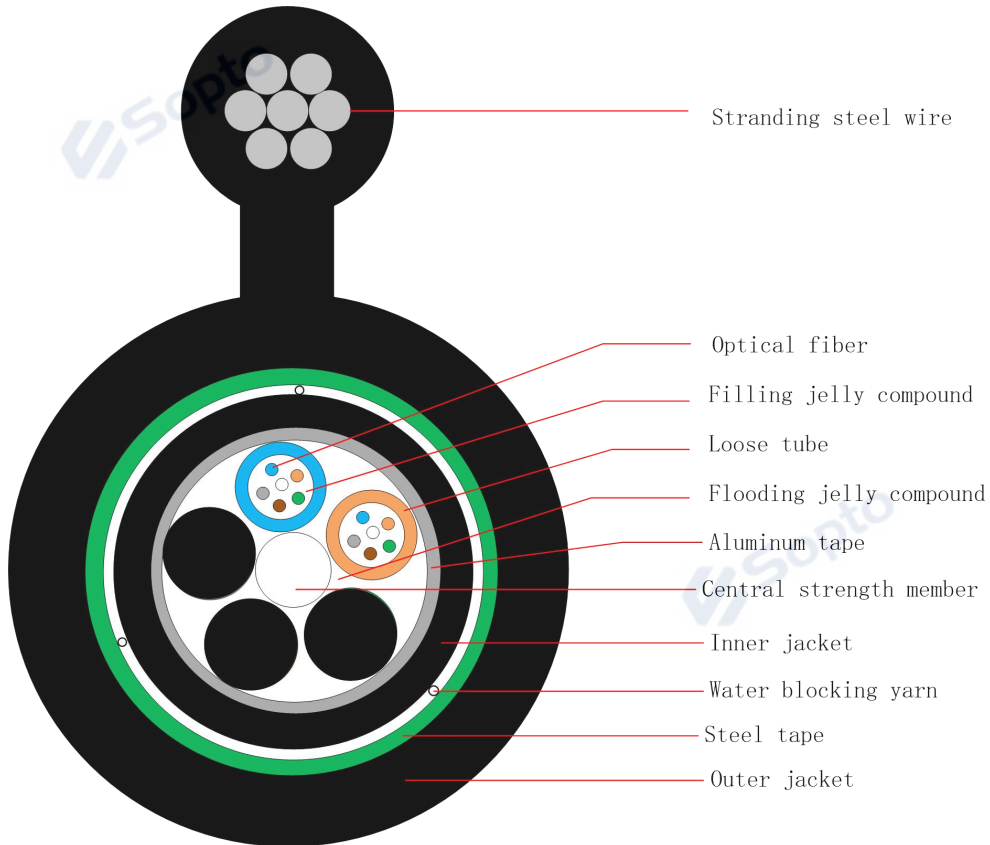


GYFTC8A53

Cross Section of Cable



Optical Fiber Type and Properties

| Item | Unit | Specification |
|-----------------------------------|---------------|------------------------------|
| Fiber Type | | G.652 |
| Mode field diameter | 1310nm | 9.2 ± 0.4 μm |
| | 1550nm | 10.4 ± 0.8 μm |
| Cladding diameter | μm | 125.0 ± 1 |
| Cladding non-circularity | % | ≤ 1.0 |
| Core/cladding concentricity error | μm | ≤ 0.5 |

| | | | |
|--------------------------------------|--------|---------------|-------------|
| Coating diameter | | μm | 242 ± 7 |
| Coating/cladding concentricity error | | μm | ≤ 12 |
| Cable cut-off wavelength | | nm | ≤ 1260 |
| Attenuation Coefficient | 1310nm | dB/km | ≤ 0.36 |
| | 1550nm | dB/km | ≤ 0.22 |
| Proof stress level | | kpsi | ≥ 100 |

