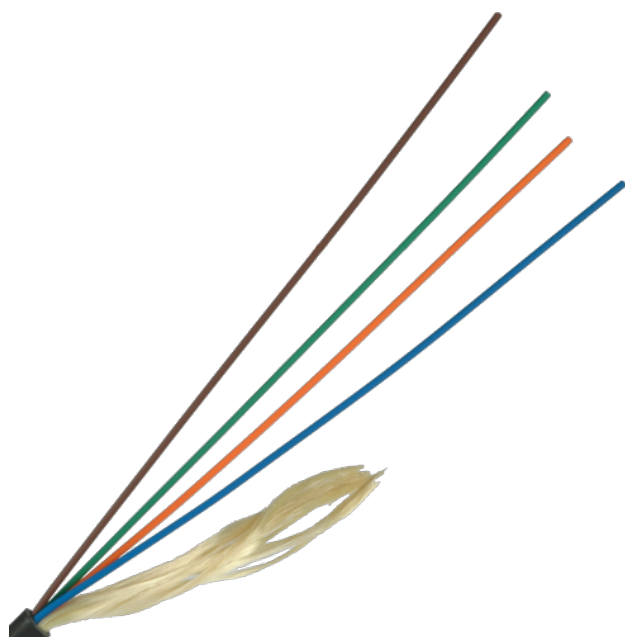


Indoor/Outdoor Distribution Cable



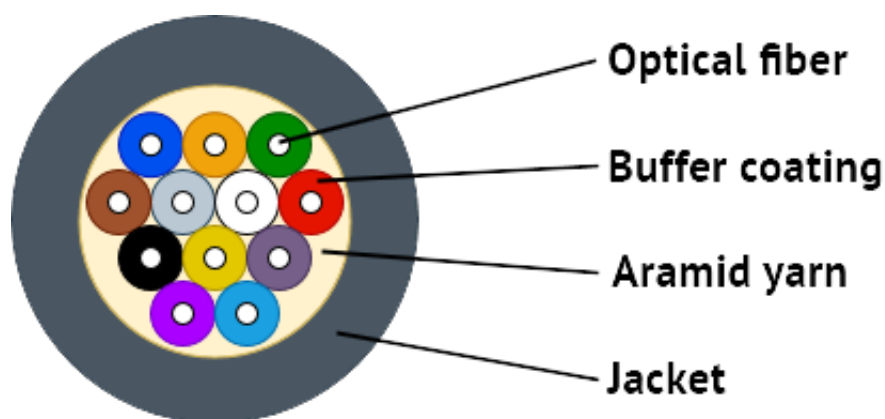
Product Code: [LAN-OFC-DUxx-yy-zz](#)

Indoor/Outdoor Distribution Cable

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.



The cable contains a bundle of tight buffer 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.

By agreement with the customer, the color of the jacket can be changed.

The maximum count of optical fibers is 48.

№	Fibers 1-12	№	Fibers 13-24	№	Fibers 25-36	№	Fibers 37-48
1	Blue	13	Blue + 1 mark	25	Blue + 2 marks	37	Blue + 3 marks

2	Orange	14	Orange + 1 mark	26	Orange + 2 marks	38	Orange + 3 marks
3	Green	15	Green + 1 mark	27	Green + 2 marks	39	Green + 3 marks
4	Brown	16	Brown + 1 mark	28	Brown + 2 marks	40	Brown + 3 marks
5	Grey	17	Grey + 1 mark	29	Grey + 2 marks	41	Grey + 3 marks
6	White	18	White + 1 mark	30	White + 2 marks	42	White + 3 marks
7	Red	19	Red + 1 mark	31	Red + 2 marks	43	Red + 3 marks
8	Black	20	Black + 1 mark	32	Black + 2 marks	44	Black + 3 marks
9	Yellow	21	Yellow + 1 mark	33	Yellow + 2 marks	45	Yellow + 3 marks
10	Violet	22	Violet + 1 mark	34	Violet + 2 marks	46	Violet + 3 marks
11	Pink	23	Pink + 1 mark	35	Pink + 2 marks	47	Pink + 3 marks
12	Turquoise	24	Turquoise + 1 mark	36	Turquoise + 2 marks	48	Turquoise + 3 marks

