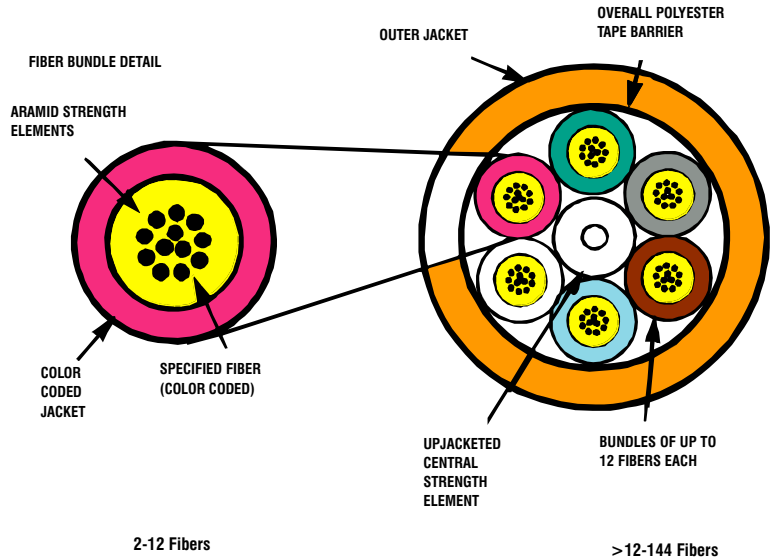


Distribution Riser

Riser UL/c(UL) Type OFNR/OFN FT4

DESCRIPTION

MOHAWK'S INDOOR TIGHT BUFFER DISTRIBUTION RISER FIBER OPTIC CABLE CONSISTS OF INDIVIDUALLY THERMOPLASTIC COLOR CODED 900 μ m BUFFERED FIBERS. THE PLASTIC COATING MATERIAL PROVIDES AN EXTRA LAYER OF CRUSH AND IMPACT RESISTANCE TO THE BARE OPTICAL FIBER COATING. BUFFERES ARE THEN SURROUNDED BY ALL-DIELECTRIC ARAMID STRENGTH MEMBERS FOR MAXIMUM STRENGTH WITH MINIMAL ELONGATION. THE CORE IS THEN PROTECTED WITH AN OVERALL UV-RESISTANT, FLAME-RETARDANT COLORED JACKET. FOR CABLES WITH FIBER COUNTS OVER 24, BUNDLES OF 6 OR 12 BUFFERED FIBERS ARE UTILIZED AND CABLED AROUND A CENTRAL STRENGTH MEMBER. AN OVERALL POLYESTER TAPE BARRIER AND RIPCORD IS APPLIED UNDER THE OVERALL COLORED THERMOPLASTIC JACKET WHICH MEETS ALL THE REQUIREMENTS OF UL/cUL TYPE OFNR/OFN FT4. MOHAWK'S DISTRIBUTION RISER CABLES ARE OFFERED IN ALL GRADES OF MULTIMODE AND SINGLE-MODE UP TO 144 FIBERS.



PRODUCT FEATURES/BENEFITS

- 900 μ m TIGHT BUFFERED FIBERS
- COLOR CODED FOR EASY TERMINATION
- UV AND FLAME RETARDANT
- UL LISTED FOR CODE COMPLIANCE
- MSHA APPROVED CABLES ARE AVAILABLE

APPLICATIONS

- INTRABUILDING BACKBONE CABLING
- WORK AREA CABLING
- COMPUTER ROOM CABLING

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

● CRUSH RESISTANCE	(EIA-455-41)	2000 N/cm
● IMPACT RESISTANCE	(EIA-455-25)	2000 IMPACTS W/1.6 N-m
● FLEXURE	(EIA-455-104)	2000 CYCLES MIN.
● MIN. BEND RADIUS	LONG TERM-NO LOAD	10X CABLE DIAMETER
● MIN. BEND RADIUS	SHORT TERM-LOAD	15X CABLE DIAMETER
● OPERATING TEMP.	--	-20°C TO +70°C
● INSTALLATION TEMP.	--	-10°C TO +60°C
● STORAGE TEMP.	--	-40°C TO +80°C
● UL/C(UL) RATED	TYPE OFNR/OFN FT4	
● FLAME RESISTANCE	UL 1666	PASSED

Distribution Riser

Riser UL/c(UL) Type OFNR/OFN FT4

Part Number	Fiber Count	Outside Diameter		Weight		Short Term		Long Term		Max. Load (Installation)	
		mm	in.	kg/km	lbs/M'	cm	in.	cm	in.	Newtons	lbs.
M9X037	2	4.67	.184	19	13	7.0	2.8	4.7	1.8	801	180
M9X038	4	5.08	.200	24	16	7.6	3.0	5.1	2.0	867	195
M9X039	6	5.59	.220	28	19	8.4	3.3	5.6	2.2	1201	270
M9X040	8	5.97	.235	33	22	8.9	3.5	6.1	2.4	1201	270
M9X042	12	6.48	.255	40	27	9.6	3.8	6.6	2.6	1334	300
M9X601*	24	8.26	.325	63	42	12.4	4.9	8.4	3.3	1735	390
M9X602	24	12.60	.496	124	83	18.8	7.4	12.7	5.0	4270	960
M9X604	36	16.36	.644	204	137	24.6	9.7	16.5	6.4	6405	1440
M9X606	48	15.93	.627	195	131	23.9	9.4	16.0	6.3	4203	945
M9X609	72	19.10	.750	290	195	28.6	11.3	19.1	7.5	6005	1350
M9X622	96	22.70	.895	432	290	34.0	13.4	22.9	9.0	8820	1983
M9X619	144	24.49	.964	467	314	36.8	14.5	24.4	9.6	12,210	2745

For "X" in part number see optical characteristics below.

Optical Characteristics

Meets or exceeds ISO/IEC 11801

	OM1	OM1	OM2	OM3	OM3	
Grade	2	3	4	5	6	SM2
Glass Type	62.5/125 MM AdvanceLite	62.5/125 MM AdvanceLite	50/125 MM AdvanceLite	50/125 MM AdvanceLite	50/125 MM AdvanceLite	Single-Mode Enhanced ⁵
Part Number Code (X)	B	D	A	C	E	W
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL ¹ Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	—
Min. Laser ² Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4700/500	—
Max. Attenuation Tight Buffered (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
100 Mbit Fast Ethernet Min. Link Length (meters S/L/E ³)	300/2000	300/2000	300/2000	300/2000	300/2000	5000/—
1 Gigabit Ethernet Min. Link Length (meters S/L/E ³)	300/550	500/1000	600/600	1000 ⁴ /600	1000 ⁴ /600	5000/—
10 Gigabit Ethernet Min. Link Length (meters S/L/E ³)	33/300	33/300	82/300	300/300	550/300	10,000/40,000

¹ OFL – Overfilled Launch

² Effective Modal Bandwidth, determined by RML or DMD performance specifications

³ S/L/E – Short wavelength (850 nm) / Long wavelength (1310 nm) / Extra long wavelength (1550 nm)

⁴ >2000 meters for engineered links

⁵ Low water peak Single-Mode suitable for CWDM use complies with ITU G.652.c/d

Mohawk reserves the right to change specification in the interest of product enhancement.

MOHAWK

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