

## LOOSE TUBE TYPE FILLED ( SM ) B J F OPTICAL FIBER CABLE

### Product Description:

#### Optical Fiber Core

- Optical fiber core should be complied with ITU recommendation TG.652 and EIA standards.
- Cladding diameter: 125.0 ±2.0 μm
- Cladding circular error: max. 2 %
- Core concentricity error: max.1.0 μm
- Coating Diameter: 250 ±15 μm
- Operating wave-length:1310nm or 1550nm
- Max. attenuation:
  - 1310nm : 0.4 / 0.5 dB/km
  - 1550nm : 0.25 / 0.3 dB/km
- Max. dispersion:
  - 1310nm : 3.09 ps/km-nm
  - 1550nm : 18.21 ps/km-nm
- Cut-off wave-length: 1100 ~ 1330nm
- Mode field Diameter1310nm:(8.5~9.5) μm±5%
- Temperature range:
  - Operation: - 30°C ~ + 60°C
  - Storage : - 30°C ~ + 60°C
  - Installation: 0°C ~ + 60°C

#### Fiber Cores Assembly

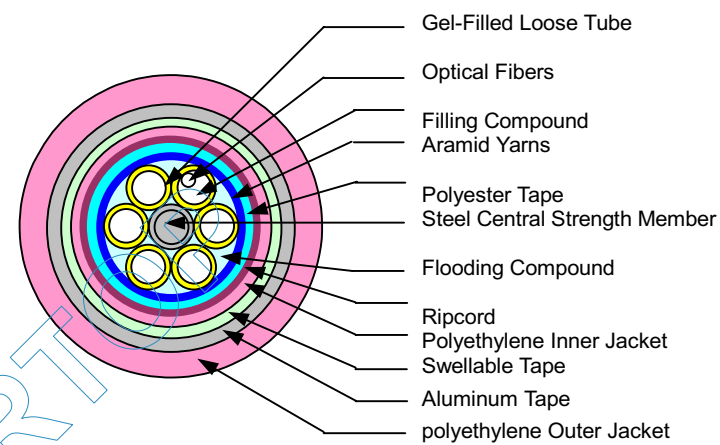
- 6-Fiber Unit or 12 Fiber Unit shall be assembled to form a sub-unit, water-proof compound should be filled into the interstice of the fiber cores.
- Each sub-unit should be bounden with a coloured loose tube to form a concentrated sub-unit.

- All the sub-units should be assembled in sequential terms, all the interstice between each sub-unit should be filled with water-proof compound or water-proof aramid yarns, and more one layer of non-woven water-proof tape should be bound surrounding to form a complete fiber cores.
- For actual requirements (except 6-fiber core cable), a steel tension member with PE sheath should be used in the center of the optical fiber cable.

#### PE Inner Sheath & LAP Outer Sheath

- Over the completed fiber cores should be extruded with a layer of PE compound.
- A layer of swellable non-woven tape should be wrapped on the PE sheath.
- Over the aramid yarns should be wrapped a longitudinally foled copolymer coated aluminum screen tape and a moisture barrier extruded polyethylene should be extruded to form a LAP sheath.

#### Construction



### Specification & Properties

Fiber Count	Outside Dia.	Unit Weight	Total No.of Loose Tube Position	Max.No.Fibers per Tube	Max Tensile Load		Min Bend Radius	
					Short Term	Long Term	Loaded	Unloaded
Cores	mm	kg/km	No. of Tube	cores	kg	kg	mm	mm
2~24	15.0	190	5	6	2670	600	310	170
36	15.3	210	6				340	170
48	16.6	240	8				300	150
12,24,36,48,60,72	17	220	6	12			340	170
84, 96	20.5	260	8				410	210