

ArmorLite

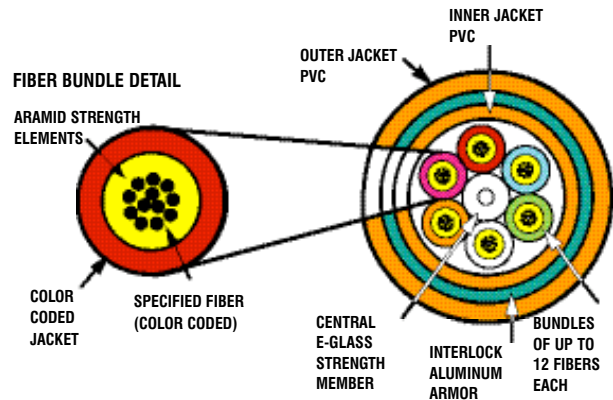
Plenum UL/c(UL) Type OFCP/OFC FT6

DESCRIPTION

MOHAWK'S INTERLOCKING ARMOR FIBER OPTIC CABLE CONSISTS OF A 2 TO 144 INDIVIDUAL 900 μm TIGHT BUFFERED FIBER CORE, SURROUNDED BY A SPIRALLY WRAPPED INTERLOCKING ALUMINUM ARMOR. A SECOND LAYER OF COLORED UV AND FLAME RETARDANT PVC JACKET PROVIDES ENHANCED CRUSH AND IMPACT CABLE PERFORMANCE. THESE CABLES ARE FLEXIBLE FOR EASE OF INSTALLATION AND ARE AVAILABLE IN BOTH RISER OFCR AND PLENUM OFCP LISTED DESIGNS. MOHAWK CAN INTERLOCK ARMOR WITH JUST ABOUT ANY OF OUR FIBER OPTIC CABLES, LIKE OUR PLENUM RATED LOOSE TUBE VERSALITE™, OFFERING A COMPLETE CUSTOM SOLUTION. ALSO, THE INTERLOCKING ARMOR CAN ELIMINATE THE NEED FOR PLENUM INNERDUCT, THEREBY REDUCING LABOR COSTS WITH ONLY ONE PULL NEEDED. THE ARMOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR THE LOCAL BUILDING CODE REQUIREMENTS. MOHAWK'S ARMORLITE FIBER OPTIC CABLES ARE AVAILABLE IN ALL GRADES OF MULTIMODE AND SINGLE-MODE GLASS WITH A VARIETY OF SPECIALTY OPTIONS SUCH AS ABS APPROVED LOW SMOKE ZERO HALOGEN JACKETS AND MANY JACKET COLORS.

PRODUCT FEATURES/BENEFITS

- EXCELLENT MECHANICAL PROTECTION
- HEAVY DUTY CONSTRUCTION
- ELIMINATES NEED FOR INNERDUCT
- VERSIONS AVAILABLE FOR OUTSIDE PLANT
- COLORED ARMORED AVAILABLE



APPLICATIONS

- INDUSTRIAL ENVIRONMENTS
- RUGGED INSTALLATIONS
- MINING SHAFTS
- TELECOMMUNICATIONS AND DATA TRUNK
- REPLACEMENT FOR INNERDUCT
- BELOW DATA CENTER ACCESS FLOOR

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

● CRUSH RESISTANCE	(EIA-455-41)	200 N/cm
● IMPACT RESISTANCE	(EIA-455-25)	2000 IMPACTS W/3 N-m
● MIN. BEND RADIUS	LONG TERM	15X CABLE
● MIN. BEND RADIUS	SHORT TERM	20X CABLE
● OPERATING TEMP.	--	-20°C TO +70°C
● INSTALLATION TEMP.	--	0°C TO +60°C
● STORAGE TEMP.	--	-40°C TO +70°C
● UL/c(UL) RATED	TYPE OFCR / OFC FT4	
● FLAME RESISTANCE	UL 1666	PASSED
● UL/c(UL) RATED	TYPE OFCP / OFC FT6	
● FLAME RESISTANCE	UL 910	PASSED

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Plenum UL/c(UL) Type OFCP/OFC FT 6

Plenum (riser versions also available)

Part Number	Fiber Count	Outside Diameter		Weight		Min. Bend Radius				Max. Load (Installation)	
		mm	in.	kg/km	lbs/M'	Short Term		Long Term		Newton	lbs.
M9X240	6	12.2	.481	134	90	24.4	9.6	18.3	7.2	1201	270
M9X241	12	12.85	.506	153	103	25.7	10.1	19.3	7.6	1334	300
M9X242	24	16.03	.631	225	151	32.0	12.6	24.1	9.5	1735	390
M9X243	24	19.84	.781	201	135	39.6	15.6	29.7	11.7	5618	1263
M9X244	36	22.38	.881	460	309	44.7	17.6	33.5	13.2	8509	1913
M9X245	48	22.38	.881	439	295	44.7	17.6	33.5	13.2	5538	1245
M9X246	72	26.19	1.031	644	433	52.3	20.6	39.4	15.5	9310	2093
M9X247	96	30.63	1.206	905	608	61.2	24.1	46.0	18.1	9608	2160
M9X248	144	33.81	1.331	1022	687	67.6	26.6	50.8	20.0	16213	3645

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	
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. OFL¹ Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	—
Min. Laser² 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/E³)	300/2000	300/2000	300/2000	300/2000	300/2000	5000/—
1 Gigabit Ethernet Min. Link Length (meters S/L/E³)	300/550	500/1000	600/600	1000 ⁴ /600	1000 ⁴ /600	5000/—
10 Gigabit Ethernet Min. Link Length (meters S/L/E³)	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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