

# Finolex



**VASHI ELECTRICALS PVT. LTD.**

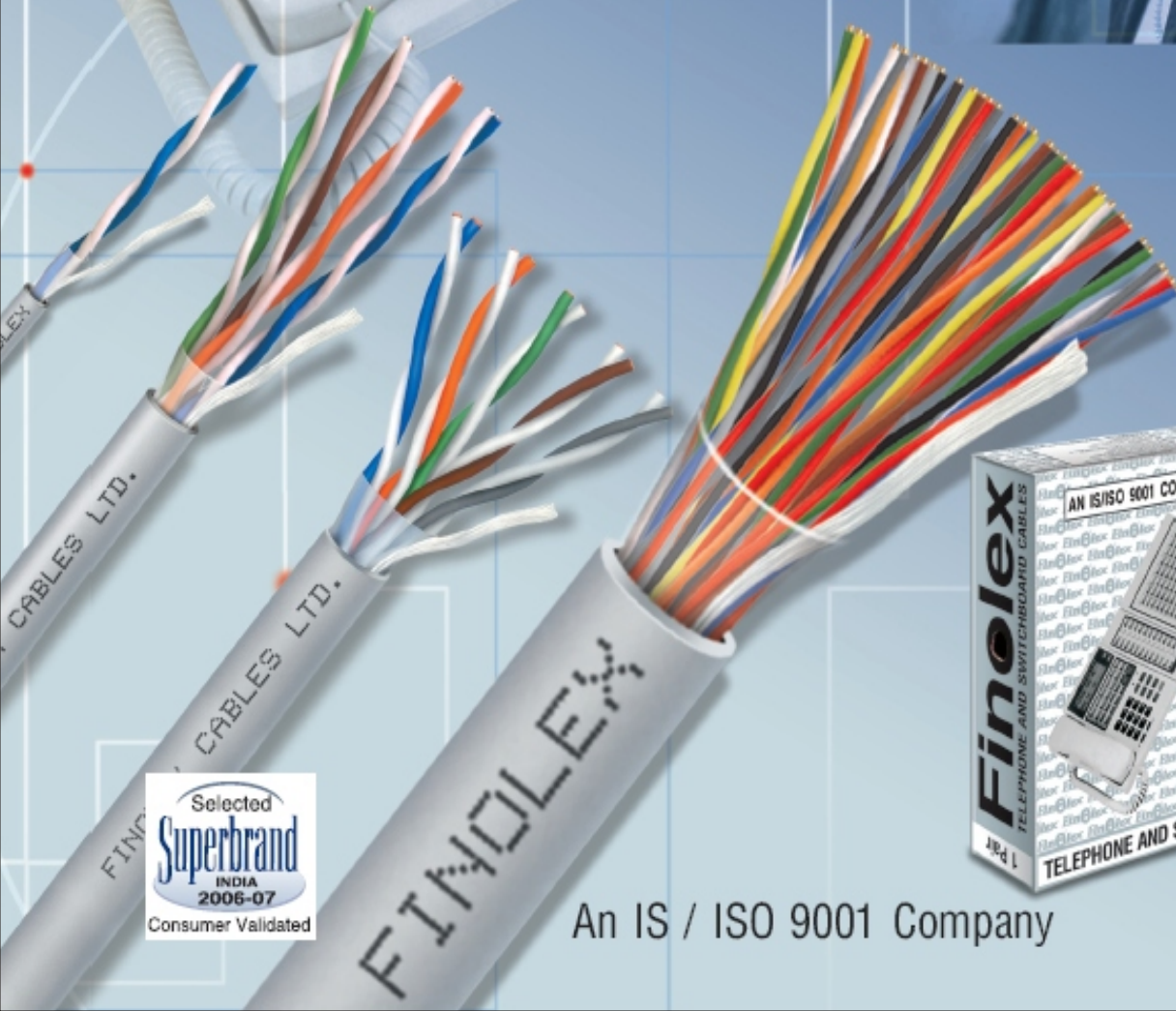
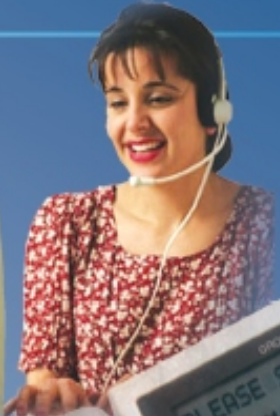
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An IS / ISO 9001 Company

# Telephone & Switchboard Cables

# FINOLEX TELEPHONE & SWITCHBOARD CABLES

Finolex twisted paired cables are best suited for telephone and switchboard cabling applications. The conductor is made of solid annealed, 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 taped with polyester tape and 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 switchboard and internal telephone wiring in high-rise buildings, offices, factories, hotels, residential complexes, etc. They generally conform to ITD specifications G/WIR-06/02. May 94.

