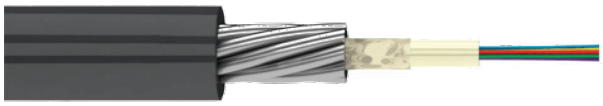
Паспорт изделия

GYXTZY type armored cable, indoor/outdoor, нг(A)-HF jacket

Product Code: LAN-OFC-GYXTZYxxyyk

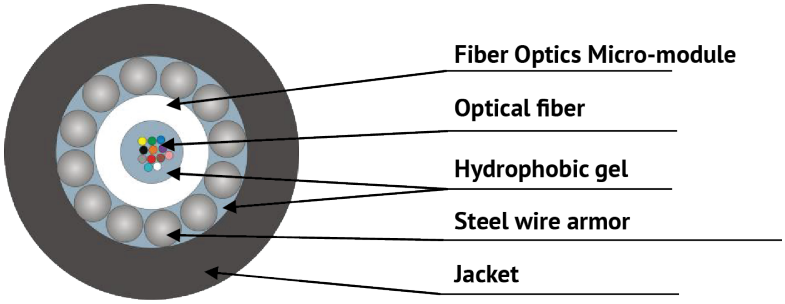
GYXTZY type armored cable, indoor/outdoor, нг(A)-HF jacket



Description

Used for laying in the ground, including swamps and shallow non-navigable rivers, cabling in cable ducts, pipes, trays, tunnels, collectors, over bridges and overpasses, between buildings, and inside 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 gel. Steel wire armor is spirally covered over the central optical module. The free space between the wires is filled with a hydrophobic gel. The armor is covered with a jacket made a flame retardant, halogen free, low smoke emission, resistant to UV radiation polymer composition.

Color identification of buffered optical fibers

№	Fibers 1-12	№	Fibers 13-24
1	Blue	13	Blue + 1 ring

2	Orange	14	Orange + 1 ring
3	Green	15	Green + 1 ring
4	Brown	16	Brown + 1 ring
5	Grey	17	Grey + 1 ring
6	White	18	White + 1 ring
7	Red	19	Red + 1 ring
8	Black	20	Black + 1 ring
9	Yellow	21	Yellow + 1 ring
10	Violet	22	Violet + 1 ring
11	Pink	23	Pink + 1 ring
12	Turquoise	24	Turquoise + 1 ring

Cables are classified into 2 types according to maximum pulling tension (type 1 – 2.7 kN; type 2 - 7 kN)

Weight and Dimensions

Fiber count in the cable	Up to 16	Up to 24
	Cable with maximum pulling tension - 7 kN	
Cable diameter, mm	9,5	9,7
Cable weight, kg/km	180,9	183,8
	Cable with maximum pulling tension – 2.7 kN	
Cable diameter, mm	8,0	8,3
Cable weight, kg/km	110,5	118,8

Operating conditions

Operating Temperature	-50°C...+70°C
Installation Temperature	-10°C...+50°C
Storage Temperature	-50°C...+50°C
Minimum Bend Radius	At least 10 cable diameters
Lifetime	25 years

Physical specifications

Optical cable is resistant to the following impacts

Impact type	**Nominal value**		**Criteria**
	Type 1	Type 2	
Pulling tension (IEC 794-1-93 E1 test procedure)	2,7 kN	7 kN	Δα* ≤ 0,05 dB no damage
Crush resistance (IEC 794-1-93 E3 test procedure)	0,5 kN/cm	0,7 kN/cm	
Dynamic bending stresses (IEC 794-1-93 E6 test procedure)	20 cycles at an angle ±90°		
Axial twisting stresses (IEC 794-1-93 E7 test procedure)	10 cycles at an angle of ± 360° at a length of 4 m		
Impact (IEC 794-1-93 E4 test procedure)	Impact energy is 20 J		
Water resistance (IEC 60794-1-2 para. 25, F5B test procedure)	Sample length: 3m Duration: 24 hours		No water at the end of the sample
Climatic impact low and high temperature resistance (IEC 794-1-93 F1 test procedure)	- temperature range from minus 50 to 70 °C - 2 cycles - cycle duration ≥ 16 hours		

Climatic impact - precipitation (GOST 20.57.406, 218-1 test procedure)	- 2 hours	No cracks or other damage
- salt fog (GOST 20.57.406, 215-1 test procedure)	- 2 days	
- dew and frost (GOST 20.57.406, 206-1 test procedure)	- 2 hours	
- solar radiation (GOST 20.57.406, 211-1 test procedure)	- 5 days	
Dripping of hydrophobic compound (IEC 60794-1-2 E14 test procedure)	at 70 °C	No dripping
Voltage test (GOST 2990-78)	AC Voltage 10 kV, 50 Hz	No breakdown
Pulse spreading current (K.25 МСЭ-Т)	- duration 60 μs - amplitude105 kA	Δα* ≤ 0,05 dB no damage

* - increase in attenuation of an optical fiber in a cable at specific wavelengths.

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)
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	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.3 type requirements)

Model range

LAN-OFC-GYXTZY04S22	ВО кабель бронированный стал. проволокой, GYXTZY, 2,7кН, нг(А)-HF, универсальный, 4 х OS2
LAN-OFC-GYXTZY08S22	ВО кабель бронированный стал. проволокой, GYXTZY, 2,7кН, нг(А)-HF, универсальный, 8 х OS2
LAN-OFC-GYXTZY16S22	ВО кабель бронированный стал.проволокой, GYXTZY, 2,7кН, нг(А)-HF, универсальный,16 х 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.