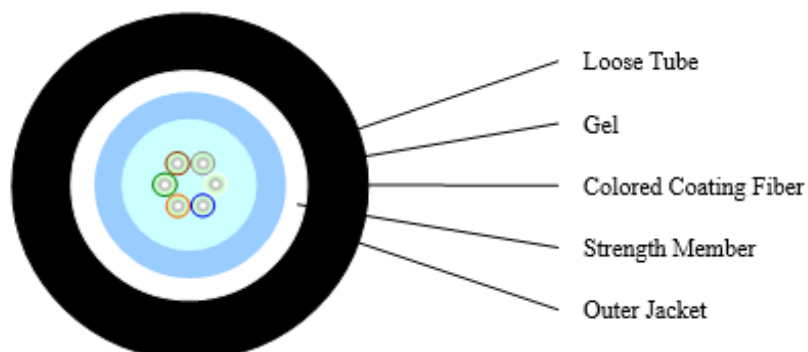




# Indoor/Outdoor Loose Tube Fiber Cables

## 6 Core Loose Tube Indoor/Outdoor SM & MM Non-Armoured Cable

### Overview



Forteq 6 Core Indoor/Outdoor Loose Tube, Glass Yarn SM & MM LSHF, Flame Retardant comply to IEC 60332-1-2, Non Armoured, Aqua, PN: IDF006M3-N

### Cable Parameters

| Items                 |           | Specifications                            |
|-----------------------|-----------|-------------------------------------------|
| Fiber Count           |           | 6                                         |
| Colored Coating Fiber | Dimension | 250 $\mu$ m $\pm$ 15 $\mu$ m              |
|                       | Color     | Blue, Orange, Green, Brown, Gray, Natural |
| Loose Tube            | Dimension | 2.0mm $\pm$ 0.1mm                         |
|                       | Material  | PBT                                       |
|                       | Color     | Natural                                   |
| Strength Member       |           | Glass Yarn                                |
| Outer Jacket          | Dimension | 5.8mm $\pm$ 0.2mm                         |
|                       | Material  | LSZH (Flame Retardant)                    |
|                       | Color     | Black                                     |

### Mechanical and Environmental Characteristics

| Items                      | Unit   | Specifications |
|----------------------------|--------|----------------|
| Tension (Long Term)        | N      | 500            |
| Tension (Short Term)       | N      | 1000           |
| Crush (Long Term)          | N/10cm | 300            |
| Crush (Short Term)         | N/10cm | 1000           |
| Min. Bend Radius (Dynamic) | mm     | 20D            |
| Min. Bend Radius (Static)  | mm     | 10D            |
| Installation Temperature   | °C     | -20 $\sim$ +60 |
| Operating Temperature      | °C     | -40 $\sim$ +70 |
| Storage Temperature        | °C     | -40 $\sim$ +70 |



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### Fiber Parameters

| No. | Items                                |        | Unit  | Specification            |                          |                          |                          |
|-----|--------------------------------------|--------|-------|--------------------------|--------------------------|--------------------------|--------------------------|
|     |                                      |        |       | G.652D                   | G657A1                   | G657A2                   | G657B3                   |
| 1   | Mode Field Diameter                  | 1310nm | μm    | 9.2±0.4                  | 9.0±0.4                  | 8.8±0.4                  | 8.9±0.4                  |
|     |                                      | 1550nm | μm    | 10.4±0.5                 | 10.1±0.5                 | 9.8±0.5                  | 9.65±0.5                 |
| 2   | Cladding Diameter                    |        | μm    | 124.8±0.7                | 124.8±0.7                | 124.8±0.7                | 124.8±0.7                |
| 3   | Cladding Non-Circularity             |        | %     | ≤0.7                     | ≤0.7                     | ≤0.7                     | ≤0.7                     |
| 4   | Core-Cladding Concentricity Error    |        | μm    | ≤0.5                     | ≤0.5                     | ≤0.5                     | ≤0.5                     |
| 5   | Coating Diameter                     |        | μm    | 245±5                    | 245±5                    | 245±5                    | 245±5                    |
| 6   | Coating Non-Circularity              |        | %     | ≤6.0                     | ≤6.0                     | ≤6.0                     | ≤6.0                     |
| 7   | Cladding-Coating Concentricity Error |        | μm    | ≤12.0                    | ≤12.0                    | ≤12.0                    | ≤12.0                    |
| 8   | Cable Cutoff Wavelength              |        | nm    | $\lambda_{cc} \leq 1260$ | $\lambda_{cc} \leq 1260$ | $\lambda_{cc} \leq 1260$ | $\lambda_{cc} \leq 1260$ |
| 9   | Attenuation (max.)                   | 1310nm | dB/km | ≤0.4                     | ≤0.4                     | ≤0.4                     | ≤0.4                     |
|     |                                      | 1550nm | dB/km | ≤0.3                     | ≤0.3                     | ≤0.3                     | ≤0.3                     |

| No. | Items                                |        | Unit   | Specification |           |           |           |
|-----|--------------------------------------|--------|--------|---------------|-----------|-----------|-----------|
|     |                                      |        |        | OM1           | OM2       | OM3       | OM4       |
| 1   | Core Diameter                        |        | μm     | 62.5±2.5      | 50.0±2.5  | 50.0±2.5  | 50.0±2.5  |
| 2   | Cladding Diameter                    |        | μm     | 125.0±1.0     | 124.8±1.0 | 125.0±1.0 | 125.0±1.0 |
| 3   | Cladding Non-Circularity             |        | %      | ≤1.0          | ≤1.0      | ≤1.0      | ≤1.0      |
| 4   | Core-Cladding Concentricity Error    |        | μm     | ≤1.0          | ≤1.0      | ≤1.0      | ≤1.0      |
| 5   | Coating Diameter                     |        | μm     | 245±5         | 245±5     | 245±5     | 245±5     |
| 6   | Coating Non-Circularity              |        | %      | ≤6.0          | ≤6.0      | ≤6.0      | ≤6.0      |
| 7   | Cladding-Coating Concentricity Error |        | μm     | ≤12.0         | ≤12.0     | ≤12.0     | ≤12.0     |
| 8   | Bandwidth (min.)                     | 850nm  | MHz·km | 200           | 200       | 1500      | 3500      |
|     |                                      | 1300nm | MHz·km | 500           | 500       | 500       | 500       |
| 9   | Attenuation (max.)                   | 850nm  | dB/km  | ≤3.0          | ≤3.0      | ≤3.0      | ≤3.0      |
|     |                                      | 1300nm | dB/km  | ≤1.0          | ≤1.0      | ≤1.0      | ≤1.0      |