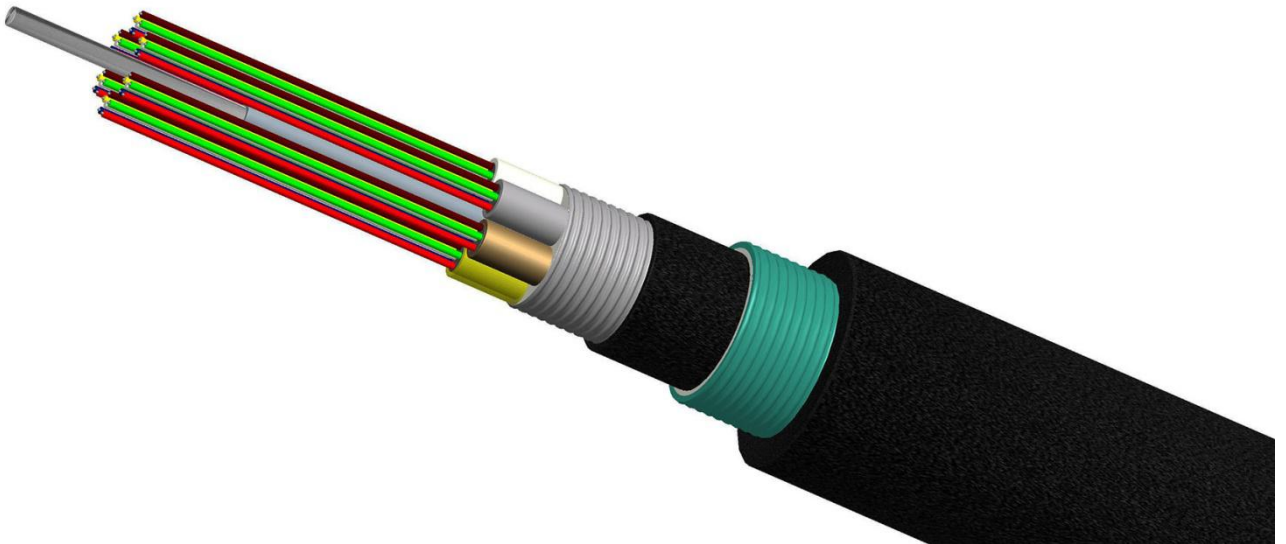




**Stranded Loose Tube Armored Cable (GYTA53)**



**Shenzhen Optostar Optoelectronics Co., Ltd**

**2013. 02(Version 2)**

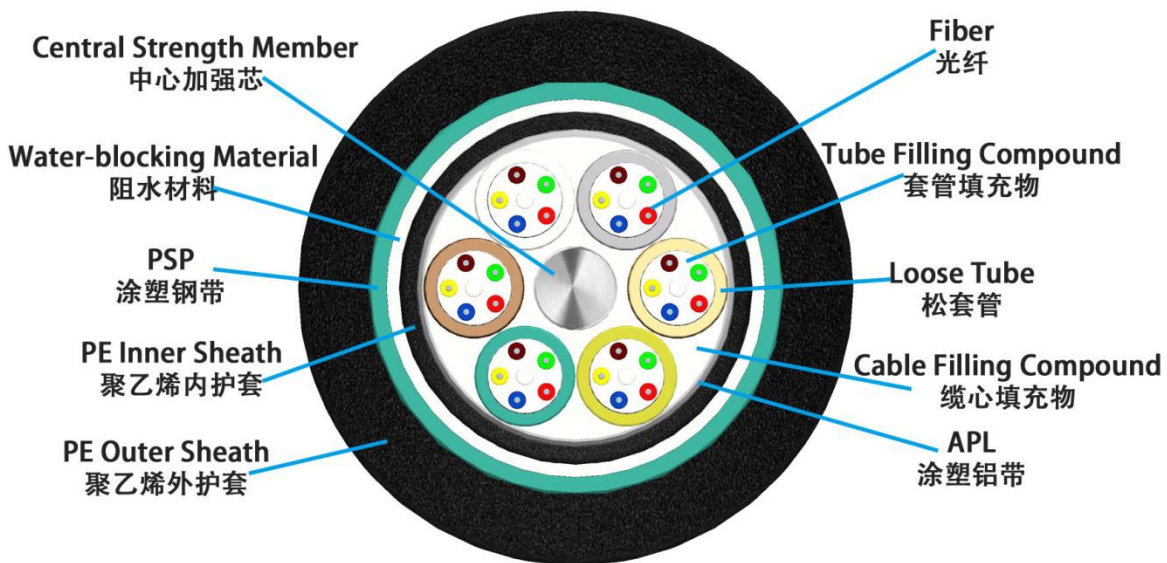
### Overview

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.

### Product Features

- 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;
- Standards: GYTA53 cable complies with Standard YD/T 901-2001as well as IEC 60794-1;
- 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

### Product Structure



**Optical Characteristics**

		G.652	G.655	50/125μm	62.5/125μm
Attenuation (+20°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	≤ 0.23dB/km		
Bandwidth (Class A)	@850nm			≥500 MHz · km	≥200 MHz · km
	@1300nm			≥1000 MHz · km	≥600 MHz · km
Numerical Aperture				0.200± 0.015NA	0.275± 0.015NA
Cable Cut-off Wavelength λ <sub>cc</sub>		≤1260nm	≤1480nm		

**Technical Parameters**

Cable Type	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 Radius Static /Dynamic mm
GYTA53-2~6	2~6	1	5	14.5	209	1000/3000	1000/3000	10D/20D
GYTA53-8~12	8~12	2	4	14.5	209	1000/3000	1000/3000	10D/20D
GYTA53-14~18	14~18	3	3	14.5	209	1000/3000	1000/3000	10D/20D
GYTA53-20~24	20~24	4	2	14.5	209	1000/3000	1000/3000	10D/20D
GYTA53-26~30	26~30	5	1	14.5	209	1000/3000	1000/3000	10D/20D
