



## Hybrid Armoured Optical Cable Fibre



### DESCRIPTION

These cables are designed for direct burial & duct application and provide excellent transmission performance & protection to fibre in variety of field environment

### APPLICATION

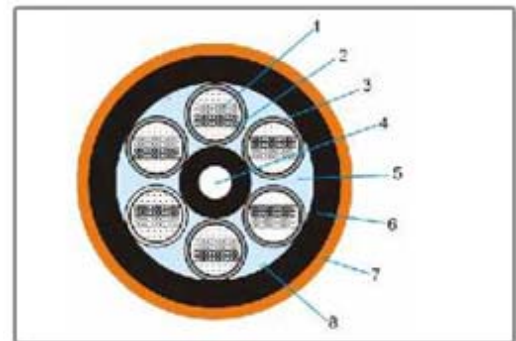
- Long haul communication system
- Communication between manholes
- Power supply to repeaters
- Along gas, petroleum pipelines

### FEATURES

- Protection against rodents & termites
- S-Z Stranded
- Outstanding Impact & Crush resistance
- Standard fibre counts : 2 - 48
- Standard Copper pair : upto 5
- Available with stainless/chrome plated steel tape armour

### CABLE CROSS SECTION

1. Insulated Copper Pair - Annealed copper insulated with polyethylene
2. Primary Coated Optical Fibre - Single mode / Multimode
3. Tube Filling Compound - Thixotropic gel
4. Loose Tube - Thermoplastic material
5. Central Strength Member - Fibre reinforced plastic rod
6. Water Blocking Media - Water Swellable Tape / Suitable Water Blocking Gel
7. Core Wrapping - Polyester tape.
8. Inner Sheath - Black Polyethylene
9. Armour - Corrugated Steel Tape.
10. Outer Sheath - Black Polyethylene



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**MECHANICAL & ENVIROMENTAL CHARACTERISTICS**

Tensil force (IEC 60794-1-E1)	
During installation	1.3 x W
Permanent	0.6 x W
Bending radius (IEC607494-1-E11)	
Temporary, unloaded	20D
Permanent, during installation	25D
Repeated bending (EI!-455-104)	30 times, with weight of 50N
Torsion resistance (IEC 60794-1-E7)	10 cycle with load of 400N
Crush resistance (IEC 60794-1-E3)	4000N (100 x 100mm)
Impact resistance (IEC 60794-1-E4)	25N-m
Kink resistance (IEC 60794-1-E10)	20D
Temperature range (IEC 60794-1-F1)	
Operation	-30° to +70° C
Storage	-30° to +70° C
Installation	-20° to +50° C
Water Penetration (IEC 60794-1-F5)	Pass
W = Weight in Kg of 1 Km. cable	D = Diameter of cable in mm.

**COLOUR CODING**

Colour of fibre in Ribbon	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose & Natural Last fibre in tube will be Natural
Identification method	Marker & Tracer Blue tube/filler (Marker) Orange tube/filler(Tracer)
Other elements	Natural and/ Black
Colour of Copper Wires	1 <sup>st</sup> Wire White 2 <sup>nd</sup> Wire Blue, Orange, Green. Brown & Grey

**DELIVERY INFORMATION**

Cable Weight (Nominal) – Kg / Km	250
Cable Diameter (Nominal) – mm	16.2
Supplied Length – Kms	2, 4 & 6

Note :

1. Fibre in cable can comply to G651/G652/G652D/G655 or as desired. Properties of cabled fibre available on request.
2. The given cable cross section and characteristics will change as per specification desired by the customers.

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