

CORRUGATED STEEL TAPE AMOR TYPE OF 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

Loose Tube Type Fiber Cores

- 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.

FRP Type Fiber Cores

- To put a FRP tension member at the center of the cable cores, around the tension member should be assembled with loosed type fiber cores, and the interstice should be filled with water-proof compounds.

Armoured & Jacket

- Over the complete assembled fiber cores should be wrapped with swellable tape and should be extruded a layer of PE compound as a inner jacket.
- Over the inner jacket should be applied with laminated aluminum screen tape PE outer-sheath(LAP), laminated aluminum screen and corrugated steel tape armoured PE outer-sheath(LSP), or laminated aluminum screen tape flame retardant PE outer-sheath(FR-LAP).

Applications

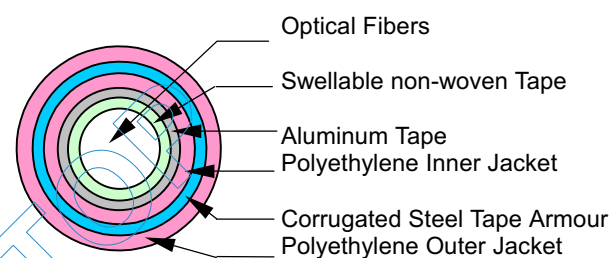
- Suitable for direct burial application and for junction, long-haul communication.

Fiber Cores Assembly

Slotted(and/ or Ribbon) Type

- 4-fiber cores shall be parallel to form a sub-unit, a transparent polyester compound extruded to form a piece of flat ribbon tape.
- The material of slot should be PE compound, and the center should be reinforced with a galvanized steel wire as a tension member. The slotted core should be with 5~6 slots, and the space of each slot may be filled with 1~5 pieces of fiber ribbon tapes or 1~2 pair of insulated copper wires.

Construction



Specification & Properties

ITEM	Specification				
Type	Slotted Type	Slotted Ribbon Type		Loose Tube Type	FRP Type
Fiber Count	2~48	ASR 4~100	BSR 200~600	2~216	2~216
Outside Dia.	(Duct cable) +3.0mm	(Duct cable) +4.0mm	(Duct cable) +4.0mm	(Duct cable) +1.5mm	(Duct cable) +3.0mm
Unit Weight	(Duct cable) +100kg/km	(Duct cable) +100kg/km	(Duct cable) +150kg/km	(Duct cable) +60kg/km	(Duct cable) +100kg/km
Allowable Tensile	200/273 kgf	200 kgf	800 kgf	273 kgf	273 kgf
Allowable compression stress	400kg/10cm	400kg/10cm		454kg/10cm	