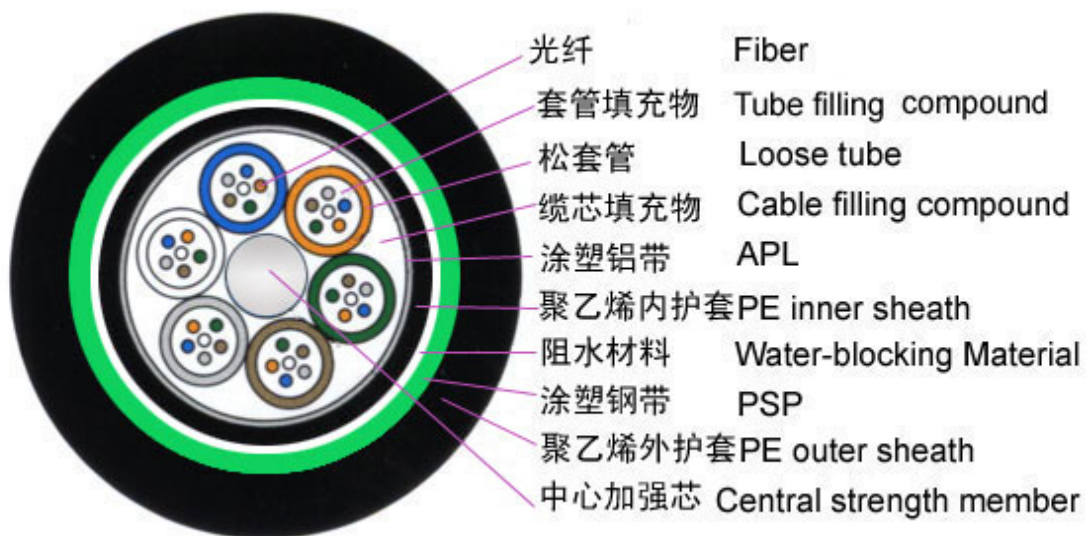


GYTA53 Armored cable for direct buried

(GYTA53)

Stranded Loose Tube Armored Cable



• Description

The fibers, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum Polyethylene Laminate (APL) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then the cable core is covered with a thin PE inner sheath. After the PSP is longitudinally applied over the inner sheath, the cable is completed with a PE outer sheath.

• Characteristics

- 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:
 - Steel wire used as the central strength member
 - Loose tube filling compound
 - 100% cable core filling
 - APL moisture barrier
 - PSP enhancing moisture-proof
 - Water-blocking material

Standards

GYTY53 cable complies with Standard YD/T 901-2001 as well as IEC 60794-1.

Optical Characteristics

| | | G. 652 | G. 655 | 50/125 μ m | 62.5/125 μ m |
|--|---------|----------------------|----------------------|-------------------------|------------------------|
| Attenuation (+20 $^{\circ}$ C) | @850nm | | | ≤ 3.0 dB/km | ≤ 3.0 dB/km |
| | @1300nm | | | ≤ 1.0 dB/km | ≤ 1.0 dB/km |
| | @1310nm | ≤ 0.36 dB/km | ≤ 0.40 dB/km | | |
| | @1550nm | ≤ 0.22 dB/km | ≤ 0.23 dB/km | | |
| (A 级) Bandwidth (Class A) | @850nm | | | ≥ 500 MHz · km | ≥ 200 MHz · km |
| | @1300nm | | | ≥ 1000 MHz · km | ≥ 600 MHz · km |
| Numerical Aperture | | | | 0.200 ± 0.015 NA | 0.275 ± 0.015 NA |
| Cable Cut-off Wavelength λ_{cc} | | ≤ 1260 nm | ≤ 1480 nm | | |

Technical Parameters

| Cable Type | Fiber Count | Tubes | Fillers | Cable Diameter mm | Cable Weight kg/km | Tensile Strength Long/Short Term N | Crush Resistance | Bending Radius |
|------------------|-------------|-------|---------|----------------------|-----------------------|--|-------------------------------|--------------------------|
| | | | | | | | Long/Short Term N/100mm | Static /Dynamic mm |
| GYTA53-2~6 芯 | 2~6 | 1 | 5 | 14.5 | 209 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-8~12 芯 | 8~12 | 2 | 4 | 14.5 | 209 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-14~18 芯 | 14~18 | 3 | 3 | 14.5 | 209 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-20~24 芯 | 20~24 | 4 | 2 | 14.5 | 209 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-26~30 芯 | 26~30 | 5 | 1 | 14.5 | 209 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-32~36 芯 | 32~36 | 6 | 0 | 14.5 | 209 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-38~48 芯 | 38~48 | 4 | 1 | 15.4 | 234 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-50~60 芯 | 50~60 | 5 | 0 | 15.4 | 234 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-62~72 芯 | 62~72 | 6 | 0 | 15.9 | 244 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-74~84 芯 | 74~84 | 7 | 1 | 18.0 | 297 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-86~96 芯 | 86~96 | 8 | 0 | 18.0 | 297 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-98~108 芯 | 98~108 | 9 | 1 | 19.4 | 338 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-110~120 芯 | 110~120 | 10 | 0 | 19.4 | 338 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-122~132 芯 | 122~132 | 11 | 1 | 21.3 | 392 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-134~144 芯 | 134~144 | 12 | 0 | 21.3 | 392 | 1000/3000 | 1000/3000 | 10D/20D |
| GYTA53-146~216 芯 | 146~216 | | | 21.3 | 395 | 1000/3000 | 1000/3000 | 10D/20D |

Storage/Operating Temperature : -40℃ to + 70℃