



Tactical Copper/Fiber Composite Cable

AFL's tactical copper/fiber composite cables are ruggedized and easy to use in rapid deployment networks and other applications requiring high mechanical performance standards, environmental exposure, or dynamic end use where low voltage power and high speed fiber optic communications are combined. Constructed as a breakout style cable, each optical fiber has enhanced protection in an elastomeric sub-cable jacket. Additionally, each electrical conductor is constructed utilizing high strand count copper with premium ETFE insulation. Offered in a tactical breakout cable construction, AFL's tactical copper/fiber composite cable offers excellent tensile strength, crush resistance, impact resistance, bending performance and a wide operating temperature range. And with AFL's selection of tactical cable jacket materials, the cable can be used in applications requiring exposure to UV, moisture, industrial chemicals or confined spaces.

Features

- Highly flexible for rapid deployment and ease of installation
- Ruggedized tactical cable design for operating in harsh conditions
- Combination power and fiber minimizes number of cables and saves space
- Supports all formats of high speed optical networking

Applications

- Military
- Broadcast
- Petrochemical
- Rail
- Mining

Performance Data—Testing per MIL PRF 85045

CHARACTERISTIC	PERFORMANCE
Testing per Installation Tensile Load	540 lbs
Operating Tensile Load	135 lbs
Min. Bend Radius Short Term	7.8 cm
Min. Bend Radius Long Term	3.9 cm
Operating Temperature	-55°C to +85°C
Storage Temperature	-60°C to +85°C
Crush Resistance	2000 N/cm of cable OD
Impact Resistance	200
Flex Resistance	2000



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Ordering Information

AFL NO.	MAXIMUM ATTENUATION (dB/km)			OVERFILLED LAUNCH MINIMUM BANDWIDTH (MHz-km)		1 GIGABIT ETHERNET MINIMUM LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MINIMUM LINK DISTANCE (METERS)	
	850 nm	1300 nm	1550 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm (Serial)	1300 nm (Serial)
B%002*201#XH-2CU16	N/A	0.5	0.5	N/A	N/A	N/A	N/A	N/A	N/A

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

- 1 = Tactical Polyurethane
- 2 = Flame Retardant Polyurethane
- 3 = LSZH Polyurethane
- 4 = Stratalac® 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.