



## Tactical<sup>+</sup> Tight Buffered Cable

AFL's new Tactical<sup>+</sup> fiber optic cables with StrataJac<sup>®</sup> encapsulation set a new standard for extreme environments. The Tactical<sup>+</sup> cable combines the performance of a rugged industrial jacket compound with the reliability of a military cable design. This new tactical design provides superior abrasion resistance when compared to traditional industry leading military cables. Tested beyond standards, the unique Tactical<sup>+</sup> fiber optic cables offer a low friction, tough, abrasion resistant encapsulation that will outlast any cable on the market. Available in single and double jacketed configurations with extra aramid yarn or glass yarn reinforcement AFL Tactical<sup>+</sup> cables are virtually indestructible.

### Features

- Superior abrasion and cut resistance
- High impact resistance for unforeseen trauma to cables
- Performance in wide temperature ranges
- Extremely durable outer jacket enables survivability in deployment and retrieval applications
- Resistant to the harshest industrial chemicals
- Aramid strength members for exceptional pull strength
- Available in a wide range of fiber types and channel counts
- Compatible with AFL's rodent deterrent additive for extra protection against rodent attacks

### Applications

- Outside Broadcast
- Military
- Security
- Direct burial with rodent deterrent additive
- Instrumentation and control
- Pipeline and industrial asset monitoring
- Oil and gas

### 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	>4,000 N/cm by design
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	



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## Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIAMETER inches (mm)	WEIGHT lbs/1000 ft (kg/km)	TENSION lbs (N)		MINIMUM BEND RADIUS inches (cm)	
				INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
X4002*551#0H	2	0.22 (5.5)	18.8 (28)	400 (1780)	130 (578)	3.4 (8.5)	1.68 (4.3)
X4004*551#0H	4	0.22 (5.5)	18.8 (28)	400 (1780)	130 (578)	3.4 (8.5)	1.68 (4.3)
X4006*611#0H	6	0.24 (6.1)	21.5 (32)	400 (1780)	130 (578)	3.7 (9.4)	1.85 (4.7)
X4012*641#0H	12	0.25 (6.4)	26.2 (39)	470 (2090)	160 (712)	4.3 (10.8)	2.13 (5.4)

Note: Diameter and weight subject to change without notice

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 = AFL Bend Insensitive SMF (ITU G.652.D/G.657.A1)
- L = 50/125 μm OM3
- C = 50/125 μm OM4

500 μm primary coated fiber available, replace H in AFL number with number corresponding below.

- G = 500 μm Coated Optical Fiber
- H = 250 μm Coated Optical Fiber

Replace hashtag (#) in AFL No. with jacket color. See Tactical Cable Ordering Guide on page 17.

Customer specified print available.

See Tactical Cable Ordering Guide on page 17 for AFL No. designations.

## Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
EIA/TIA	EIA/TIA-455-33, EIA/TIA-455-37, EIA/TIA-455-104, EIA/TIA-455-41, EIA/TIA-455-25, EIA/TIA-455-3, EIA/TIA-455-5 Method B, EIA/TIA-455-4, EIA/TIA-455-98	Fiber Optic Cable

## Temperature Specifications

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

Contact AFL for further details.