

Telephone & Switchboard Cables



TELEPHONE SWITCHBOARD

An ISO 9001:2000 Certified Co.

TELEPHONE and SWITCHBOARD Cables

a german innovation



High Speed Transmission



Zero Noise Level



No Cross Talk



No Voice Loss



Fire Retardant



Low Attenuation



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Effective communication plays a vital role in the economic growth of any country. Keeping this in mind, HILLS CAB is the pioneer company in India to enter the Telecommunication field by manufacturing polyethylene insulated Jelly Filled Telephone Cables (PIJF).

Each conductor consists of a solid bare round wire of annealed high conductivity copper, smoothly drawn with uniform diameter and resistance. It is insulated with either solid medium/high density polyethylene or Foam Skin polyethylene insulation. The conductor is insulated uniformly in various colours with extremely tight tolerances to help the cable meet the electrical and transmission requirements of specification.

Individual insulated conductors are twisted together with a uniform lay to form a pair. The length of the lay of each pair is different from that of the adjacent pair to enable the cable to meet the capacitance unbalance, attenuation and cross talk requirements of the specifications. The pairs have specific colour combination for easy identification.

The twisted pairs are stranded in a single unit of 10, 20 and 25 pairs and wrapped helical with an identification colour binder. For higher pairage cable, a number of units are stranded together to form a super unit. A coloured identification binder is wrapped around the super units for easy identification.

These units or super units are then laid up to form the core of the cable. During this operation a water-resistant filling compound is introduced to fully fill the interstices of the laid up core. This filling compound acts as a dielectric between the layers and the moisture barrier. The Jelly Filled laid up Cable is then covered with a layer of non-hygroscopic polyester tape to pack the jelly. This also acts as a mechanical protection to the cable core, and acts as a dielectric.

CONSTRUCTION							
Conductor		Insulation			Rip Cord	Sheath	
Material	Nominal Diameter (mm)	Material	Nominal Thickness (mm)	Nominal Dia of Insulated Conductor (mm)	Material	Material	Minimum Thickness (mm)
Bright Annealed Pure Electrolytic Copper	0.50	HDPE	0.20	0.95	Nylon	FR PVC with high oxygen and temperature index	1 Pair 0.50 2-8 Pair 0.65 10 Pair 0.75

COLOUR COMBINATION		
No. of Pairs	2 Pair	5 Pair
Pair No. 1	White - Blue	White - Blue
Pair No. 2	White - Orange	White - Orange
Pair No. 3		White - Green
Pair No. 4		White - Brown
Pair No. 5		White - Grey

ELECTRICAL PARAMETERS	
Conductor Resistance	Max. 92.20 ohm / Km at 200C
Mutual Capacitance	Max. 50 nf/Km
Insulation Resistance in Air	Min. 10000 M-ohm/Km
Capacitance Unbalance Pair to Pair	Max. 250 pf/100 m

Meets additional requirements of international standards



All information given herein is in good faith. Hills shall not be liable for any damages arising out of incorrect uses or interpretation. The company reserves the right to change any of the above specification without any prior notice.

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