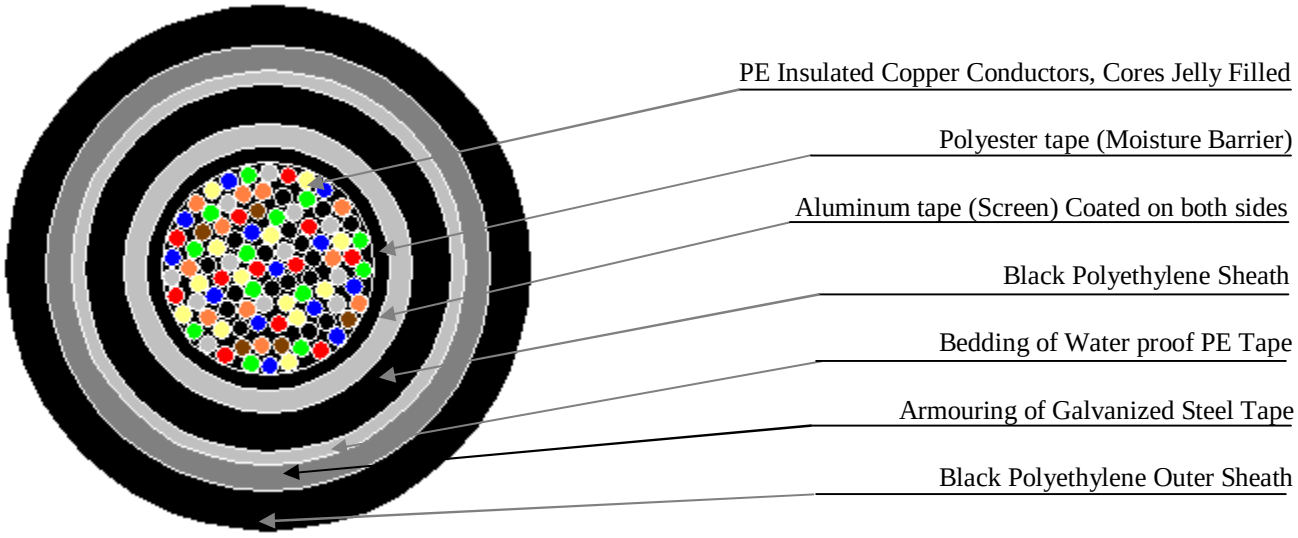

Construction

Solid Annealed Copper Conductor drawn from continuous cast copper Rods are insulated with Solid / Foam / Foam-Skin Polyethylene Compound on Tandem Insulating Lines. Insulated Conductors are paired and assembled into 10 Pairs / 20 Pairs Units with identification Binders. Numbers of units are grouped to form super units of 50 Pairs /100 Pairs. Units/ Super Units are stranded and simultaneously filled with Jelly and wrapped with Layer(s) of Polyester Tape. The cable core so formed is flooded with Water Swellable Jelly and Screened with Aluminium Foil. Black Polyethylene is extruded over the Screen and gets bonded to the screen. Layer(s) of Bedding Tape are applied helically with overlap. Armour consisting of Two Layers of Galvanized Steel Tape is applied helically with gap, the second tape covers the gap of the first tape. Black Polyethylene is extruded over the armouring. Other variants of the cable such as Un-Armoured cables for installation in Ducts, Aerial Cables for overhead installation are also in the product range.

Sizes

- 5 to 2400 Pairs
- Conductor Dia. 0.4mm,0.5mm,0.63mm,0.9mm

Product Types

- Armoured Cable (Direct Burial)
- Unarmored or Duct Cable
- Aerial Cable (Figure 8)
- Indoor Telephone Cable (PVC Insulated)

Parameter	Description			
Conductor Size	0.4	0.5	0.63	0.9
Conductor	Solid Annealed Bare Copper			
Conductor Elongation %	15	15	18	18
Insulation	HDPE/MDPE Solid (Foam / Foam-Skin also available)			
Spark Test on Insulation	3 KV RMS AC , 1 Spark per 5 km			
Retraction of Insulation	2.5mm after 1 Min			
Resistance to Compression	200 N , 12 V DC			
Construction	10/20 Pair Units and 50/100 Pair Super Units			
Filling Compound	Hot Melt Jelly (Water Resistant)			
Core Wrap	Polyester Tape			

Contd.2/-

Parameter	Description
Moisture Barrier	Aluminium Tape coated on Both Sides
Sheath / Jacket	Black LDPE
Armouring	Galvanized Steel Tape
Bedding for Armour	PE Tapes

Electrical Parameters				
Conductor Resistance Ω/km	135±8	86±6	58±4	28±2
Resistance Unbalance (%) Individual Average	 3 1.5	 2.5 1	 2 1	 2 1
Mutual Capacitance nF/km Individual Average	52±4.5 52±3			
Capacitance Unbalance pF/km Individual Average	3000 750			
Attenuation at 150 kHz	12	8.25	6.3	4.4
Equal Level Far End Crosstalk at 150 kHz dB/km Individual RMS	55 67.8			
Near End Crosstalk at 150 kHz dB Individual	55			
Insulation Resistance	5000 Mega Ohms – Km			
Dielectric Strength ,KV DC Cdr-Cdr Cdr-Shield	 2.4 5	 2.4 5	 3 10	 3 10

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