

# Product Specifications

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## *Stranded Loose Tube Non-metallic Strength Member Armored Cable(GYTY53)*

### Standard

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Reference with standard YD/T 901-2009 as well as IEC 60794-1



### Description

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GYTY 53 optical cable is constructed by sheathing 250  $\mu\text{m}$  optical fiber into a loose tube made of high modulus material, and filling the loose tube with waterproof compound. The center of the cable core is a metal reinforcing core. For some optical cables with core numbers, a layer of polyethylene (PE) should be extruded outside the metal reinforced core. Loose sleeves (and fillers) are twisted around the central reinforcing core to form a compact and round cable core. The gap in the cable core is filled with water blocking filler.

The cable core is extruded with a layer of polyethylene inner sheath, and the double-sided plastic coated steel belt (PSP) is longitudinally coated and extruded with polyethylene sheath to form the cable.

Applicable: pipes, Overhead and directly buried

### Characteristics

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- 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;

The following measures are taken to ensure the cable watertight:

- Single Fiber Reinforced Plastic as the central strength member;
- Loose tube filling compound;
- 100% cable core filling

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## Technical parameters

| Cable Type(Increlased by 2 fibers) | Fiber Count | Tubes | Fillers | Cable Diameter mm | Cable Weight Kg/km | Tensile Strength Long/short term N | Crush Resistance Long/short term N/100mm | Bending Radiu Dyna mic/Static mm |
|------------------------------------|-------------|-------|---------|-------------------|--------------------|------------------------------------|--|----------------------------------|
| GYTY53-2-6                         | 2-6         | 1     | 4       | 10.3              | 114                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-8-12                        | 8-12        | 2     | 3       | 10.3              | 114                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-14-18                       | 14-18       | 3     | 2       | 10.3              | 114                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-20-24                       | 20-24       | 4     | 1       | 10.3              | 114                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-26-30                       | 26-30       | 5     | 0       | 10.3              | 114                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-32-36                       | 32-36       | 6     | 0       | 10.6              | 123                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-38-48                       | 38-48       | 4     | 1       | 10.9              | 125                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-50-60                       | 50-60       | 5     | 0       | 10.9              | 125                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-62-72                       | 62-72       | 6     | 0       | 11.4              | 143                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-74-84                       | 74-84       | 7     | 1       | 12.6              | 162                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-86-96                       | 86-96       | 8     | 0       | 12.6              | 162                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-98-108                      | 98-108      | 9     | 1       | 13.8              | 190                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-110-120                     | 110-120     | 10    | 0       | 13.8              | 190                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-122-132                     | 122-132     | 11    | 1       | 15.2              | 225                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |
| GYTY53-134-144                     | 134-144     | 12    | 0       | 15.2              | 225                | 1000/3000                          | 1000/3000                                | 25D/12.5D                        |