

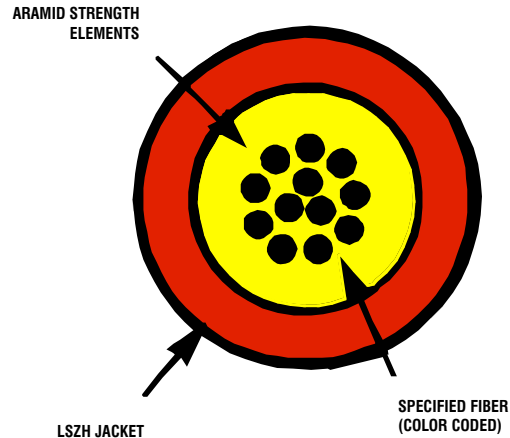


# Distribution LSZH

## Low Smoke Zero Halogen Riser UL/c(UL) Type OFNR/OFN FT4

### DESCRIPTION

MOHAWK'S INDOOR TIGHT BUFFER LOW SMOKE ZERO HALOGEN DISTRIBUTION FIBER OPTIC CABLE CONSISTS OF INDIVIDUALLY THERMOPLASTIC COLOR CODED 900 $\mu$ 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 WITH MINIMAL ELONGATION. THE CORE IS THEN PROTECTED WITH AN OVERALL UV-RESISTANT, FLAME-RETARDANT COLOR 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 LOW SMOKE ZERO HALOGEN DISTRIBUTION CABLES ARE OFFERED IN ALL GRADES OF MULTIMODE AND SINGLE-MODE UP TO 144 FIBERS.



### PRODUCT FEATURES/BENEFITS

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

### APPLICATIONS

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

### MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

● CRUSH RESISTANCE	(EIA-455-41)	2000 N/cm
● IMPACT RESISTANCE	(EIA-455-25)	2000 IMPACTS W1.6 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

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Part Number	Fiber Count	Outside Diameter		Weight		Min. Bend Radius				Max. Load (Installation)	
		mm	in.	kg/km	lbs/M'	Short Term		Long Term		Newtons	lbs.
M9X100	2	4.7	.184	22	15	7.1	2.8	4.6	1.8	800	180
M9X101	4	5.1	.200	25	17	7.6	3.0	5.1	2.0	867	195
M9X102	6	5.6	.220	31	21	8.4	3.3	5.6	2.2	1201	270
M9X103	8	6.0	.235	36	24	8.9	3.5	6.1	2.4	1201	270
M9X104	12	6.5	.255	43	29	9.7	3.8	6.6	2.6	1334	300

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

### Optical Characteristics

Meets or exceeds ISO/IEC 11801

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

<sup>1</sup> OFL – Overfilled Launch

<sup>2</sup> Effective Modal Bandwidth, determined by RML or DMD performance specifications

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

<sup>4</sup> >2000 meters for engineered links

<sup>5</sup> 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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