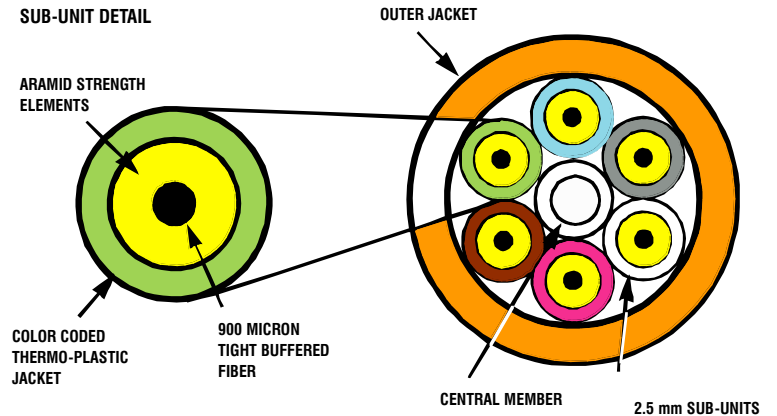


# Breakout Riser

## 2.5 mm sub-units UL/c(UL) Type OFNR/OFN FT4

### DESCRIPTION

MOHAWK'S RUGGED INDOOR TIGHT BUFFER RISER BREAKOUT CABLE CONSISTS 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 RISER RATED THERMOPLASTIC JACKET WHICH MEETS ALL THE REQUIREMENTS OF UL/cUL TYPE OFNR/OFN FT4. MOHAWK'S TIGHT BUFFER RISER 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
- MSHA APPROVED CABLES ARE AVAILABLE
- ABS LSZH AVAILABLE

### APPLICATIONS

- INTRABUILDING 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 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

# Breakout Riser

## 2.5 mm sub-units UL/c(UL) Type OFNR/OFN FT4

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.
M9X021	2	7.62	.300	45	30	11.4	4.5	7.6	3.0	1068	240
M9X022	4	9.17	.361	64	43	13.7	5.4	9.1	3.6	1535	345
M9X023	6	10.67	.420	104	70	15.9	6.3	10.6	4.2	2700	600
M9X024	8	12.14	.478	135	91	18.2	7.2	12.1	4.8	2700	600
M9X025	10	13.72	.540	202	136	20.6	8.1	13.7	5.4	2700	600
M9X026	12	15.60	.614	220	148	23.4	9.2	15.6	6.1	2700	600
M9X027	18	15.75	.620	205	138	23.6	9.3	15.7	6.2	2700	600
M9X028	24	17.98	.708	271	182	26.9	10.6	18.0	7.1	2700	600

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)

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

# MOHAWK

9 Mohawk Drive, Leominster, MA 01453  
(978) 537-9961 • 1-800-422-9961 • FAX (978) 537-4358  
info@mohawk-cable.com www.mohawk-cable.com