

Indoor Riser Fiber Optics Cable

Product Code: [LAN-OFC-RIxx-yyyy-zz](#)

Indoor Riser Fiber Optics Cable

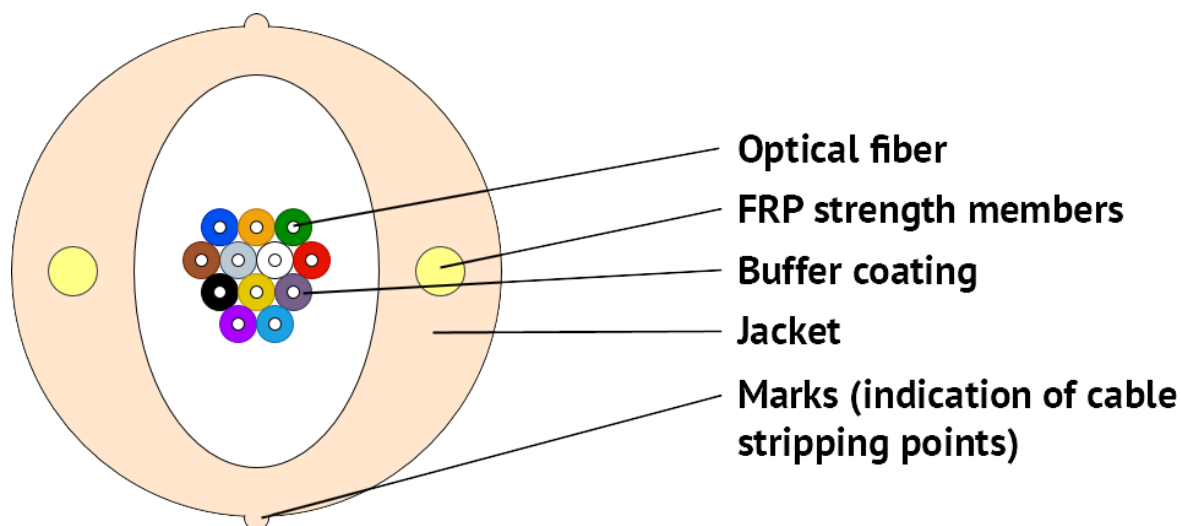


Description

Application:

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

Design:



The cable contains a bundle of tight buffer 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 tight buffer optical fibers

N ^o	Fibers 1-12	N ^o	Fibers 13-24	N ^o	Fibers 25-36	N ^o	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:

Count of fibers in the cable	Cable diameter, mm	Minimum jacket thickness, mm	Maximum jacket thickness, mm	Cable weight, kg/km	Minimum bend radius, mm
Up to 4	6,5	1,0	2,0	41,5	65
Up to 12	8,5	1,0	2,0	63,8	85
Up to 24	10,5	1,0	2,0	90,1	105
Up to 32	14,5	1,5	2,5	152,4	145
Up to 36	14,5	1,5	2,5	156,5	145
Up to 48	14,5	1,5	2,5	168,6	145

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- temperature range from minus 30 to 50 °C $\Delta\alpha \leq 0,05$ dB/km procedure)
 - 2 cycles
 - cycle duration ≥ 16 hours

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

Product code	Description
LAN-OFC-RIxx-yy-HF	Indoor fiber optics cable, riser, Hr(A)-HF, xx – fiber count, OS2 Ultra/OS2/OM1/OM2/OM3/OM4

xx – fiber count

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

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)

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

Model range

LAN-OFC-RI12-S7A2-LS	Indoor FO cable, Riser, LSZH, 12 fibers, SM G657.A2, white
LAN-OFC-RI8-S7A2-LS	Indoor FO cable, Riser, LSZH, 8 fibers, SM G657.A2, белый

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.