Weight and Dimensions:

Fiber count in the cable	Cable diameter, mm	Cable weight, kg/km	Minimum Bend Radius, mm
2	5,1	29,8	51
4	5,6	35,1	56
6	6,0	39,7	60
8	6,3	43,7	63
12	6,9	51,6	69
16	7,5	60,2	75
24	8,5	75,4	85
32	10,5	95,2	105
36	11,0	102,0	110
48	12,1	121,4	121

Operating conditions:

Operating Temperature	-40°C...+60°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)	200 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 40 to 60 °C
- 2 cycles
- cycle duration ≥ 16 hours

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

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

** - by agreement with the customer, the operating temperature range can be changed.

Product code

LAN-OFC-DUxx-yy-HF

Description

Indoor/Outdoor FO cable, Distribution, нг(A)-HF, **xx** fibers, OS2 Ultra/OM1/OM2/OM3/OM4, black

xx – fiber count

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

HF – нг(A)-HF jacket is made of polymeric material that is flame retardant in bundles, with reduced smoke and gas emission and does not contain halogens.

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 μ m (IEC 60793-2-10 A1b type recommendation)
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 low bending loss and core to cladding ratio 50/125 μ m (ITU-T G.651 recommendation and IEC 60793-2-10 A1a.2 type requirements)

Model range

LAN-OFC-DU2-SU-HF	Indoor/Outdoor FO cable, Distribution, нг(A)-HF, 2 fibers, OS2 Ultra, black
LAN-OFC-DU2-S7-LS	Indoor/Outdoor FO cable, Distribution, LSZH, 2 fibers, SM, G.657, black
LAN-OFC-DU2-M2-HF	Indoor/Outdoor FO cable, Distribution, нг(A)-HF, 2 fibers, OM2, black
LAN-OFC-DU4-S7-LS	Indoor/Outdoor FO cable, Distribution, LSZH, 4 fibers, SM, G.657, black

LAN-OFC-DU4-SU-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 4 fibers, OS2 Ultra, black
LAN-OFC-DU4-M2-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 4 fibers, OM2, black
LAN-OFC-DU4-M3-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 4 fibers, OM3, black
LAN-OFC-DU8-SU-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 8 fibers, OS2 Ultra, black
LAN-OFC-DU8-M2-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 8 fibers, OM2, black
LAN-OFC-DU8-M3-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 8 fibers, OM3, black
LAN-OFC-DU12-S7-LS	Indoor/Outdoor FO cable, Distribution, LSZH, 12 fibers, SM, G.657, black
LAN-OFC-DU12-SU-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 12 fibers, OS2 Ultra, black
LAN-OFC-DU12-M2-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 12 fibers, OM2, black
LAN-OFC-DU16-M3-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 16 fibers, OM3, black
LAN-OFC-DU16-SU-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 16 fibers, OS2 Ultra, black
LAN-OFC-DU16-M2-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 16 fibers, OM2, black
LAN-OFC-DU16-S7-LS	Indoor/Outdoor FO cable, Distribution, LSZH, 16 fibers, SM, G.657, black
LAN-OFC-DU24-S7-LS	Indoor/Outdoor FO cable, Distribution, LSZH, 24 fibers, SM, G.657, black
LAN-OFC-DU8-S7-LS	Indoor/Outdoor FO cable, Distribution, LSZH, 8 fibers, SM, G.657, black
LAN-OFC-DU2-M3-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 2 fibers, OM3, black
LAN-OFC-DU24-SU-HF	Indoor/Outdoor FO cable, Distribution, нг(А)-HF, 24 fibers, OS2 Ultra, black
LAN-OFC-DU16-M3-LS	Indoor/Outdoor FO cable, Distribution, LSZH IEC 60332-3-24, 16 fibers, OM3, black

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.