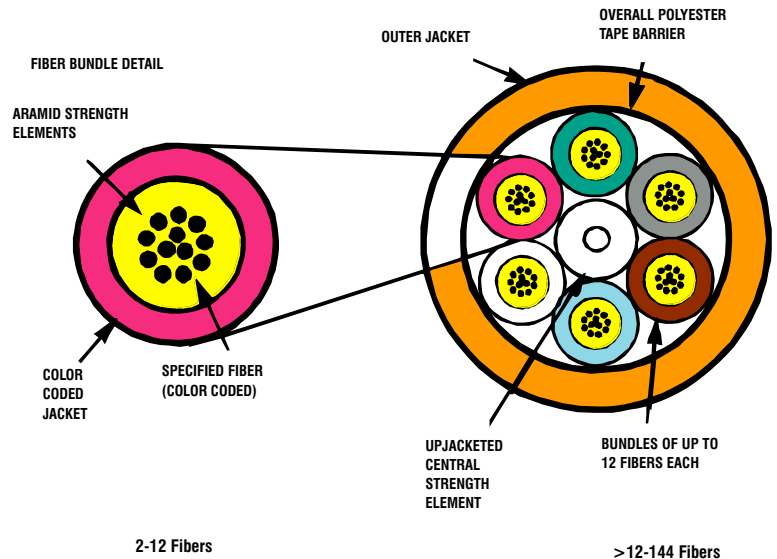


Distribution Plenum

Plenum UL/c(UL) Type OFNP/OFN FT6

DESCRIPTION

MOHAWK'S INDOOR TIGHT BUFFER DISTRIBUTION PLENUM 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. BUFFERS ARE THEN SURROUNDED BY ALL-DIELECTRIC ARAMID STRENGTH MEMBERS FOR MAXIMUM STRENGTH AND 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 OFNP/OFN FT6. MOHAWK'S DISTRIBUTION PLENUM 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
- FLAME RETARDANT
- UL LISTED FOR CODE COMPLIANCE

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.	--	0°C TO +60°C
• STORAGE TEMP.	--	-40°C TO +80°C
• UL/C(UL) RATED	TYPE OFNP/OFN FT6	
• FLAME RESISTANCE	UL 910	PASSED

Distribution Plenum

Plenum UL/c(UL) Type OFNP/OFN FT6

Part Number	Fiber Count										
		mm	in.	kg/km	lbs/M'	cm	in.	cm	in.	Newtons	lbs.
M9X043	2	4.67	.184	21	14	7.0	2.8	4.7	1.8	801	180
M9X044	4	4.42	.174	19	13	7.0	2.8	4.7	1.8	867	195
M9X045	6	4.83	.190	24	16	7.6	3.0	5.1	2.0	1201	270
M9X046	8	5.64	.222	28	19	8.5	3.3	5.6	2.2	1201	270
M9X048	12	5.72	.225	33	22	8.6	3.4	5.8	2.3	1334	300
M9X611*	24	8.38	.330	60	40	12.4	4.9	8.4	3.3	1735	390
M9X612	24	12.52	.493	132	89	19.0	7.5	12.6	5.0	5618	1263
M9X614	36	15.09	.594	199	134	22.6	8.9	15.0	5.9	8509	1913
M9X616	48	15.21	.599	195	131	22.9	9.0	15.2	6.0	5538	1245
M9X620	72	19.15	.754	293	197	28.7	11.3	19.1	7.5	9310	2093
M9X623	96	22.96	.904	399	268	34.5	13.6	22.9	9.0	9608	2160
M9X621	144	26.59	1.047	543	365	39.9	15.7	26.7	10.5	16,213	3645

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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