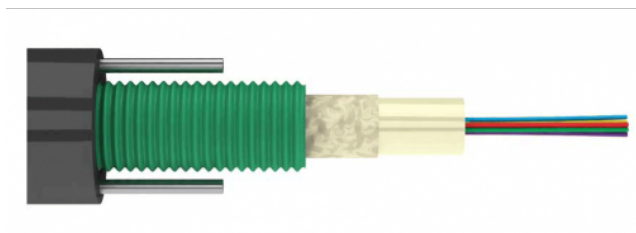


GYXTZW type armored cable, indoor/outdoor, нг(А)-HF jacket

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

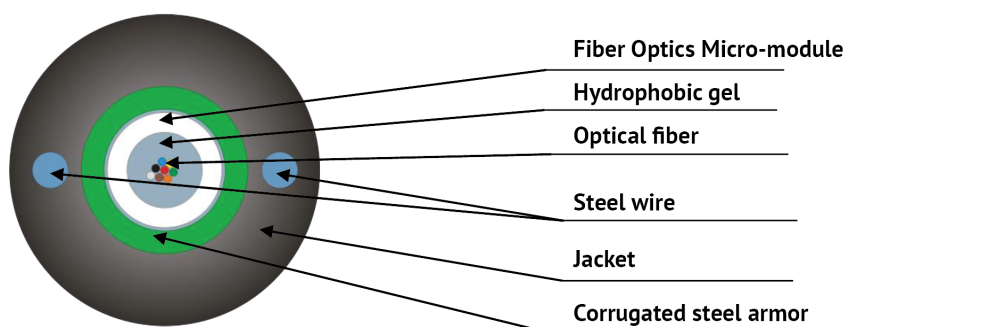
GYXTZW type armored cable, indoor/outdoor, нг(А)-HF jacket



Description

Used for cabling in cable ducts, pipes, trays, tunnels, collectors, over bridges and overpasses, into the ground, and between buildings, as well as inside buildings.

Design



The cable has two types (#1- LAN-OFC-GYXTZWxxyy1; #2 - LAN-OFC-GYXTZWxxyy2)

The cable contains an optical module with loosely laid fibers. The free space in the optical module is filled with a hydrophobic gel. Over the module, a water-blocking tape can be applied (for LAN-OFC-GYXTZWxxyy1), as well as a corrugated steel tape armor and a jacket made of a flame retardant, halogen free, low smoke emission polymer composition. The free space under the corrugated tape is filled with a hydrophobic gel. Two steel wires are located diametrically opposite in the cable jacket and serve as strength members.

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

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

Weight and Dimensions

Cable type Fiber count in the cable:	LAN-OFC-GYXTZWxxyy1			LAN-OFC-GYXTZWxxyy2		
	2~8	10~12	16~24	до 12	до 16	до 24
Cable diameter, (±0.3) mm	7.5	7.5	8.5	7,3	7,5	7,8
Cable weight, □±5□ kg/km	77,0	77,0	90,0	89,9	92,7	97,0

Operating conditions

Cable type:	LAN-OFC-GYXTZWxxyy1	LAN-OFC-GYXTZWxxyy2
Cable type	-40°C...+70°C	-60°C...+70°C
Installation Temperature	-20°C...+60°C	-30°C...+50°C
Storage Temperature	-40°C...+70°C	-50°C...+50°C
Minimum Bend Radius	10 cable diameters (without pulling tension), 20 cable diameters (with maximum pulling tension)	At least 15 cable diameters
Lifetime	25 years	25 years

Physical specifications for LAN-OFC-GYXTZWxxyy2 cable:

Optical cable is resistant to the following impacts

Impact type	Nominal value	Criteria for evaluation
Pulling tension	2,7 kN	$\Delta\alpha^* \leq 0,05$ dB
(IEC 794-1-93 E1 test procedure)		
Crush resistance	0,5 kN/cm	no damage
(IEC 794-1-93 E3 test procedure)		
Dynamic bending stresses	20 cycles at an angle $\pm 90^\circ$	

(IEC 794-1-93 E6 test procedure)

Axial twisting stresses

10 cycles at an angle of $\pm 360^\circ$

(IEC 794-1-93 E7 test procedure)

at a length of 4 m

Impact (IEC 794-1-93 E4 test procedure)

Impact energy is 10 J

Water resistance

Sample length: 3m

No water

(IEC 60794-1-2 para. 25, F5B test procedure)

at the end of the sample

Duration: 24 hours

$\Delta\alpha \leq 0,05$ dB/km

Climatic impact

- temperature range

low and high temperature resistance

from minus 60 to 70 °C

(IEC 794-1-93 F1 test procedure)

- 2 cycles
- cycle duration ≥ 16 hours
- 2 hours

No cracks or other damage

Climatic impact

- Climatic impact (GOST 20.57.406, 218-1 test procedure)

- 2 days

- salt fog

(GOST 20.57.406, 215-1 test procedure)

- 2 hours

- dew and frost

(GOST 20.57.406, 206-1 test procedure)

- 5 days

- solar radiation

(GOST 20.57.406, 211-1 test procedure)

at 70 °C

No dripping

Dripping of hydrophobic compound

(IEC 60794-1-2 E14 test procedure)

No dripping (GOST 2990-78)

AC Voltage 10 kV, 50 Hz

No breakdown

Pulse spreading current (K.25 MCЭ-T)

- duration 60 μ s
- 105 κ A

- $\Delta\alpha^* \leq 0,05$ dB
- no damage

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

Physical specifications for LAN-OFC-GYXTZWxxyy1 cable:

№	Specification		Value
1	Maximum pulling tension	Short term impact	850 N
		Long term impact	250 N
2	Crush resistance	Short term impact	1000 (N/100mm))
		Long term impact	300 (N/100mm)

Applicable optical fibers:

Identifier	Description
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 fiber with an extended bandwidth of operating wavelengths (ITU-T G.652D recommendation)
S7	Single-mode with low bending loss (ITU-T G.657 recommendation)
M1	Single-mode with low bending loss (ITU-T G.657 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)

Product code	Description
LAN-OFC-GYXTZWxxyyk	FO cable, armored with steel tape, GYXTZW, нг(А)-HF/LSZH, indoor/outdoor, xx x OS2 Ultra/OS2/OM1/OM2/OM3/OM4

xx – fiber count

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

k - maximum pulling tension identifier:

k = 1 - 0,85 kN

k = 2 - 2,7 kN

Model range

LAN-OFC-	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 4
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GYXTZW04M22	x OM2
LAN-OFC-GYXTZW04M32	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 4 x OM3
LAN-OFC-GYXTZW08SU2	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 8 x OS2 Ultra
LAN-OFC-GYXTZW08M22	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 8 x OM2
LAN-OFC-GYXTZW08M32	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 8 x OM3
LAN-OFC-GYXTZW16SU2	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 16 x OS2 Ultra
LAN-OFC-GYXTZW16M32	FO cable armored with steel tape, GYXTZW, 2.7 kN, нг(А)-HF, indoor/outdoor, 16 x OM3
LAN-OFC-GYXTZW04S21	FO cable armored with steel tape, GYXTZW, LSZH, indoor/outdoor, 4 x OS2
LAN-OFC-GYXTZW08S21	FO cable armored with steel tape, GYXTZW, LSZH, indoor/outdoor, 8 x OS2
LAN-OFC-GYXTZW16S21	FO cable armored with steel tape, GYXTZW, LSZH, indoor/outdoor, 16 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.