

Indoor Riser Fiber Optics Cable with Micro-modules

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

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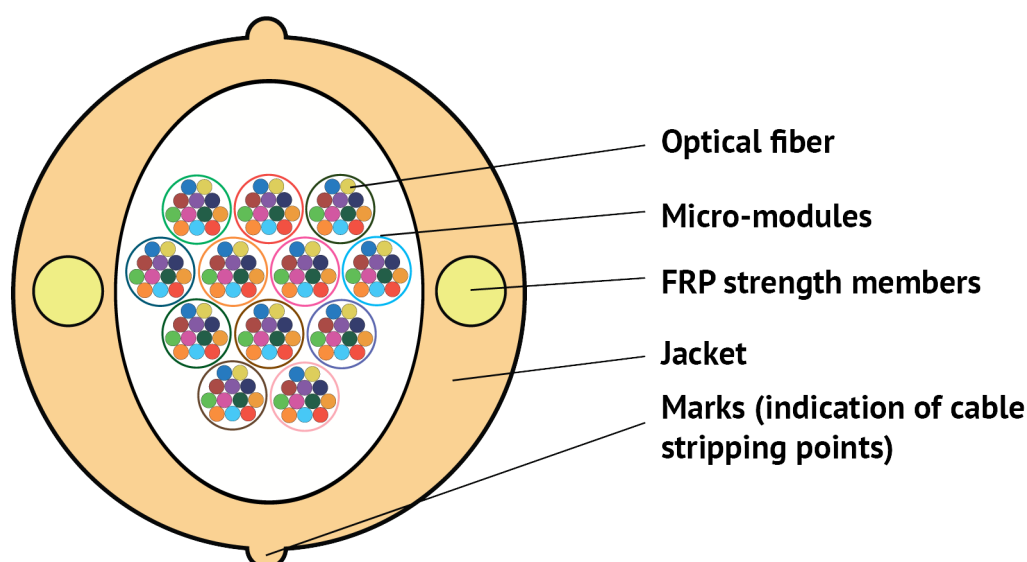


Description

Application:

Used as a riser cable for vertical installation inside buildings with direct fiber access.

Design:



The cable contains a bundle of micro-modules with optical fibers. The cable jacket is made of a flame retardant, halogen-free, low-smoke polymer composition. There are two diametrically opposite FRP rods in the cable jacket, which prevent axial twisting of the cable and act as strength members.

Color identification of optical fibers and micromodules:

Fiber color		Micro-module color	
№	Fibers 1-12	№	Modules 1-12
1	Blue	1	Blue
2	Orange	2	Orange
3	Green	3	Green
4	Brown	4	Brown
5	Grey	5	Grey
6	White	6	White
7	Red	7	Red
8	Black	8	Black
9	Yellow	9	Yellow
10	Violet	10	Violet
11	Pink	11	Pink
12	Turquoise	12	Turquoise
		№	Modules 13-24
		13	Blue + 1 mark
		14	Orange + 1 mark
		15	Green + 1 mark
		16	Brown + 1 mark
		17	Grey + 1 mark
		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:

Count of fibers in the cable	Cable diameter, mm	Minimum jacket thickness, mm	Maximum jacket thickness, mm	Cable weight, kg/km
2 (1x2)	6,5	1,0	2,0	38,2
4 (1x4)	6,5	1,0	2,0	38,4
8 (2x4)	6,5	1,0	2,0	39,4
12 (3x4)	6,5	1,0	2,0	40,4
16 (4x4)	6,5	1,0	2,0	41,3
20 (5x4)	8,5	1,0	2,0	56,4
24 (4x6)	8,5	1,0	2,0	56,7
24 (6x4)	8,5	1,0	2,0	57,4
24 (12x2)	8,5	1,0	2,0	60,6
32 (8x4)	8,5	1,0	2,0	59,3
36 (6x6)	8,5	1,0	2,0	59,2
40 (10x4)	8,5	1,0	2,0	61,3
48 (6x8)	8,5	1,0	2,0	60,3
48 (8x6)	10,5	1,0	2,0	75,9
48 (12x4)	10,5	1,0	2,0	77,4
60 (10x6)	10,5	1,0	2,0	78,4
64 (8x8)	10,5	1,0	2,0	77,3
64 (16x4)	10,5	1,0	2,0	81,2
72 (6x12)	10,5	1,0	2,0	76,0
72 (12x6)	10,5	1,0	2,0	81,0
96 (8x12)	10,5	1,0	2,0	79,4
96 (16x6)	13,5	1,5	2,5	130,8
96 (24x4)	13,5	1,5	2,5	133,7
144 (12x12)	13,5	1,5	2,5	131,0
144 (24x6)	13,5	1,5	2,5	141,0
192 (24x8)	13,5	1,5	2,5	145,2
192 (16x12)	13,5	1,5	2,5	137,8
288 (24x12)	14,5	1,5	2,5	160,9

Operating conditions:

Operating Temperature	-30°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 characteristics:

Optical cable is resistant to the following impacts

Impact type	Nominal value	Criteria for evaluation
Pulling tension (IEC 794-1-93 E1 test procedure)	400 N	$\Delta\alpha^* \leq 0,05$ dB no damage
Crushing strength (IEC 794-1-93 E3 test procedure)	80 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 30 to 50 °C - 2 cycles - cycle time ≥ 16 hours	$\Delta\alpha \leq 0,05$ dB/km

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

Product code	Description
LAN-OFC-RIMxx-yy-HF	Indoor FO cable, Riser, HF(A)-HF, xx (n x m) fibers, micro-modules, OS2 Ultra/OS2/OM1/OM2/OM3/OM4

xx – fiber count

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

n - micro-module count

m - fiber 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 μm (IEC 60793-2-10 A1b type 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)

Model range

LAN-OFC-RIM8-S2-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM8-M2-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM8-M3-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM8-M4-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM12-S2-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM12-M2-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM12-M3-HF	Indoor Riser Fiber Optics Cable with Micro-modules
LAN-OFC-RIM12-M4-HF	Indoor Riser Fiber Optics Cable with 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.