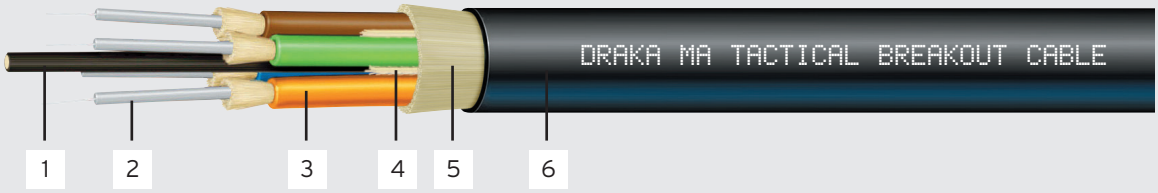
Field Deployable Tactical Breakout Cable

tight buffer construction / 2 to 36 fibers / single-mode or multimode



Applications

Field Deployable Tactical Breakout Fiber Optic cables are designed for military communications, weapons control, remote control links and operation in severe environments. They have been extensively tested and used by armed forces worldwide.

Breakout cables are used when a more rugged cable is desired. Significant labor savings in connectorization can be achieved as well.

Rugged tight buffered fibers are strengthened with aramid yarn and jacketed with water, sunlight, chemical and abrasion-resistant polyurethane. These cables are tough and very flexible for repeated deployment/retrieval applications such as field communications. Field deployable cables are compatible with most mil-style multi-channel connectors. Fibers are color coded for easy identification.

Features

MADE IN THE USA

Extremely rugged for rapid/repeated deployment

Very flexible

Easily reeled and unreeled

Lightweight

2.0 mm breakout diameter, other sizes available

Construction

1. CENTRAL STRENGTH MEMBER

Flexible aramid yarn overcoated with polyurethane.

2. FIBER

Multimode or singlemode fibers with a rugged 900 micron tight buffering colored per TIA/EIA 598.

3. SUBUNIT JACKET

Flame-retardant colored olefinic thermoplastic elastomer.

4. STRENGTH MEMBER

Aramid yarn.

5. STRENGTH MEMBER

Aramid yarn.

6. SHEATH

Flame-retardant polyurethane.

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Part Number	Number of Fibers	Installation (Short Term) Pull Strength Lbs (Newtons)	Installation (Short Term) Bend Radius in (cm)	Operating (Long Term) Tension Lbs (Newtons)	Operating (Long Term) Bend Radius in (cm)	Vertical Rise ft (meters)	Cable O.D. in (mm)	Approx. Cable Weight Lbs/Mft (Kg/Km)
S756T-02R-XXY	2	490 (2180)	4.3 (10.9)	120 (490)	2.1 (5.4)	2824 (861)	0.268 (6.8)	34 (51)
S756T-04-XXY	4	490 (2180)	4.8 (12.3)	120 (490)	2.4 (6.1)	2824 (861)	0.302 (7.7)	34 (51)
S756T-06-XXY	6	600 (2700)	5.5 (14.0)	132 (600)	2.8 (7.0)	1920 (585)	0.345 (8.8)	55 (82)
S756T-08-XXY	8	600 (2700)	6.4 (16.3)	132 (600)	3.2 (8.1)	1760 (536)	0.400 (10.2)	60 (89)
S756T-12-XXY	12	600 (2700)	7.0 (17.9)	132 (600)	3.5 (10.2)	1625 (495)	0.440 (11.2)	65 (97)
S756T-18-XXY	18	600 (2700)	8.3 (21.1)	132 (600)	4.1 (10.5)	1112 (339)	0.518 (13.2)	95 (141)
S756T-24-XXY	24	600 (2700)	9.2 (23.4)	132 (600)	4.6 (11.7)	845 (257)	0.575 (14.6)	125 (186)
S756T-36-XXY	36	600 (2700)	10.8 (27.4)	132 (600)	5.4 (13.7)	660 (201)	0.675 (17.2)	160 (238)

Rad-hard fiber is qualified through DSCC under MIL-PRF-49291. See www.dscc.dla.mil for qualified suppliers.

Fiber Performance

Replace XXY in the part number above with your fiber requirements:

Multimode Designation	Min. Bandwidth 850nm/1300nm	Max. Attenuation 850nm/1300nm
50G (rad-hard)	500/500	3.50/1.50
50H	500/500	3.50/1.50
50GBE (10Gb)	1500/500	3.20/1.50
62X	200/500	3.50/1.00
62E1	300/600	3.50/1.00*
62G (rad-hard)	350/800	3.50/1.50

* Mode conditioning patch cords not required

Single Mode Designation	Max. Attenuation 1310nm/1550nm
010X	0.70/0.70
010N (rad-hard)	1.0/1.0

Environmental Specifications

Description	FOTP	Requirements
Operating Temp	EIA-455-3	-55°C to 85°C
Storage Temp	EIA-455-3	-65°C to 85°C

Mechanical Specifications

Description	FOTP	Requirements
Crush Resistance	EIA-455-41 MIL	440 N/cm
Impact Resistance	EIA-455-25 MIL	200 impacts
Cyclic Flexing Test	EIA-455-104 MIL	2000 Cycles

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