Stringent quality control at every stage, from raw material through manufacturing, upto the finished product, guarantees high quality.

## Salient Features :

- Low Attenuation
- Low Crosstalk
- Fire Retardant Jacket

Construction Parameters	1 Pair	2 Pairs	3 Pairs	4 Pairs	5 Pairs	10 Pairs	20 Pairs	25 Pairs	50 Pairs	100 Pairs	
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										
<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	White-Blue	
Pair 2	-	White-Orange	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	White-Green	
Pair 4	-	-	-	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown	White-Brown	
Pair 5	-	-	-	-	White-Grey	White-Grey	White-Grey	White-Grey	White-Grey	White-Grey	
Pair 6	-	-	-	-	-	Red-Blue	Red-Blue	Red-Blue	Red-Blue	Red-Blue	
Pair 7	-	-	-	-	-	Red-Orange	Red-Orange	Red-Orange	Red-Orange	Red-Orange	
Pair 8	-	-	-	-	-	Red-Green	Red-Green	Red-Green	Red-Green	Red-Green	
Pair 9	-	-	-	-	-	Red-Brown	Red-Brown	Red-Brown	Red-Brown	Red-Brown	
Pair 10	-	-	-	-	-	Red-Grey	Red-Grey	Red-Grey	Red-Grey	Red-Grey	
Pair 11	-	-	-	-	-	-	Black-Blue	Black-Blue	-	Black-Blue	
Pair 12	-	-	-	-	-	-	Black-Orange	Black-Orange	-	Black-Orange	
Pair 13	-	-	-	-	-	-	Black-Green	Black-Green	-	Black-Green	
Pair 14	-	-	-	-	-	-	Black-Brown	Black-Brown	-	Black-Brown	
Pair 15	-	-	-	-	-	-	Black-Grey	Black-Grey	-	Black-Grey	
Pair 16	-	-	-	-	-	-	Yellow-Blue	Yellow-Blue	-	Yellow-Blue	
Pair 17	-	-	-	-	-	-	Yellow-Orange	Yellow-Orange	-	Yellow-Orange	
Pair 18	-	-	-	-	-	-	Yellow-Green	Yellow-Green	-	Yellow-Green	
Pair 19	-	-	-	-	-	-	Yellow-Brown	Yellow-Brown	-	Yellow-Brown	
Pair 20	-	-	-	-	-	-	Yellow-Grey	Yellow-Grey	-	Yellow-Grey	
Pair 21	-	-	-	-	-	-	-	Violet-Blue	-	-	
Pair 22	-	-	-	-	-	-	-	Violet-Orange	-	-	
Pair 23	-	-	-	-	-	-	-	Violet-Green	-	-	
Pair 24	-	-	-	-	-	-	-	Violet-Brown	-	-	
Pair 25	-	-	-	-	-	-	-	Violet-Grey	-	-	
<b>No. of Units</b>	<b>1 x 1 P</b>	<b>1 x 2 P</b>	<b>1 x 3 P</b>	<b>1 x 4 P</b>	<b>1 x 5 P</b>	<b>1 x 10 P</b>	<b>1 x 20 P</b>	<b>1 x 25 P</b>	<b>5 x 10 P</b>	<b>5 x 20 P</b>	
Colour of Unit Identification Binder	For 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 3.10	3.10 3.90	3.50 4.20	3.90 5.10	4.30 5.60	6.20 8.20	8.40 10.50	9.30 10.70	12.30 15.20	16.80 20.40
Packing Length (mtrs) 0.4 mm dia & 0.5 mm dia.		100	100	100	100	100	100	100	500	500	500

Electrical Parameters	0.4 mm dia	0.5 mm dia
Conductor Resistance (max.) ohms/km at 20°C	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