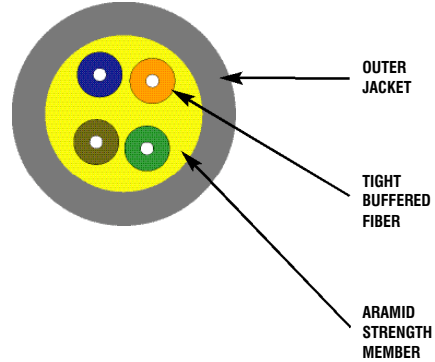


# Tactical Cables

## DESCRIPTION

TACTICAL FIBER OPTIC CABLES ARE DESIGNED FOR HARSH OUTDOOR ENVIRONMENTS WHERE MAXIMUM PERFORMANCE AND RELIABILITY IS ESSENTIAL. THE 900  $\mu\text{m}$  TIGHT BUFFER OPTICAL FIBER CABLES FEATURE LIGHT WEIGHT BUT EXCEPTIONALLY STRONG ARAMID YARN STRENGTH MEMBERS WHICH GIVES THE CABLE ITS SUPERIOR STRENGTH TO WEIGHT RATIO BENEFITS. THE CORE IS PROTECTED BY A SUNLIGHT, ABRASION AND CUT-THROUGH RESISTANT POLYURETHANE OUTER JACKET. THE JACKET ALSO PROVIDES FOR A BROAD RANGE OF ENVIRONMENTAL OPERATING CONDITIONS DOWN TO  $-55^{\circ}\text{C}$ . MOHAWK'S TACTICAL FIBER CABLES ARE OFFERED IN ALL GRADES OF MULTIMODE AND SINGLE-MODE UP TO 12 FIBERS WITH A VARIETY OF SPECIALTY OPTIONS SUCH AS DUAL FIBERGLASS ARMORED AND MANY JACKET COLORS.



## PRODUCT FEATURES/BENEFITS

- RUGGED JACKET
- SMALL AND LIGHTWEIGHT
- DURABLE DESIGN FOR REPEATED DEPLOYMENT
- DESIGNED TO MILITARY STANDARDS
- SUPERIOR LEVEL OF CRUSH RESISTANCE

## APPLICATIONS

- MILITARY COMMUNICATIONS
- MINING AND INDUSTRIAL APPLICATIONS
- OUTDOOR SPORTING, NEWS OR OTHER BROADCAST EVENTS
- ENG VEHICLES
- RE-DEPLOYABLE AUDIO/VIDEO COMMUNICATIONS

## MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

● CRUSH RESISTANCE	(EIA-455-41)	440 N/cm
● IMPACT RESISTANCE	(EIA-455-25)	200 IMPACTS W/2.2 N-m
● FLEXURE	(EIA-455-104)	2000 CYCLES MIN.
● MIN. BEND RADIUS	LONG TERM-NO LOAD	8X CABLE DIAMETER
● MIN. BEND RADIUS	SHORT TERM-LOAD	15X CABLE DIAMETER
● OPERATING TEMP.	(EIA-455-3)	$-55^{\circ}\text{C}$ TO $+85^{\circ}\text{C}$
● STORAGE TEMP.	(EIA-455-3)	$-70^{\circ}\text{C}$ TO $+85^{\circ}\text{C}$

# Tactical Cables

## Single-Mode Multimode (62.5/125 Grade 2)

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.
						cm	in.	cm	in.		
M96566	2	5.3	.210	28	19	8.3	3.2	4.3	1.7	1468	330
M96571	2	5.3	.210	28	19	8.3	3.2	4.3	1.7	1468	330
M96639	4	5.7	.225	28	19	8.6	3.4	4.6	1.8	1468	330
M96551	4	5.7	.225	28	19	8.6	3.4	4.6	1.8	1468	330
M96567	6	6.1	.240	36	24	9.1	3.6	4.8	1.9	1468	330
M96572	6	6.1	.240	36	24	9.1	3.6	4.8	1.9	1468	330
M96568	8	6.3	.250	39	26	9.7	3.8	6.4	2.5	1468	330
M96573	8	6.3	.250	39	26	9.7	3.8	6.4	2.5	1468	330
M96569	10	6.7	.265	42	28	10.2	4.0	6.9	2.7	1468	330
M96574	10	6.7	.265	42	28	10.2	4.0	6.9	2.7	1468	330
M96570	12	6.5	.255	36	24	9.7	3.8	5.1	2.0	1468	330
M96575	12	6.5	.255	36	24	9.7	3.8	5.1	2.0	1468	330

Shaded parts are multimode; non-shaded parts are single-mode. 50 µm is also available by special order.

### 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>f</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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