

Military breakout series Fibre optic cable



OSA Military breakout series Fibre optic cable is the ideal cable solution for applications where the ability to deploy, retrieve and redeploy fibre cable is essential. Military cable is a flexible and extremely rugged cable design with excellent mechanical and environmental protection characteristics. The 2.0mm jacketed subcables allow for convenient termination and are perfectly suited for preterminated harsh environment connectorisation.



The quality and performance of the cable makes it perfectly suited to military, broadcast, port and rail fibre networks. Available in singlemode, OM1 & OM3 multimode fibre.

KEY FEATURES

- High performance components and construction, extremely strong, lightweight, rugged & survivable
- Designed for military tactical field use and commercial applications
- Polyurethane jacketed for abrasion, cut & chemical resistance
- Core-Locked™ outer jacket design for installation survivability, longterm, trouble free service
- Crush resistant & resilient, with two separate layers of aramid strength members
- 2.0/2.5mm subcables can be direct-terminated with standard connectors
- Ultra fox plus 500mm secondary fibre buffer offer maximum protection
- Subcabled fibre is environmentally and mechanically protected
- Cable materials are indoor/outdoor – UV, water and fungus resistant
- Wide operating temperature range of -55°C to +85°C
- 2 to 24 fibres

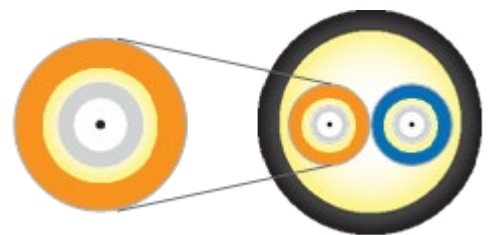
Application

- Military data & communications networks
- Broadcast & deployable connectivity
- Mine site & petrochemical
- Harsh environment networks
- Sub-zero and high temperature locations
- Underground subway stations and tunnels



Technical Specifications

Operating temp. (°C)	-55 to +85
Storage temp. (°C)	-70 to +85
Impact resistance (imp.)	200 (TIA/EIA-455-25A military requirements)
Crush resistance (N/cm)	440 (TIA/EIA-455-41A military requirements)
Flex resistance (cyc.)	2,000 (TIA/EIA-455-104A military requirements)
Applicable test methods	Tested to MIL PRF 85045 Methods



Cable Characteristics 2.0mm Subcables, Tactical Polyurethanes

Fibre Count	Diameter (mm)	Weight* (kg/km) nominal	Installation tensile load (N)	Operational tensile load (N)	Min. bend radius installation (cm)	Min. bend radius long term (cm)
2	6.5	36	2200	550	6.5	3.3
4	7.5	47	2200	550	7.5	3.8
6	8.5	55	2400	600	8.5	4.3
8	10.0	76	3200	800	10.0	5.0
10	11.5	99	4000	1000	11.5	5.8
12	11.0	86	4800	1200	11.0	5.5
18	13.5	135	7200	1800	13.5	6.8
24	14.5	150	9600	2400	14.5	7.3

Note: * Low-smoke, zero-halogen polyurethane jacket & Flame-retardant tactical polyurethane ± 5 kg/km

NSW - Silverwater

Unit 4, 52 Holker Street
Silverwater NSW 2128

E: sales@opticalsolutions.com.au

P: +61 2 9395 1400

F: +61 2 9647 0014

NSW - Sydney City

Unit 10, 10 Bradford Street
Alexandria NSW 2015

E: sydcity@opticalsolutions.com.au

P: +61 2 9304 4555

F: +61 2 9700 8055

VIC

Unit 3 / 1 Rocklea Drive
Port Melbourne VIC 3207

E: vicsales@opticalsolutions.com.au

P: +61 3 9646 4166

F: +61 3 9646 4155

QLD

Unit 2/ 40 Borthwick Ave
Murarrie QLD 4172

E: gldsales@opticalsolutions.com.au

P: +61 7 3399 5280

F: +61 7 3399 9805

ACT

22 Isa Street
Fyshwick ACT 2609

E: actsales@opticalsolutions.com.au

P: +61 2 6162 4600

F: +61 2 6162 4605

WA

28a Teddington Rd
Burswood WA 6100

E: wasales@opticalsolutions.com.au

P: +61 8 9361 7000

F: +61 8 9361 7011