

# STRANDED LOOSE TUBE NON-METALLIC STRENGTH MEMBER CABLE (GYFTY)

Technical Product Datasheet & Specifications

## PRODUCT DESCRIPTION

The structure of **GYFTY** optical cable is formed by inserting 250μm optical fibers into a loose tube made of high-modulus material, filled with a waterproof compound. The center of the cable core is a non-metallic Fiber Reinforced Plastic (FRP) central strength member. The loose tubes (and filler rods) are stranded around the central strength member into a compact and circular cable core, which is then extruded with a Polyethylene (PE) outer sheath to complete the cable structure.

## PRODUCT FEATURES

- Excellent mechanical and temperature performance.
- Loose tube material features good hydrolysis resistance and high strength.
- Special tube filling jelly provides critical protection for the optical fibers.
- Specially designed compact cable structure effectively prevents loose tube retraction.
- Good crush resistance and flexibility.
- Flame-retardant version (GYFTZY) is customizable.

## PRODUCT SPECIFICATIONS

| Cable Model | Fiber Count | Tube Count | Filler Count | Cable Diameter (mm) | Cable Weight (kg/km) | Allowable Tensile Force (N) |            | Allowable Crush Resistance (N/100mm) |            | Bending Radius (mm) |         |
|-------------|-------------|------------|--------------|---------------------|----------------------|-----------------------------|------------|--------------------------------------|------------|---------------------|---------|
|             |             |            |              |                     |                      | Long Term                   | Short Term | Long Term                            | Short Term | Static              | Dynamic |
| GYFTY-4Xn   | 4           | 1          | 4            | 9.0                 | 88                   | 800                         | 1500       | 500                                  | 1000       | 15D                 | 30D     |
| GYFTY-12Xn  | 12          | 2          | 3            | 9.0                 | 88                   | 800                         | 1500       | 500                                  | 1000       | 15D                 | 30D     |
| GYFTY-24Xn  | 24          | 4          | 1            | 9.0                 | 88                   | 800                         | 1500       | 500                                  | 1000       | 15D                 | 30D     |
| GYFTY-48Xn  | 48          | 5          | 0            | 9.0                 | 88                   | 800                         | 1500       | 500                                  | 1000       | 15D                 | 30D     |
| GYFTY-96Xn  | 96          | 8          | 0            | 10.5                | 120                  | 1500                        | 2500       | 500                                  | 1000       | 15D                 | 30D     |
| GYFTY-144Xn | 144         | 12         | 0            | 13.0                | 150                  | 1500                        | 2500       | 500                                  | 1000       | 15D                 | 30D     |

**Note:** The above data is for reference only; Cable storage and operating temperature range: -40°C to +70°C.

## COMPLIANCE & STANDARDS

**Product Standard:** Manufactured by **Dongguan Huihong Fiber Optic Cable Co., Ltd.**, GYFTY optical cables strictly comply with **YD/T 901** and **IEC 60794-1** standards.