GYTA53-32~36	32~36	6	0	14.5	209	1000/3000	1000/3000	10D/20D

GYTA53-38~48	38~48	4	1	15.4	234	1000/3000	1000/3000	10D/20D
GYTA53-50~60	50~60	5	0	15.4	234	1000/3000	1000/3000	10D/20D
GYTA53-62~72	62~72	6	0	15.9	244	1000/3000	1000/3000	10D/20D
GYTA53-74~84	74~84	7	1	18.0	297	1000/3000	1000/3000	10D/20D
GYTA53-86~96	86~96	8	0	18.0	297	1000/3000	1000/3000	10D/20D
GYTA53-98~108	98~108	9	1	19.4	338	1000/3000	1000/3000	10D/20D
GYTA53-110~120	110~120	10	0	19.4	338	1000/3000	1000/3000	10D/20D
GYTA53-122~132	122~132	11	1	21.3	392	1000/3000	1000/3000	10D/20D
GYTA53-134~144	134~144	12	0	21.3	392	1000/3000	1000/3000	10D/20D
GYTA53-146~216	146~216			21.3	395	1000/3000	1000/3000	10D/20D

Storage/Operating Temperature : -40°C to + 70°C

### Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of OPTOSTAR or others. Further details are available from any OPTOSTAR sales representative.

## Contact OPTOSTAR

### Shenzhen Optostar Optoelectronics Co., Ltd

Address:A-14,Haide Building,the Intersection of Nanxin Road and Haide Second Road Nanshan District Shenzhen,China .



Tel: +86-755-26400198 +86-755-26400288 Fax: +86-755-26411001

Email: [info@optostar.com.cn](mailto:info@optostar.com.cn)

Skype:ouyangroya

Web: [www.optostar.com.cn](http://www.optostar.com.cn)