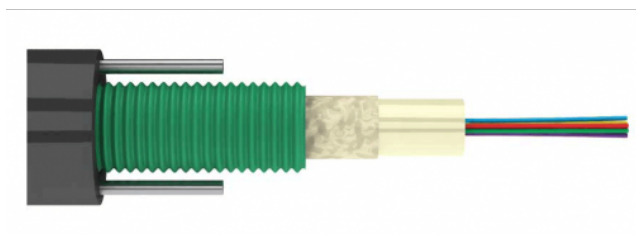


GYXTW type armored cable, outdoor, PE jacket

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

GYXTW type armored cable, outdoor, PE jacket

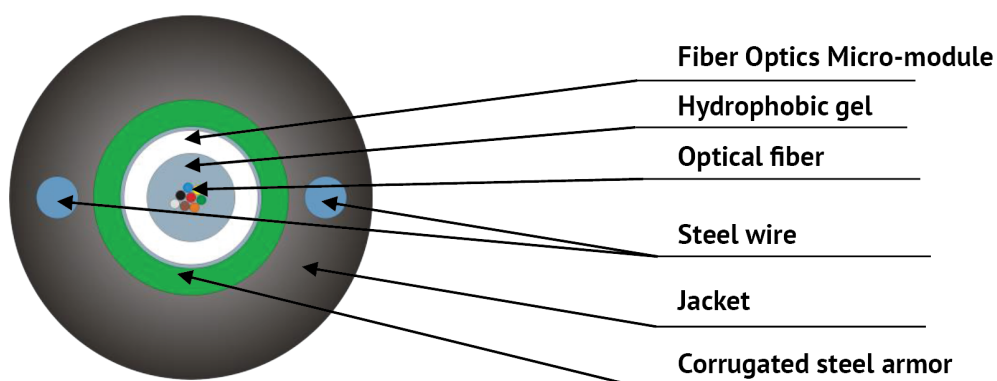


Description

Application:

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

Design:



The cable has two types (#1- LAN-OFC-GYXTWxxxy1; #2 - LAN-OFC-GYXTWxxxy2)

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-GYXTWxxxy1), as well as a corrugated steel tape armor and a polyethylene jacket. 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 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:	LAN-OFC-GYXTWxxyy1			LAN-OFC-GYXTWxxyy2		
Fiber count in the cable:	2~8	10~12	14~24	до 12	до 16	до 24
Cable diameter, (±0.2) mm	7.9	8.1	8.5	7,3	7,5	7,8
Cable weight, ±5 kg/km	60	63	68	70,5	72,6	75,7

Operating conditions

Cable type:	LAN-OFC-GYXTWxxyy1	LAN-OFC-GYXTWxxyy2
Operating Temperature	-40°C...+70°C	-60°C...+70°C
Installation Temperature	-20°C...+60°C	-30°C...+50°C
Storage Temperature	-40°C...+70°C	-60°C...+70°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-GYXTWxxyy2 cable:

Optical cable is resistant to the following impacts

Impact type	Nominal value	Criteria for evaluation
Pulling tension (IEC 794-1-93 E1 test procedure)	2,7 kN	- $\Delta\alpha^* \leq 0,05$ dB - no damage
Crush resistance (IEC 794-1-93 E3 test procedure)	0,5 kN/cm	
Dynamic bending stresses (IEC 794-1-93 E6 test procedure)	20 cycles at an angle $\pm 90^\circ$	
Axial twisting stresses (IEC 794-1-93 E7 test procedure)	- 10 cycles - at an angle of $\pm 360^\circ$ at a length of 4 m	
Impact (IEC 794-1-93 E4 test procedure)	Impact energy is 10 J	
Water resistance (IEC 60794-1-2 para. 25, F5B test procedure)	Sample length: 3m	No water at the end of the sample

Climatic impact	Duration: 24 hours	
low and high temperature resistance	- temperature range from minus 60 to 70 °C	$\Delta\alpha \leq 0,05$ dB/km
(IEC 794-1-93 F1 test procedure)	- 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
Electrical resistance of the "armor-ground (water)" circuit (GOST 3345-76)	2000 MOhm*km	More than the boundary value
Pulse spreading current (K.25 MCЭ-T) - duration 60 мкс- amplitude 105 kA		- $\Delta\alpha^* \leq 0,05$ dB - no damage
* - increase in attenuation of an optical fiber in a cable at specific wavelengths.		

Physical specifications for LAN-OFC-GYXTWxxyy1 cable:

Nº	Specification	Value
1	Maximum pulling tension	Short term impact 1500 N Long term impact 600 N
2	Crush resistance	Short term impact 1000 (N/100mm) Long term impact 300 (N/100mm)

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 μ m (IEC 60793-2-10 A1b type recommendation)
M2	Multi-mode with core to cladding ratio 50/125 μ m (ITU-T G.651 recommendation and IEC 60793-2-10 type A1a.1 requirements)
M3	Multi-mode with core to cladding ratio 50/125 μ m (ITU-T G.651 recommendation and IEC 60793-2-10 type A1a.1 requirements)
M4	Multi-mode with core to cladding ratio 50/125 μ m (ITU-T G.651 recommendation and IEC 60793-2-10 type A1a.1 requirements)

Product code

LAN-OFC-GYXTWxxyy

Description

FO cable, armored with steel tape, GYXTW, PE, outdoor,
xx x OS2 Ultra/OS2/OM1/OM2/OM3/OM4

xx – fiber count

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

k - maximum pulling tension identifier:

k = 1 - 0,6 kN

k = 2 - 2,7 kN

Model range

LAN-OFC-GYXTW4S2	Outdoor FO cable, armored, GYXTW, PE, 4 fibers, G.652 SM
LAN-OFC-GYXTW04M22	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 4 x OM2
LAN-OFC-GYXTW04M32	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 4 x OM3
LAN-OFC-GYXTW8S2	Outdoor FO cable, armored, GYXTW, PE, 8 fibers, G.652 SM
LAN-OFC-GYXTW08SU2	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 8 x OS2 Ultra
LAN-OFC-GYXTW08M22	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7, PE, 8 x OM2
LAN-OFC-GYXTW08M32	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 8 x OM3
LAN-OFC-GYXTW12S2	Outdoor FO cable, armored, GYXTW, PE, 12 fibers, G.652 SM
LAN-OFC-GYXTW16SU2	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 16 x OS2 Ultra
LAN-OFC-GYXTW16M32	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 16 x OM3
LAN-OFC-GYXTW16S21	Outdoor FO cable, armored with corrugated steel tape, GYXTW, PE, 16 x OS2
LAN-OFC-GYXTW24SU2	Outdoor FO cable, armored with corrugated steel tape, GYXTW, 2.7 kN, PE, 24 x OS2 Ultra

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.