 mm dia. & 0.5 mm dia.									
Unit 1	-	-	-	-	-	-	-	Blue	Blue	
Unit 2	-	-	-	-	-	-	-	Orange	Orange	
Unit 3	-	-	-	-	-	-	-	Green	Green	
Unit 4	-	-	-	-	-	-	-	Brown	Brown	
Unit 5	-	-	-	-	-	-	-	Grey	Grey	
PVC Jacket (0.4 mm dia. & 0.5 mm dia.)	FRPVC compound with high oxygen index									
Approx. Outer Diameter	0.4 mm dia. 0.5 mm dia.	2.40 2.75	3.10 3.50	3.50 4.00	3.90 4.70	4.30 5.50	6.20 8.20	8.40 10.50	12.30 15.20	16.80 20.40
Packing Length (mtrs) 0.4 mm dia. & 0.5 mm dia.	90	90	90	90	90	90	90	90	500	500

Electrical Parameters	0.40 mm dia	0.50 mm dia
Conductor Resistance (max.) ohms/km at 200C	143.0	92.20
Mutual Capacitance (max.) nf/km	50	50
Insulation Resistance in Air (min.) M-ohms/km	10,000	10,000
Capacitance Unbalance Pair to Pair (max.) pF/km	250	250

## UNIWIRED BROADBAND CABLES

DROP CABLE -SINGLE Pair -0.50 mm

DROP CABLE -SINGLE Pair -0.41 mm