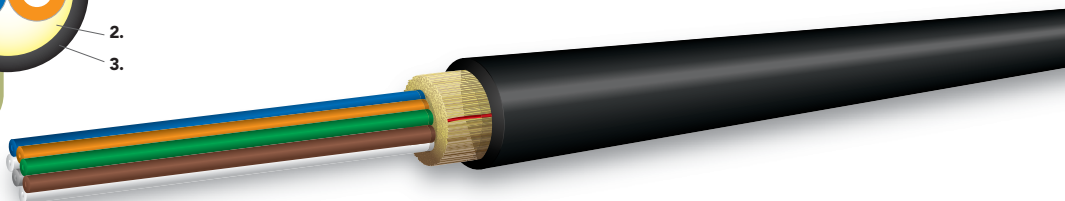


(3.5a) D-Series Distribution Mil-Tac Cables

1. Tight-Buffer Optical Fiber
2. Aramid Strength Member
3. Core-Locked™ Outer Jacket



Applications

- Ground-tactical cable that is ideal for use in harsh environments where deployment and retrieval for reuse are required

Features

- Extremely strong, lightweight, rugged, survivable tight-buffered cables designed for military tactical field use and commercial applications
- Compact, round cable design for ease of transportation and deployment
- Core-Locked™ jacket for improved mechanical performance
- Designed for use in adverse environments where reduced size and weight are important
- Helically stranded cable core for flexibility, deployment survivability and exceptional mechanical protection for the optical fibers
- Cables have been tested and are in use in military data communications applications worldwide
- Can be used outdoors for temporary deployment directly on the ground in all terrains, including severe environments
- Suitable for industrial, mining and petrochemical environments
- Crush resistant and resilient with a thick layer of aramid strength members
- Polyurethane jacketed for abrasion, cut and chemical resistance
- Most commonly used with ruggedized multiway military tactical field connectors, for maximum connector retention (400 lbs.)
- Tactical Polyurethane (C) outer jacket material is standard; Flame-retardant Tactical (V) and Low-Smoke Zero-Halogen (G) outer jacket materials are available
- Ultra-Fox Plus Fiber (500µm) used for environmental and mechanical protection

OCC Provided Options

- Mil-Tac cables prespooled on deployable reels for a ready-to-use product
- Mil-Tac cables can be pre-terminated with single fiber or ruggedized multichannel connectors upon request

Mechanical and Environmental Performance

	(TESTED TO MIL PRF 85045 METHODS)
Operating temperature	-55°C to +85°C
Storage temperature	-70°C to +85°C
Impact resistance	200 impacts (EIA/TIA-455-25A military requirements)
Crush resistance	440 N/cm (TIA/EIA-455-41A military requirements)
Flex resistance	2,000 cycles (TIA/EIA-455-104A military requirements)

(3.5a) D-Series Distribution Mil-Tac Cables



Cable Characteristics: D-Series Mil-Tac Cables (C Jacket)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
2	5.0 (0.20)	21 (14)	1,800 (400)	600 (130)	5.0 (2.0)	2.5 (1.0)
4	5.5 (0.22)	27 (18)	1,800 (400)	600 (130)	5.5 (2.2)	2.8 (1.1)
6	6.0 (0.24)	32 (22)	1,800 (400)	600 (130)	6.0 (2.4)	3.0 (1.2)
8	6.5 (0.26)	37 (25)	1,800 (400)	600 (130)	6.5 (2.6)	3.3 (1.3)
10	6.5 (0.26)	38 (26)	2,100 (470)	700 (160)	6.5 (2.6)	3.3 (1.3)
12	6.5 (0.26)	41 (28)	2,100 (470)	700 (160)	6.5 (2.6)	3.3 (1.3)
18	7.5 (0.30)	48 (32)	2,400 (540)	800 (180)	7.5 (3.0)	3.8 (1.5)
24	8.5 (0.33)	60 (40)	3,000 (670)	1,000 (220)	8.5 (3.3)	4.3 (1.7)

D-Series Mil-Tac Cables (V Jacket)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
2	5.0 (0.20)	24 (16)	1,800 (400)	600 (130)	5.0 (2.0)	2.5 (1.0)
4	5.5 (0.22)	29 (19)	1,800 (400)	600 (130)	5.5 (2.2)	2.8 (1.1)
6	6.0 (0.24)	34 (23)	1,800 (400)	600 (130)	6.0 (2.4)	3.0 (1.2)
8	6.5 (0.26)	39 (26)	1,800 (400)	600 (130)	6.5 (2.6)	3.3 (1.3)
10	6.5 (0.26)	40 (27)	2,100 (470)	700 (160)	6.5 (2.6)	3.3 (1.3)
12	6.5 (0.26)	43 (29)	2,100 (470)	700 (160)	6.5 (2.6)	3.3 (1.3)
18	7.5 (0.30)	51 (34)	2,400 (540)	800 (180)	7.5 (3.0)	3.8 (1.5)
24	8.5 (0.33)	63 (42)	3,000 (670)	1,000 (220)	8.5 (3.3)	4.3 (1.7)

D-Series Mil-Tac Cables (G Jacket)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
2	5.0 (0.20)	22 (15)	1,800 (400)	600 (130)	5.0 (2.0)	2.5 (1.0)
4	5.5 (0.22)	28 (19)	1,800 (400)	600 (130)	5.5 (2.2)	2.8 (1.1)
6	6.0 (0.24)	33 (22)	1,800 (400)	600 (130)	6.0 (2.4)	3.0 (1.2)
8	6.5 (0.26)	38 (26)	1,800 (400)	600 (130)	6.5 (2.6)	3.3 (1.3)
10	6.5 (0.26)	39 (26)	2,100 (470)	700 (160)	6.5 (2.6)	3.3 (1.3)
12	6.5 (0.26)	42 (28)	2,100 (470)	700 (160)	6.5 (2.6)	3.3 (1.3)
18	7.5 (0.30)	49 (33)	2,400 (540)	800 (180)	7.5 (3.0)	3.8 (1.5)
24	8.5 (0.33)	62 (42)	3,000 (670)	1,000 (220)	8.5 (3.3)	4.3 (1.7)

 (3.5a) D-Series Distribution Mil-Tac Cables

Ordering Information

	D	-								5	K	M
Digit No:	1	2	3	4	5	6	7	8	9	10	11	12
1 – 2	Mil-Tac Distribution Series Ultra-Fox Plus= D-											
3 – 5	Fiber count: (See Cable Characteristics Chart) = 002-024											
6	Jacket type:											
	Tactical Polyurethane = C											
	Low-Smoke Zero-Halogen Polyurethane = G											
	Tactical Flame-Retardant Polyurethane = V											
7 – 9	Fiber type: (see Ultra-Fox Plus Fiber Performance Table, p.24)											
10	Ultra-Fox Plus Fiber with 900µm tight-buffer = 5											
11	Jacket color: Black = K											
12	Rating: Mil-Tac Cable Rating = M											

Example: 12-fiber Mil-Tac distribution cable using 62.5µm fiber, black jacket –

D	-	0	1	2	C	W	S	T	5	K	M
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