

Fiber optics cable, armored with steel tape, self supporting, with messenger, outdoor, PE

Product Code: [LAN-OFC-GYXTC8Snnyy1](#)

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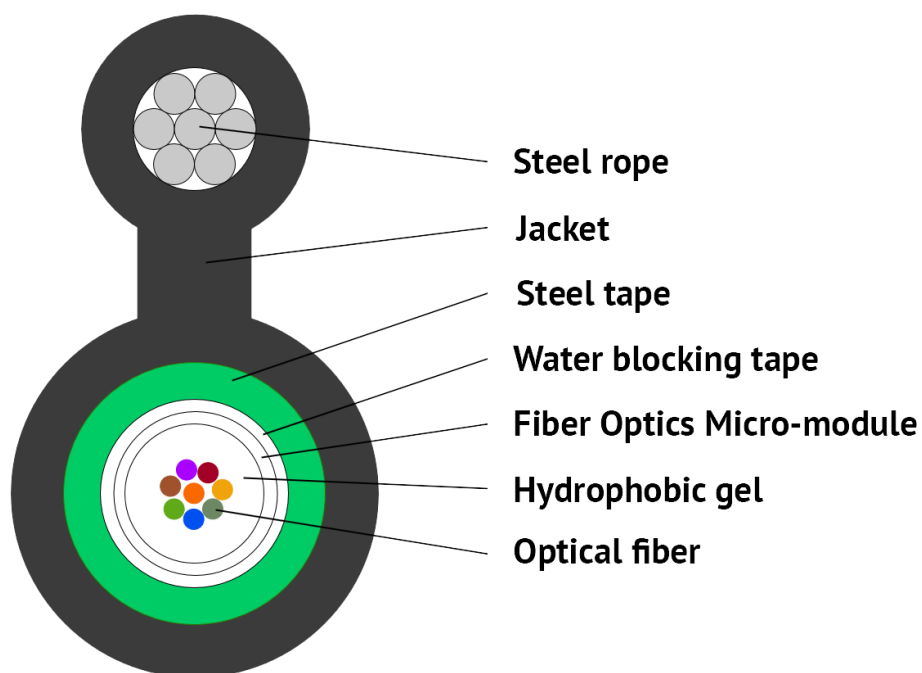


Description

Application:

Used as a distribution cable for suspension on the utility poles, electricity pylons and between buildings.

Design:



The cable contains a central optical module with loosely laid fibers. The free space in the optical module is filled with a hydrophobic filler. Fiber optics module is covered with water blocking tape and steel tape. Steel rope is used as the messenger. The fiber optics module and the messenger member are covered with a jacket from middle density polyethylene.

The maximum possible count of optical fibers in the cable is 24.

Color identification of tight buffer optical fibers

№	Fibers 1-12	№	Fibers 13-24
1	Blue	13	Blue + mark
2	Orange	14	Orange + mark
3	Green	15	Green + mark
4	Brown	16	Brown + mark
5	Grey	17	Grey + mark
6	White	18	White + mark
7	Red	19	Red + mark
8	Black	20	Black + mark
9	Yellow	21	Yellow + mark
10	Violet	22	Violet + mark
11	Pink	23	Pink + mark
12	Aqua	24	Aqua + mark

Weight and Dimensions

Fiber count	2~8	10~12	14~24
Messenger	Material	Steel rope	
	Diameter (± 0.05) mm	2.7 mm (0.9x7)	
Fiber Optics Module	Material	Polybutylene terephthalate / PBT	
	Diameter (± 0.06) mm	1.8	2.0
	Thickness (± 0.03) mm	0.30	0.32
	Maximum fiber count per module	2~8	10~12
Armor	Material	Steel tape	
	Thickness (± 0.03) mm	0.25	
Jacket	Material	Middle Density Polyethylene MDPE	
	Thickness (± 0.2) mm	1.3-1.5	
Cable diameter (± 0.5) mm	6.3 x 14.6	6.5 x 14.8	7.1 x 15.4
Cable weight ± 10 kg/km	88	96	103

Operating conditions

Minimum Bend Radius	Without pulling tension	10 cable diameters
	With maximum pulling tension	20 cable diameters
Temperature range $^{\circ}\text{C}$	Installation	-20~+60
	Storage	-40~+70
	Operating	-40~+70

Physical specifications

№	Specification	Value
1	Maximum pulling tension	Short term impact 2700 N Long term impact 800 N
2	Crush resistance	Short term impact 1000 (N/100mm) Long term impact 300 (N/100m)

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Description
FO cable, armored with steel tape, with messenger,
GYXTC8S, PE, outdoor, **nn** x OS2
Ultra/OS2/OM1/OM2/OM3/OM4

nn – fiber count

yy – fiber type (SU, S2, S5, S7, M1, M2, M3, M4)

k =1 maximum pulling tension: 0.8 kN

Applicable optical fibers:

SU	Single-mode fiber with extended operating wavelength and reduced attenuation and low bending loss (ITU G.652D+G.657.A1 recommendation)
S2	Single-mode fiber with an extended bandwidth of operating wavelengths (ITU-T G.652D recommendation)Single-mode fiber with an extended bandwidth of operating wavelengths (ITU-T G.652D recommendation)
S5	Single-mode positive non-zero dispersion shifted fiber (ITU-T G.655 recommendation)
S7	Single-mode with low bending loss (ITU-T G.657 recommendation)
M1	Multi-mode with core to cladding ratio 62,5/125 µm (IEC 60793-2-10 A1b type recommendation)
M2	Multi-mode with core to cladding ratio 50/125 µm (ITU-T G.651 recommendation and IEC 60793-2-10 type A1a.1 requirements)
M3	Multi-mode with low bending loss and core to cladding ratio 50/125 µm (ITU-T G.651 recommendation and IEC 60793-2-10 A1a.2 type requirements)
M4	Single-mode fiber with extended operating wavelength and reduced attenuation and low bending loss (ITU G.652D+G.657.A1 recommendation)

Model range

LAN-OFC-GYXTC8S04S21	FO Cable, armored with steel tape, self supporting, with a messenger, GYXTC8S, PE, outdoor, 4 x OS2
LAN-OFC-GYXTC8S08S21	FO Cable, armored with steel tape, self supporting, with a messenger, GYXTC8S, PE, outdoor, 8 x OS2

Product descriptions are listed according to the available information at the time of publication. Product specifications can be changed without advanced notification. More detailed and exact information can be obtained from the official partners and distributors of LANMASTER.