

Indoor Cable with hr(A)-HF Jacket and micro-modules

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

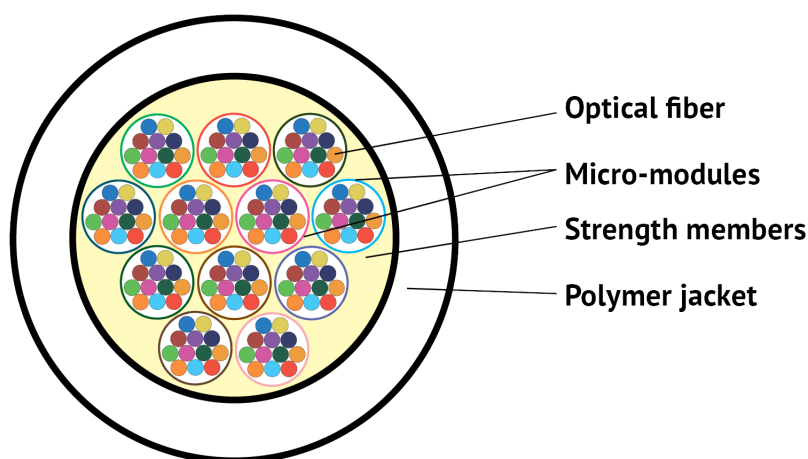
Indoor Cable with hr(A)-HF Jacket and micro-modules

Description

Application:

Used as a distribution cable for cabling inside buildings, in cable trays, in cable ducts, pipes and tunnels.

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 manufactured:

- yellow color for OS2 single mode fiber
- orange color for OM1, OM2 multimode fiber
- aqua color for OM3 multimode fiber
- pink color for OM4 multimode fiber

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
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Turquoise

6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Turquoise

18	White + 1 mark
19	Red + 1 mark
20	Black + 1 mark
21	Yellow + 1 mark
22	Violet + 1 mark
23	Pink + 1 mark
24	Turquoise + 1 mark

Weight and Dimensions:

Fiber count	Cable diameter, mm	Cable weight, kg/km
4 (1x4)	5,0	26,8
8 (2x4)	5,5	30,6
8 (4x2)	5,9	34,7
12 (2x6)	5,8	33,4
12 (6x2)	6,4	39,5
16 (4x4)	6,2	37,2
24 (4x6)	6,7	41,8
24 (6x4)	6,7	42,9
24 (12x2)	7,6	52,0
36 (6x6)	7,4	49,1
48 (6x8)	7,5	51,2
48 (8x6)	8,0	55,7
48 (12x4)	8,1	57,8
64 (8x8)	8,2	58,4
64 (16x4)	8,8	66,6
72 (6x12)	8,0	56,1
72 (12x6)	9,0	67,8
96 (8x12)	8,8	64,4
96 (12x8)	9,3	71,5
96 (16x6)	9,9	78,8
144 (12x12)	10,0	79,4
144 (24x6)	11,5	99,1
192 (16x12)	11,1	93,3
192 (24x8)	11,8	105,6
288 (24x12)	12,8	118,8

Operating conditions:

Operating Temperature
Installation Temperature
Storage Temperature
Minimum Bend Radius
Lifetime

-10°C...+50°C
-10°C...+50°C
-50°C...+50°C
At least 10 cable diameters
25 years

Cable physical characteristics:

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)	800 N	$\Delta\alpha^* \leq 0,05$ dB no damage
Long-term pulling tension (IEC 794-1-93 E1 test procedure)	400 N	
Crushing strength (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)	- 10 cycles	

E7 test procedure)

- 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

LAN-OFC-DIMxx-yy-HF

Description

Indoor FO cable, Distribution, HF(A)-HF, **xx (n x m)** fibers, OS2 Ultra/OS2/OM1/OM2/OM3/OM4, yellow/orange/aqua/pink

xx – fiber count

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

n - micro-modules count

m – 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)
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 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)
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.3 type requirements)

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

Model range

LAN-OFC-DIM8-S2-HF	Indoor Cable with HF(A)-HF Jacket and micro-modules
LAN-OFC-DIM8-M2-HF	Indoor Cable with HF(A)-HF Jacket and micro-modules

LAN-OFC-DIM8-M3-HF	Indoor Cable with нг(А)-HF Jacket and micro-modules
LAN-OFC-DIM8-M4-HF	Indoor Cable with нг(А)-HF Jacket and micro-modules
LAN-OFC-DIM12-S2-HF	Indoor Cable with нг(А)-HF Jacket and micro-modules
LAN-OFC-DIM12-M2-HF	Indoor Cable with нг(А)-HF Jacket and micro-modules
LAN-OFC-DIM12-M4-HF	Indoor Cable with нг(А)-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.