

## Features:

- Wide operating temperature range of  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Negligible attenuation changes over temperature
- Meets BMS 13-71
- Shock and vibration resistant
- Accepts military, aerospace, or telecomm connectors and termini
- 1.8mm fluoropolymer jacketing
- 915um secondary PTFE buffer diameter
- 62.5/125um Multimode core
- Tested to support humid environments



**Tensolite cabling is ideal for harsh environments including military and aerospace applications**



Commercial Aerospace

Military Tactical

Military Aerospace

Industrial and Oil & Gas

## General Description

COTSWORKS' cable assemblies using Tensolite are designed for use in aerospace applications. It contains a 62.5um OM1 fiber in a semi-loose PTFE buffer surrounded by an aramid strength member. The 1.8mm fluoropolymer jacketing provides added protection. The cable is available in higher temperature ratings up to  $+100^{\circ}\text{C}$  (termini/connector dependent).

## Tensolite Assembly Characteristics

Flammability per BMS 13-71	Pass	Minimum Operating Temperature	$-55^{\circ}\text{C}$
Smoke Generation per BMS 13-71	Pass	Maximum Operating Temperature	$+85^{\circ}\text{C}$
Toxicity per BMS 13-71	Pass	Insertion Loss (LC to ARINC 801)	$\leq 0.6 \text{ dB}$

## BMS 13-71 Specifications (Type 1, Class 1)

Core Diameter	$62.5 \pm 3\mu\text{m}$	Numerical Aperture	$0.275 \pm 0.015$
Cladding Diameter	$125.0 \pm 2.0\mu\text{m}$	Attenuation/km @850nm	$\leq 2.9 \text{ dB}$
Core-Clad Concentricity	$\leq 3\mu\text{m}$	Attenuation/km @1300nm	$\leq 0.6 \text{ dB}$
Cladding Non-Circularity	$\leq 2.0\%$	Bandwidth @850nm	$2.0 \text{ dB/Km}$
Core Non-Circularity	$\leq 5.0\%$	Bandwidth @1300nm	$4.0 \text{ dB/Km}$
Coating Diameter	$245 \pm 5\mu\text{m}$	Minimum Fiber Proof Strength	100Kpsi

## Ordering Information

Contact COTSWORKS for standard and custom cable configurations.

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