

Military Tactical Distribution Cable, 4 Core, OM1

1GB 0025-02 MIL-TAC 62.5/125µm fibre

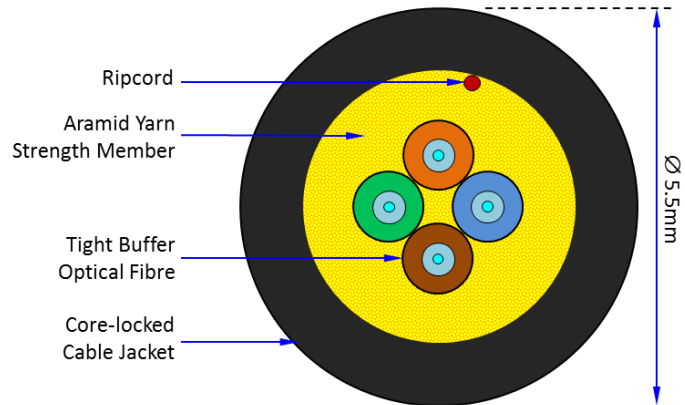
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Applications

This four core MIL-TAC cable is designed for use in harsh environment ground based systems where deployment and retrieval for re-use is required.

Features

- 4 x 900µm buffered OM1 optical fibres in a ruggedised, lightweight, cable construction.
- Designed for military tactical use.
- Compact round cable design for ease of reeling, transport and deployment.
- Core-locked jacket for improved mechanical performance
- Reduced size and weight
- Helically stranded cable core for flexibility, deployment survivability and protection of optical fibres.
- Widely deployed and tested.
- Chemically resistant - suitable for industrial, mining and petrochemical environments.
- Crush resistant and resilient.
- Polyurethane jacketed for abrasion, cut and chemical resistance.
- Compatible with most commonly used military connectors.
- PU jacket as standard – flame retardant tactical and Low Smoke Zero Halogen (LSZH) variants also available.
- Other channel counts also available.



Fibre Performance	
Industry Standard Designation	OM1 ISO/IEC 11801
Core diameter	62.5µm
Cladding diameter	125µm
Primary coating diameter	500µm
Secondary buffer diameter	900µm
Numerical Aperture	0.275
Wavelength	850 / 1300nm
Gigabit ethernet distance	275 / 550m
10-Gigabit ethernet distance	33 / 300m
Maximum cabled attenuation	3.5 / 1.5dB/km
Minimum Laser EMB Bandwidth	200 / 500 MHz-km
Minimum OFL LED Bandwidth	200 / 500 MHz-km
Proof test level	100kpsi

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Installation and Operating Characteristics

	Installation	Operating
Maximum tensile load	1,800N (400lbs)	600N (130lbs)
Minimum bend radius	5.5cm (2.2in)	2.8cm (1.1in)

Mechanical and Environmental

Impact Resistance EIA/TIA-455-25A Military Requirement	200 impacts
Crush Resistance EIA/TIA-455-41A Military Requirement	400N/cm
Flex Resistance	2,000 cycles
Operating Temperature	-55°C to +85°C
Storage Temperature	-75°C to +85°C

Cable characteristics

Jacket colour	Black
Jacket material	Flame retardant tactical polyurethane (PU)
Buffer material	Hard elastomeric
Cable weight	29 kg/km (19lbs/1000ft)
Cable diameter	5.5mm (0.22in)

- Available in 2, 4, 6, 8, 10, 12, 18 and 24 channel variants as standard.
- Contact Tech Optics for other cable configurations or constructions.



For further information and to discuss your application please contact:-

Tech Optics Ltd.

6 Tannery Road
Tonbridge
Kent
TN9 1RF
UNITED KINGDOM

TechOptics

THE FIBRE OPTICS EXPERTS

ISO9001:2015
for the manufacture
of fibre optic
assemblies and the
distribution of fibre
optic products.



T: +44(0)1732 770 466
E: sales@techoptics.com

Specifications subject to change without notice.

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www.techoptics.com