

GYTS-1

Optical Fiber Cable PSP Armored Stranded Loose Tube Duct Installation

In the GYTS cable, single-mode/multimode fibres are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core.

For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core, and the PSP is longitudinally applied around the cable core before a PE sheath is extruded over it.



1. Loose Tube: thermoplastic material, containing optical fibers and filled with gel.
2. Central Strength Member(CSM): phosphate steel wire.
3. Armor: corrugated steel tape.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Cable Filling Compound
6. Outer Sheath: black polyethylene.

Features:

Excellent mechanical and temperature performance guaranteed by the accurate excess fibre length

Critical protection to fibres, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube

Excellent crush resistance and flexibility

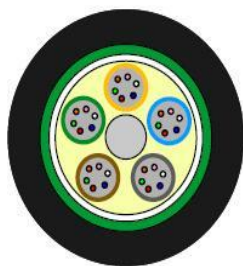
Excellent ultraviolet prevention with PE sheath

The following measures are taken to ensure the water blocking performance of the cable:

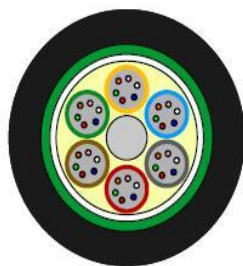
- Single steel wire used as the central strength member
- Special water-blocking filling compound in the loose tube
- 100% cable core filling
- PSP moisture barrier

Technical Characteristics:

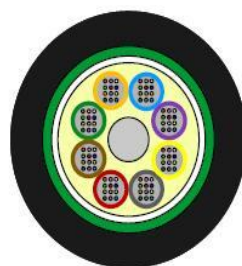
| Cable Type | Fiber Count | Tubes + Fillers | Max. No. of Fibers in Tube | Cable Diameter (mm) | Cable Weight (kg/km) | Tensile Strength Long/Short Term (N) | Crush Resistance Long/Short Term (N/100 mm) |
|--------------|-------------|-----------------|----------------------------|---------------------|----------------------|--------------------------------------|---|
| GYTS-2~30 | 2~30 | 5 | 6 | 9.8 | | 600/1500 | 300/1000 |
| GYTS-32~36 | 32~36 | 6 | 6 | 10.4 | | 600/1500 | 300/1000 |
| GYTS-38~60 | 38~60 | 6 | 12 | 10.6 | | 600/1500 | 300/1000 |
| GYTS-62~72 | 62~72 | 6 | 12 | 12.1 | | 600/1500 | 300/1000 |
| GYTS-74~96 | 74~96 | 8 | 12 | 12.1 | | 600/2000 | 300/1000 |
| GYTS-98~120 | 98~120 | 10 | 12 | 15.8 | | 600/2500 | 300/1000 |
| GYTS-122~144 | 122~144 | 12 | 12 | 15.8 | | 600/2500 | 300/1000 |



GYTS-30



GYTS-36



GYTS-96