Note: Other parameters meet standard ITU-T G.652

Dimensions of Cable Constructions

| Fiber count | Structure | Fibers per tube | Loose tube diameter (mm) | CSM diameter /pad diameter (mm) | Thickness of inner jacket (mm) | Thickness of outer jacket (mm) | Cable diameter/ Height (mm) | Cable Weight (kg/km) |
|-------------|-----------|-----------------|--------------------------|---------------------------------|--------------------------------|--------------------------------|-------------------------------|----------------------|
| 4 | 1+5 | 4 | 1.7 ± 0.1 | 1.5/1.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $12.5 \pm 0.5 / 19.5 \pm 0.8$ | 205 |
| 6 | 1+5 | 6 | 1.7 ± 0.1 | 1.5/1.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $12.5 \pm 0.5 / 19.5 \pm 0.8$ | 205 |
| 8 | 1+5 | 4 | 1.7 ± 0.1 | 1.5/1.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $12.5 \pm 0.5 / 19.5 \pm 0.8$ | 205 |
| 12 | 1+5 | 6 | 1.7 ± 0.1 | 1.5/1.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $12.5 \pm 0.5 / 19.5 \pm 0.8$ | 205 |
| 24 | 1+5 | 6 | 1.7 ± 0.1 | 1.5/1.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $12.5 \pm 0.5 / 19.5 \pm 0.8$ | 206 |
| 36 | 1+6 | 6 | 1.7 ± 0.1 | 1.8/1.8 | 1.0 ± 0.1 | 1.7 ± 0.1 | $12.8 \pm 0.5 / 19.8 \pm 0.8$ | 215 |
| 48 | 1+5 | 12 | 2.0 ± 0.1 | 1.5/1.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $13.2 \pm 0.5 / 20.2 \pm 1.0$ | 222 |
| 72 | 1+6 | 12 | 2.0 ± 0.1 | 2.0/2.0 | 1.0 ± 0.1 | 1.7 ± 0.1 | $13.8 \pm 0.5 / 20.9 \pm 1.0$ | 239 |
| 96 | 1+8 | 12 | 2.0 ± 0.1 | 2.6/3.5 | 1.0 ± 0.1 | 1.7 ± 0.1 | $15.4 \pm 0.5 / 22.5 \pm 1.0$ | 280 |

Cable Performance

| Item | | Parameters |
|---------------------|--|-------------------------------|
| Loose tube | Material | PBT |
| | Color | Full color spectrum |
| Filler | Material | PE |
| | Color | Black |
| CSM | Material | FRP |
| Messenger wire | Thickness | $1.0 \pm 0.1 \text{ mm}$ |
| | Diameter | $5.0 \pm 0.2 \text{ mm}$ |
| | Stranding steel wire | 1.0mm*7 |
| Inner armoured | Material | Plastic coated aluminum strip |
| Inner jacket | Material | HDPE |
| | Color | Black |
| Outer armoured | Material | Plastic coated steel strip |
| Outer jacket | Material | HDPE |
| | Color | Black |
| Min. bending radius | Static | 12.5 times cable diameter |
| | Dynamic | 25 times cable diameter |
| Repeating bending | Load: 250N; number of cycles: 30, no obvious addition attention, no fiber break and no cable damage. | |
| Tensile performance | Short term | 3000N |
| Crush | Short term | 3000N/100mm |
| Torsion | Load: 250N; number of cycles:10; twist angle: $\pm 180^\circ$ No obvious addition attention, no fiber break and no cable damage. | |

Working Condition



| Item | Standard | Parameters |
|-----------------------|------------------|---|
| Operation temperature | IEC 60794-1-2 F1 | -20℃~+60℃ |
| Water penetration | IEC 60794-1-2-F5 | Water level: 1m ,sample: 3m, After 24h, no water ingress. |

Drum

| Cable type | Drum | | | | |
|----------------|-------------|------------|---------------------|-------------|----------------|
| | Height (mm) | Width (mm) | Inner diameter (mm) | Length (km) | Drum type |
| GYFTC8A53-4B1 | 1150 | 760 | 450 | 2 | Iron wood tray |
| GYFTC8A53-6B1 | 1150 | 760 | 450 | 2 | Iron wood tray |
| GYFTC8A53-8B1 | 1150 | 760 | 450 | 2 | Iron wood tray |
| GYFTC8A53-12B1 | 1150 | 760 | 450 | 2 | Iron wood tray |
| GYFTC8A53-24B1 | 1150 | 760 | 450 | 2 | Iron wood tray |
| GYFTC8A53-36B1 | 1150 | 760 | 450 | 2 | Iron wood tray |
| GYFTC8A53-48B1 | 1200 | 760 | 500 | 2 | Iron wood tray |
| GYFTC8A53-72B1 | 1250 | 760 | 500 | 2 | Iron wood tray |
| GYFTC8A53-96B1 | 1350 | 760 | 500 | 2 | Iron wood tray |

Designer: Wang Yingli 2018/02/12

Approver: Yu Wenshuang 2018/02/12

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