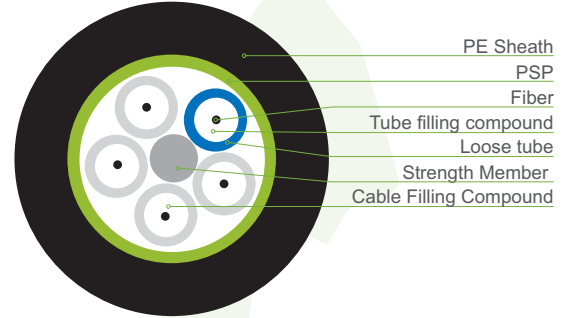


PRODUCT DATA SHEET

Stranded Loose Tube Cable with Steel Tape (GYTS)



Fig 1



Introduction

In the Nitrotel GYTS cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fiber count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core, and the PSP is longitudinally applied around the cable core before a HDPE sheath is extruded over it.

Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYTS-2~30Xn	2~30	5	6	9.8	108	600/1500	300/1000
NT-GYTS-32~36Xn	32~36	6	6	10.4	129	600/1500	300/1000
NT-GYTS-38~60Xn	38~60	5	12	10.6	132	600/1500	300/1000
NT-GYTS-62~72Xn	62~72	6	12	12.1	161	600/1500	300/1000
NT-GYTS-74~96Xn	74~96	8	12	13.6	198	600/1500	300/1000
NT-GYTS-98~120Xn	98~120	10	12	15.4	260	600/1500	300/1000
NT-GYTS-122~144Xn	122~144	12	12	17.2	286	600/1500	300/1000

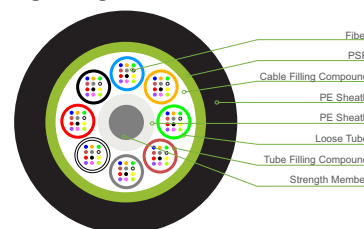
Note:
1.Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fiber and tube is specified in color identification table.
3.The normal PE sheath thickness is 1.8mm.

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent crush resistance and flexibility
- Excellent ultraviolet prevention with PE sheath
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - PSP moisture barrier
- Application: Duct/Aeria

Temperature requirement	Operation	-40°C~+70°C
	Installation	-10°C~+70°C
	Storage/transportation	-40°C~+70°C
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	10 times of outer diameter
	Dynamic	20 times of outer diameter

Fig 2: High Fiber Count Cable



Order Information (Part Number)

NT-GYTS-XXS

Fiber Count	06
	12
	24
	36
	48
	72
	96
	144

