

**Description:**

The fibers, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of corrugated steel tape. Between the corrugated steel tape and the loose tube, water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the corrugated steel tape. The cable is completed with a PE or LSOH sheath.

Features:

- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Crush resistance and flexibility
- Steel tape enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- Small diameter, light weight and friendly installation

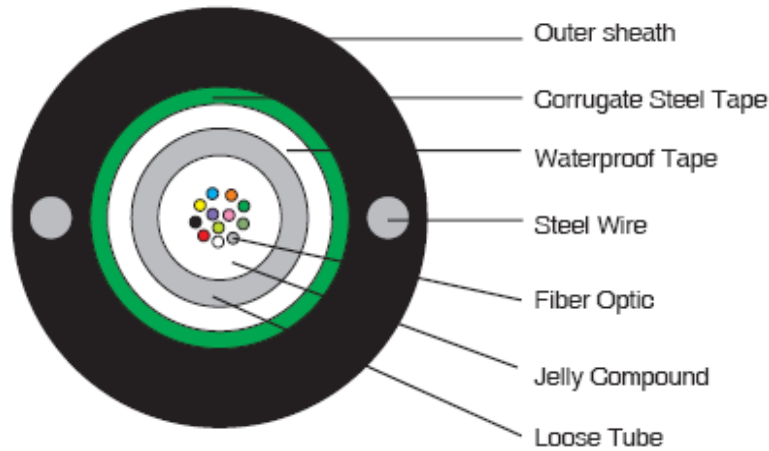
Compliances:

- ITU-T G651 / G652 D
- ANSI/TIA 568-C.3
- IEC-794
- RoHS

Applications:

- Suitable for direct buried, aerial or duct installation

Drawing:



Note: Drawing is the 12 fibers cable as an example

Structure & Environmental Characteristics:

| | | |
|-------------------------------|------------------|-----------------------|
| Loose Tube | Material | PBT |
| Peripheral Strength Member | Material | Steel Wire |
| | Diameter | 1.0 mm |
| Wrapping | Material | Waterproof Tape |
| Moisture Barrier | Material | Corrugated Steel Tape |
| Sheath | Material / Color | PE/LSOH, black |
| Installation Temperature | -40°C to +70°C | |
| Operation Temperature | -40°C to +70°C | |
| Storage/Transport Temperature | -40°C to +70°C | |

Mechanical Characteristics:

| Fiber Count | Outside Diameter (mm) | Cable Weight (kg/km) | Tensile Load(Min.) | | Crush Load | | Bend Radius | |
|-------------|-----------------------|----------------------|--------------------|---------------|----------------|---------------|-------------|--------------|
| | | | Short term (N) | Long term (N) | Short term (N) | Long term (N) | Static (mm) | Dynamic (mm) |
| 2C | 8.7±0.5mm | 82 | 1500 | 600 | 1000 | 300 | 10D | 20D |
| 4C | 8.7±0.5mm | 82 | 1500 | 600 | 1000 | 300 | 10D | 20D |
| 6C | 8.7±0.5mm | 82 | 1500 | 600 | 1000 | 300 | 10D | 20D |
| 8C | 8.7±0.5mm | 85 | 1500 | 600 | 1000 | 300 | 10D | 20D |
| 12C | 8.7±0.5mm | 90 | 1500 | 600 | 1000 | 300 | 10D | 20D |
| 16C | 11.5±0.5mm | 104 | 1500 | 600 | 1000 | 300 | 10D | 20D |
| 24C | 11.5±0.5mm | 124 | 1500 | 600 | 1000 | 300 | 10D | 20D |

Note: "D" is cable diameter

Fiber Color Code:

| | | | | | | |
|----------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------------|------------------------|
| No. of fiber | 1 | 2 | 3 | 4 | 5 | 6 |
| Color of fiber | Blue | Orange | Green | Brown | Grey | White |
| No. of fiber | 7 | 8 | 9 | 10 | 11 | 12 |
| Color of fiber | Red | Black | Yellow | Violet | Pink | Aqua |
| No. of fiber | 13 | 14 | 15 | 16 | 17 | 18 |
| Color of fiber | Blue/ Black Tracer | Orange/ Black Tracer | Green/ Black Tracer | Brown/ Black Tracer | Grey/ Black Tracer | White/ Black Tracer |
| | | | | | | |
| No. of fiber | 19 | 20 | 21 | 22 | 23 | 24 |
| Color of fiber | Red/ Black Tracer | Neutral/ Black Tracer | Yellow/ Black Tracer | Violet/ Black Tracer | Pink/ Black Tracer | Aqua/ Black Tracer |
| | | | | | | |

Optical Performance:

| | | | | | | |
|-------------------------------|---------------|-----------------|---------------|---------------|--------------------|--------------------|
| | Wavelength | 9/125 μm | 50/125μm | 62.5/125μm | 50/125μm (OM3) | 50/125μm(OM4) |
| Max. Attenuation dB/km | 850 / 1300nm | -- | ≤ 3.2 / ≤ 1.2 | ≤ 3.2 / ≤ 1.2 | ≤ 3.2 / ≤ 1.2 | ≤ 3.2 / ≤ 1.2 |
| | 1310 / 1550nm | ≤ 0.36 / ≤ 0.22 | -- | -- | -- | -- |
| Minimum Bandwidth MHz · km | 850 / 1300nm | -- | 500 / 500 | 200 / 500 | 1500 / 500 @ LED | 3500 / 500 @ LED |
| | | | | | 2000 / 500 @ Laser | 4700 / 500 @ Laser |

Ordering information:

Part No. 2671xyzzz
 Description Premium Line fiber optic outdoor cable, steel armored with two parallel steel wires strength, uni-tube
 x, mode 1: MM 62.5/125 2: SM 9/125 3: MM 50/125 4: MM/OM3 9: MM/OM4
 y, sheath 2: LSOH 3: MDPE 6: HDPE
 zzz, fiber count 002 / 004 / 006 / 008 / 012 / 016 / 024

Packing information:

1. cable be wound on an iron stand-wooden composite
2. standard drum length is 2000m ±1%
3. covered by plastic buffer sheet
4. sealed by strong wooden battens
5. at least 1.1m of inner end of cable should be reserved for testing
6. test protocol at side of the drum

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