

Паспорт изделия

Indoor/Outdoor Cable with нг(А)-HF Jacket and Micro-modules

Product Code: [LAN-OFC-DUMxx-yy-HF](#)

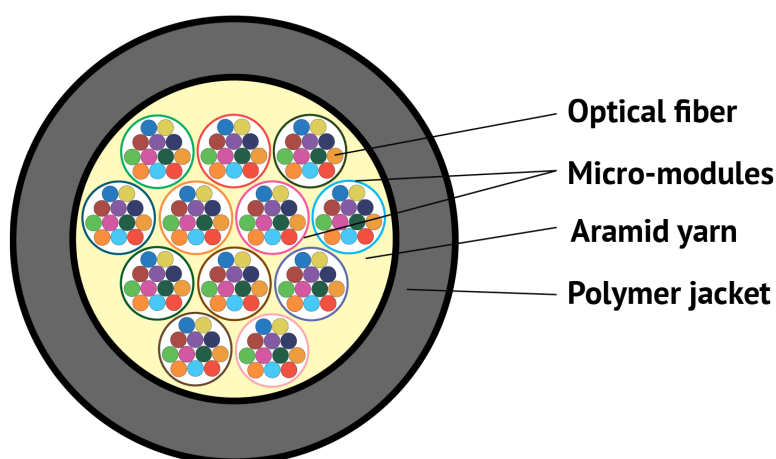
Indoor/Outdoor Cable with нг(А)-HF Jacket and Micro-modules

Description

Application:

Used as a distribution cable for cabling inside buildings, in cable trays, in cable ducts, pipes and tunnels, as well as for cabling on external facades of buildings.

Design:



The cable contains a bundle of micro-modules with optical fibers which is covered with a layer of strength aramid yarn. The cable jacket is made of a flame retardant, halogen-free, low-smoke polymer composition. The cable jacket is made of a black polymer composition resistant to ultraviolet radiation.

The maximum possible count of optical fibers in the cable is 288.

Color identification of optical fibers and micromodules:

Fiber color			Micro-module color		
№	Fibers 1-12	№	Modules 1-12	№	Modules 13-24
1	Blue	1	Blue	13	Blue + 1 mark
2	Orange	2	Orange	14	Orange + 1 mark
3	Green	3	Green	15	Green + 1 mark
4	Brown	4	Brown	16	Brown + 1 mark
5	Grey	5	Grey	17	Grey + 1 mark
6	White	6	White	18	White + 1 mark
7	Red	7	Red	19	Red + 1 mark
8	Black	8	Black	20	Black + 1 mark

9	Yellow	9	Yellow	21	Yellow + 1 mark
10	Violet	10	Violet	22	Violet + 1 mark
11	Pink	11	Pink	23	Pink + 1 mark
12	Turquoise	12	Turquoise	24	Turquoise + 1 mark

Weight and Dimensions:	Fiber count in the cable	Cable diameter, mm	Cable weight, kg/km
	4 (1x4)	5,6	32,2
	8 (2x4)	6,0	35,5
	8 (4x2)	6,4	39,1
	12 (2x6)	6,2	37,9
	12 (6x2)	6,8	43,5
	16 (4x4)	6,6	41,4
	24 (4x6)	7,0	45,6
	24 (6x4)	7,1	46,7
	24 (12x2)	7,9	55,4
	32 (8x4)	7,5	51,7
	36 (6x6)	7,7	52,5
	48 (6x8)	7,8	54,6
	48 (8x6)	8,3	58,9
	48 (12x4)	8,4	61,0
	64 (8x8)	8,5	61,5
	64 (16x4)	9,1	69,5
	72 (6x12)	8,3	59,3
	72 (12x6)	9,3	70,7
	96 (8x12)	9,0	67,3
	96 (12x8)	9,5	74,3
	96 (16x6)	10,1	81,5
	144 (12x12)	10,2	82,1
	144 (24x6)	11,6	101,5
	192 (16x12)	11,2	95,8
	192 (24x8)	12,0	108,0
	288 (24x12)	13,0	121,0

Operating conditions:

Operating Temperature	-10°C...+50°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 for evaluation
Installation pulling tension (IEC 794-1-93 E1 test procedure)	1600 N	$\Delta\alpha^* \leq 0,05$ dB no damage
Long term pulling tension (IEC 794-1-93 E1 test procedure)	800 N	
Crush resistance (IEC 794-1-93 E3 test procedure)	100 N/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 3 J
 Climatic impact (IEC 794-1-93 F1 test procedure) - temperature range from minus 10 to 50 °C $\Delta\alpha \leq 0,05$ dB/km
 - 2 cycles
 - cycle duration ≥ 16 hours
 * - increase in attenuation of an optical fiber in a cable at specific wavelengths.

Product code	Description
LAN-OFC-DUMxx-yy-HF	Indoor/outdoor FO cable, Distribution, нг(А)-HF, xx (nn x mm) fibers, OS2 Ultra/OM1/OM2/OM3/OM4, black
xx – fiber count	
yy – fiber type (SU, S5, S7, M1, M2, M3, M4)	
nn – micro-modules count	
mm – fibers count in micro-module	

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

The cable is supplied on request. Check the availability and delivery time with the company's managers.

Model range

LAN-OFC-DUM8-S2-HF	Indoor/Outdoor Cable with нг(А)-HF Jacket and Micro-modules
LAN-OFC-DUM8-M2-HF	Indoor/Outdoor Cable with нг(А)-HF Jacket and Micro-modules

LAN-OFC-DUM8-M3-HF	Indoor/Outdoor Cable with H _r (A)-HF Jacket and Micro-modules
LAN-OFC-DUM8-M4-HF	Indoor/Outdoor Cable with H _r (A)-HF Jacket and Micro-modules
LAN-OFC-DUM12-S2-HF	Indoor/Outdoor Cable with H _r (A)-HF Jacket and Micro-modules
LAN-OFC-DUM12-M2-HF	Indoor/Outdoor Cable with H _r (A)-HF Jacket and Micro-modules
LAN-OFC-DUM12-M3-HF	Indoor/Outdoor Cable with H _r (A)-HF Jacket and Micro-modules
LAN-OFC-DUM12-M4-HF	Indoor/Outdoor Cable with H _r (A)-HF Jacket and Micro-modules

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.