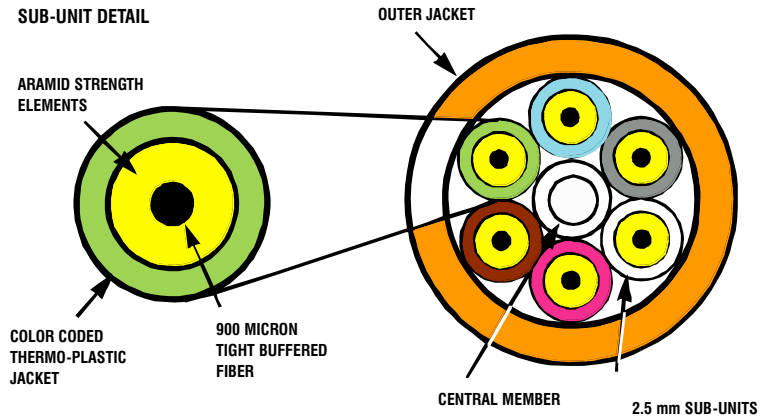


# Breakout Plenum

2.5 mm sub-units  
UL/c(UL) Type OFNP/OFN FT6

## DESCRIPTION

MOHAWK'S RUGGED INDOOR TIGHT BUFFER PLENUM BREAKOUT CABLES CONSIST OF INDIVIDUALLY THERMOPLASTIC COLOR CODED 900 $\mu$ m BUFFERED FIBERS. EACH BUFFERED FIBER IS THEN PROTECTED WITH ARAMID YARN FOR SUPERIOR TENSILE AND CONNECTOR RETENTION PROPERTIES AND AN OVERALL COLOR CODED FLEXIBLE THERMOPLASTIC JACKET IS APPLIED. THE 2.5mm OD BREAKOUTS ARE THEN CABLED AROUND A CENTRAL STRENGTH MEMBER WITH AN OVERALL ARAMID OR POLYESTER TAPE BINDER. THE CORE IS THEN PROTECTED BY AN OVERALL COLORED PLENUM RATED THERMOPLASTIC JACKET WHICH MEETS ALL THE REQUIREMENTS OF UL/cUL TYPE OFNP/OFN FT6. MOHAWK'S TIGHT BUFFER PLENUM BREAKOUT CABLES ARE OFFERED IN ALL GRADES OF MULTIMODE AND SINGLE-MODE UP TO 36 FIBERS.



## PRODUCT FEATURES/BENEFITS

- 900  $\mu$ m TIGHT BUFFERED FIBERS
- COLOR CODED FOR EASY TERMINATION
- FLAME RETARDANT
- UL LISTED FOR CODE COMPLIANCE
- DIRECT CONNECTORIZATION

## APPLICATIONS

- PLENUM AND RISER BACKBONE CABLING
- WORK AREA CABLING
- COMPUTER ROOM CABLING
- FACTORY FLOOR AUTOMATION

## 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.	--	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

# Breakout Plenum

2.5 mm sub-units  
UL/c(UL) Type OFNP/OFN FT 6

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.
M9X029	2	6.88	.271	39	26	10.4	4.1	6.9	2.7	801	180
M9X030	4	7.72	.304	58	39	11.4	4.5	7.6	3.0	1535	345
M9X031	6	8.84	.348	82	55	13.2	5.2	8.9	3.5	2700	600
M9X032	8	10.36	.408	113	76	15.5	6.1	10.4	4.1	2700	600
M9X033	10	11.94	.470	149	100	17.9	7.1	11.9	4.7	2700	600
M9X034	12	11.96	.471	119	80	17.9	7.1	11.9	4.7	2700	600
M9X035	18	14.12	.556	179	120	21.1	8.3	14.2	5.6	2700	600
M9X036	24	16.94	.667	234	157	25.4	10.0	17.0	6.7	2700	600

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
<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)

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

<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

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