



## Description

The fibers, 250 $\mu$ m, 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 is completed with a PE 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
- Specially designed compact structure is good at preventing loose tubes from shrinking
- PE sheath protects cable from ultraviolet radiation

- 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

## Standards

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

## Optical Characteristics

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

## Technical Parameters

Cable Type	Fiber Count	Tubes	Fillers	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N/100mm	Bending Radius
								Static/Dynamic mm
GYTA-2~6	2~6	1	4	9.7	90	600/1500	300/1000	10D/20D
GYTA-8~12	8~12	2	3	9.7	90	600/1500	300/1000	10D/20D
GYTA-14~18	14~18	3	2	9.7	90	600/1500	300/1000	10D/20D
GYTA-20~24	20~24	4	1	9.7	90	600/1500	300/1000	10D/20D
GYTA-26~30	26~30	5	0	9.7	90	600/1500	300/1000	10D/20D
GYTA-32~36	32~36	6	0	10.2	104	1000/3000	300/1000	10D/20D
GYTA-38~48	38~48	4	1	11.0	117	1000/3000	300/1000	10D/20D
GYTA-50~60	50~60	5	0	11.0	117	1000/3000	300/1000	10D/20D
GYTA-62~72	62~72	6	0	11.5	126	1000/3000	300/1000	10D/20D
GYTA-74~84	74~84	7	1	13.4	154	1000/3000	300/1000	10D/20D
GYTA-86~96	86~96	8	0	13.4	154	1000/3000	300/1000	10D/20D

Storage/Operating Temperature : -40 $^{\circ}$ C to + 70 $^{\circ}$ C