

**Description:**

The cable use fibers subunits ( $\phi 900\mu\text{m}$  tight buffer fiber, aramid yarn as strength member), the subunits are stranded around the fibers cores. A fiber reinforced plastic locates in the center of the complete cable as a non-metallic strength member. The cable is completed with a LSOH or PVC jacket.

**Features:**

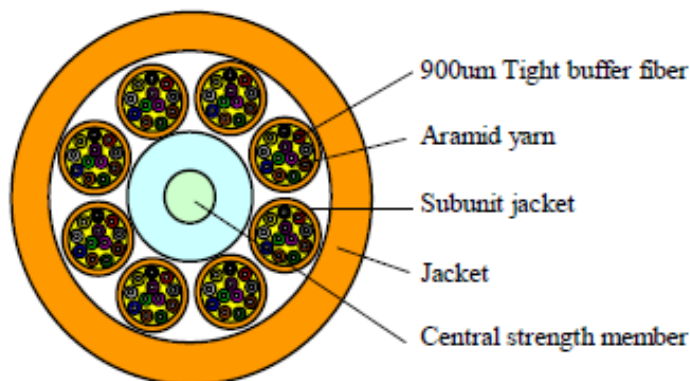
- Excellent tensile strength
- Excellent flame-retardant performance
- Anti-corrosion, anti-water, anti-ultraviolet radiation and harmless to environment
- sheath color, SM cable in yellow, MM cable in orange, OM3 cable in aqua, OM4 cable in purple, OM5 in lime green

**Compliances:**

- ITU-T G651, ITU-T G652D, ITU-T G657A2
- ICEA-596
- ANSI/TIA 568.3-D
- IEC-60794, IEC-60793
- IEC-60332
- RoHS

**Applications:**

- Indoor any purpose cable distribution
- Backbone distribution cable in a building
- Multi optical fiber jumper

**Drawing:**

Note: Drawing is the 96 fibers cable as example

**Structure & Environmental Characteristics:**

|                                 |                |                                             |
|---------------------------------|----------------|---------------------------------------------|
| Fiber Core Strength Member      | Material       | Aramid Yarn                                 |
| Sheath                          | Material       | LSOH or PVC                                 |
|                                 | Colour         | Yellow, Orange, Aqua,<br>Purple, Lime green |
| Operating Temperature           | -20°C to +60°C |                                             |
| Storage / Transport Temperature | -20°C to +60°C |                                             |
| Installation Temperature        | -5°C to +50°C  |                                             |

**Mechanical Characteristics:**

| Fiber Count | Tubes | Fillers | Fiber Count | Outer Diameter (mm) | Nominal Cable Weight (kg/km) | Crush Resistance N/100mm | Tensile Load   |               |
|-------------|-------|---------|-------------|---------------------|------------------------------|--------------------------|----------------|---------------|
|             |       |         |             |                     |                              |                          | Short Term (N) | Long Term (N) |
| 24C         | 4     | 0       | 6           | 12.3±0.5            | 131                          | 660                      | 1000           | 300           |
| 36C         | 6     | 0       | 6           | 14.5±0.5            | 191                          | 660                      | 1000           | 300           |
| 48C         | 4     | 0       | 12          | 14.8±0.5            | 184                          | 1320                     | 1000           | 300           |
| 72C         | 6     | 0       | 12          | 17.5±0.5            | 273                          | 1320                     | 1000           | 300           |
| 96C         | 8     | 0       | 12          | 20.7±0.5            | 391                          | 1320                     | 1000           | 300           |
| 144C        | 12    | 2       | 12          | 24.8±0.5            | 455                          | 1320                     | 1000           | 300           |

\* Bend Radius: static (10D), dynamic (20D), "D" is cable diameter.

**Fiber Color Code:**

|                |       |       |        |        |       |      |
|----------------|-------|-------|--------|--------|-------|------|
| No. of fiber   | 1     | 2     | 3      | 4      | 5     | 6    |
| Color of fiber | White | Blue  | Orange | Green  | Brown | Gray |
| No. of fiber   | 7     | 8     | 9      | 10     | 11    | 12   |
| Color of fiber | Red   | Black | Yellow | Violet | Pink  | Aqua |

**Subunit Color Code:**

The units have sequential numbering printed on the surface for identification

**Optical Performance:**

|                                  | Wavelength    | 9/125 $\mu$ m           | 50/125 $\mu$ m        | 62.5/125 $\mu$ m      | 50/125 $\mu$ m(OM3)                | 50/125 $\mu$ m<br>(OM4/OM5)        |
|----------------------------------|---------------|-------------------------|-----------------------|-----------------------|------------------------------------|------------------------------------|
| Max. Attenuation<br>dB/km        | 850 / 1300nm  | --                      | $\leq 3.2 / \leq 1.2$ | $\leq 3.2 / \leq 1.2$ | $\leq 3.2 / \leq 1.2$              | $\leq 3.2 / \leq 1.2$              |
|                                  | 1310 / 1550nm | $\leq 0.36 / \leq 0.25$ | --                    | --                    | --                                 | --                                 |
| Minimum<br>Bandwidth<br>MHz · km | 850 / 1300nm  | --                      | 500 / 500             | 200 / 500             | 1500 / 500@LED<br>2000 / 500@Laser | 3500 / 500@LED<br>4700 / 500@Laser |

|                                  | wavelength           | 9/125 $\mu$ m           |
|----------------------------------|----------------------|-------------------------|
| Max. Attenuation (dB/km)         | 1310 / 1550nm        | $\leq 0.36 / \leq 0.22$ |
| Uncabled fibre macrobending loss | ITU-T G.657.A2 fiber |                         |
|                                  | Radius (mm)          | 10      7.5             |
|                                  | Number of turns      | 1      1                |
|                                  | Max. at 1550 nm (dB) | 0.1      0.5            |

**Ordering Information:**

Part No.            2612xyzzz

Description       Fiber Optic Indoor Cable, tight buffer with aramid yarn strength member, Multi-tube

x, mode            1: MM 62.5/125    2: SM G652D    3: MM 50/125    4: MM/OM3  
                         6: SM G657A2    9: MM/OM4    8: MM/OM5

y, outer sheath    1: PVC    2: LSOH

zzz, fiber count    024 / 036 / 048 / 072 / 096 / 144

**Packing Information:**

1. cable be wound on an iron stand-wooden composite
2. standard drum length is 2000m  $\pm$ 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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