

NCTS-GYTC8S

Outdoor Self-supporting Stranded tubes

Light-armored fiber optic cable

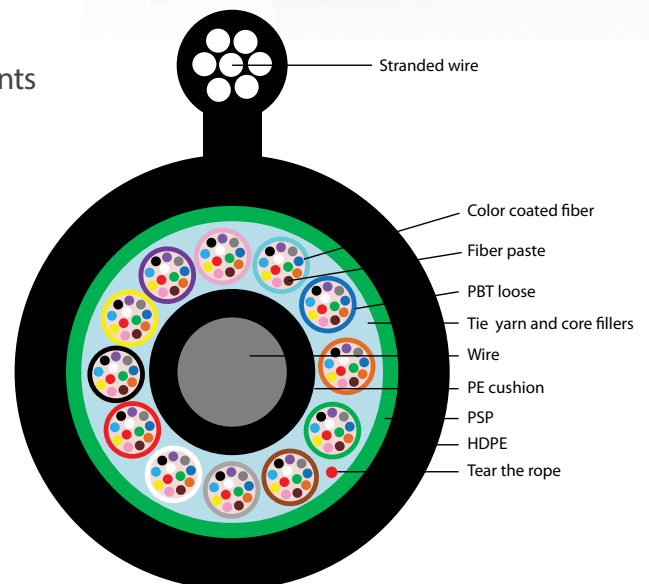
24 - 144 cores

Description

The optical fiber 250μm(24~144cores) 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. The steel tape(PSP) is longitudinally applied over the cable core, which is filled with the filling compound to protect it from water ingress. A self-supporting messenger (stranded wires 7*1.0mm) is applied on the side. Then, the cable is completed with a PE sheath.

Characteristics

- Application: Self-supporting
- High tensile strength of stranded wires meets the requirements of self-supporting and reduce the installation cost
- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Special designed compact structure is good at preventing loose tube from shrinking
- Crush resistance and flexibility
- PSP enhancing moisture-proof



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Technical Specifications

Model: NCTS-GYTC8S

Technical parameter

Fiber counts	24	36	48	144	Attenuation Max.	1310nm	dB/km	≤0.36
Fiber type	G.652D	G.652D	G.652D	G.652D		1550nm		≤0.22
PBT tube qty.	4	6	4	12	Bending radius	Statistic	mm	10D
Fibers/Tube	6	6	12	12		Dynamic		20D
Strength member	1.4mm steel wire	1.8mm steel wire	1.8mm steel wire	2.0/5.8mm steel wire	Temperature	installation	°C	-15~+60
Messenger	7*1.0mm steel wires	7*1.0mm steel wires	7*1.0mm steel wires	7*1.0mm steel wires		Storage and transportation		-20~+60
Outer sheath	PE	PE	PE	PE		Working		-20~+60
Cable O.D.	8.9*16.9±1.0mm	9.3*17.3±1.0mm	9.6*17.6±1.0mm	14.1*22.1±1.0mm	Tensile	Long term	N	600
						Short term		1500
					Crush	Long term	N/10cm	300
						Short term		1000

G.652d Fiber

Geometric features	cladding diameter μm		125.0±0.8
	Cladding roundness %		≤1.0
	Coating diameter μm		245±10
	Coating/cladding concentricity error μm		≤12
	Coating roundness %		≤6
	Core/cladding concentricity error μm		≤0.5
optical properties	The mode field diameter	1310nm	8.8±0.4μm
		1550nm	9.8±0.6μm
	attenuation dB/km	1310nm	≤0.36
		1550nm	≤0.22
	Cutoff wavelength nm		≤1260