

Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	-46°C to +85°C
OPERATING	-46°C to +85°C
STORAGE	-55°C to +85°C

Tactical Tight Buffered Cable

AFL Tactical Tight Buffered Cables are ideal for use in installations where extreme environmental conditions are present. Designed to be deployed and retrieved in the field, AFL's Tactical Tight Buffered Cables are highly resistant to damage caused by repeated impacts crushing forces, abrasion and extreme temperatures.

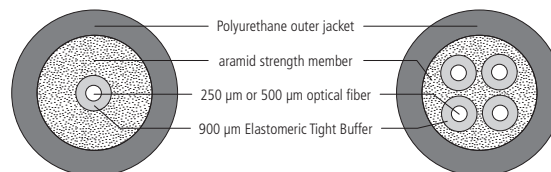
Features

- Cut resistant polyurethane jacket with flame retardant options available
- Highly flexible construction allows for multiple deployments
- All aramid strength members
- Performance in wide temperature range
- High impact and crush resistance
- Durable in high traffic areas
- MIL-PRF-46291 qualified fiber available (-RH designation)
- Tested to meet MIL-PRF-85045

Applications

- Field deployment in abusive environments
- Temporary installation of critical communications lines where quick retrieval and re-use is necessary
- High Traffic areas
- Security and Sensing applications
- Broadcast deployments
- Installations in harsh environments

Cable Components



Specifications

CHARACTERISTIC	TEST PROCEDURE	PERFORMANCE
Tensile and elongation	EIA/TIA-455-33	
Operating tensile strength	EIA/TIA-455-33	
Low-temp flexibility	EIA/TIA-455-37	
Cyclic flexing	EIA/TIA-455-104	2000
Crush resistance	EIA/TIA-455-41	1800 N/cm or greater
Impact	EIA/TIA-455-25	200
Temperature cycling	EIA/TIA-455-3	-46°C to 85°C
Temperature/humidity cycling	EIA/TIA-455-5 Method B	
Life aging	EIA/TIA-455-4	
Freezing water immersion	EIA/TIA-455-98	



Rodent-deterrent Jacket
Option Available



Tactical Tight Buffered Cable

Mechanical Data

AFL NO.	FIBER COUNT	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES	(MM)	LBS/1000FT	(KG/KM)	LBS (N)		INCHES (CM)	
						INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
X%001*301#0H	1	0.12	(3.0)	5.4	(8)	135 (600)	40 (178)	1.8 (4.5)	1.2 (3.0)
X%001*401#0H	1	0.16	(4.0)	9.1	(13.5)	180 (800)	54 (240)	2.4 (6.0)	1.6 (4.0)
X%001*461#0H	1	0.18	(4.6)	12.2	(18.1)	180 (800)	54 (240)	2.7 (6.9)	1.8 (4.6)
X%002*551#0H	2	0.22	(5.5)	16.2	(25)	400 (1780)	130 (578)	2.2 (5.5)	1.1 (2.8)
X%004*551#0H	4	0.22	(5.5)	16.2	(25)	400 (1780)	130 (578)	2.2 (5.5)	1.1 (2.8)
X%002*581#0H	2	0.23	(5.8)	21.5	(32)	400 (1780)	130 (578)	3.4 (8.7)	2.3 (5.8)
X%004*581#0H	4	0.23	(5.8)	21.5	(32)	400 (1780)	130 (578)	3.4 (8.7)	2.3 (5.8)
X%006*611#0H	6	0.24	(6.1)	22.2	(33)	400 (1780)	130 (578)	3.6 (9.2)	2.4 (6.1)
X%008*641#0H	8	0.25	(6.4)	28.8	(44)	470 (2090)	160 (712)	2.5 (6.4)	1.3 (3.2)
X%012*641#0H	12	0.25	(6.4)	30.8	(47)	470 (2090)	160 (712)	2.5 (6.4)	1.3 (3.2)
X%024*851#0H	24	0.33	(8.5)	38.7	(59)	670 (2980)	220 (979)	3.3 (8.5)	1.7 (4.3)

Note: Diameter and weight subject to change without notice

Replace percent (%) in AFL No. with corresponding jacket type below.

- 1 = Tactical Polyurethane
- 2 = Flame Retardant Polyurethane
- 3 = LSZH Polyurethane
- 4= StrataJac® Tactical+ Encapsulation

Replace asterisk (*) in AFL No. with corresponding fiber type below.

- 5 = 50/125 µm multimode GIGA-Link™ 600
- 6 = 62.5/125 µm multimode GIGA-Link™ 300
- 9 = Single-mode
- K = SM Futureguide SR-15e Bend Insensitive
- L = 50/125 µm OM3
- C = 50/125 µm OM4

Replace hashtag (#) in AFL No. with jacket color. See Tactical Cable Ordering Guide on page 23.

500 µm primary coated fiber available.

Customer specified print available.

See Tactical Cable Ordering Guide on page 23 for AFL No. designations.