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B**

AS5382™/4

FEDERAL SUPPLY CLASS
6010

RATIONALE

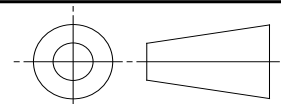
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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8D



AEROSPACE STANDARD

CABLE, FIBER OPTIC, SINGLE-MODE,
4.6/125/450 μm,
HERMETIC COATED, TIGHT BUFFER

AS5382™/4

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Documents

ISSUED 2004-04 REVISED 2006-12 STABILIZED 2021-09

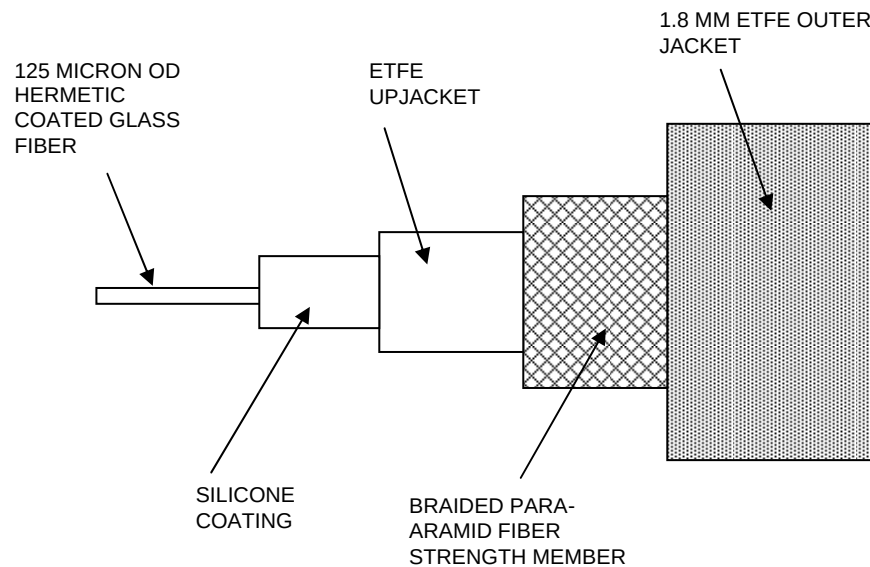


FIGURE 1 - CABLE CONFIGURATION

1. Construction Description

1.1 Optical Fiber Dimensions and Materials

Core Diameter:	4.6 μm nom. (0.00018 in)
Mode Field Diameter @ 1310 nm:	5.1 $\mu\text{m} \pm 1.0 \mu\text{m}$ (0.00020 in $\pm$ 0.00004 in)
Mode Field Diameter @ 1550 nm:	5.8 $\mu\text{m} \pm 1.0 \mu\text{m}$ (0.00023 in $\pm$ 0.00004 in)
Core Material:	Step Index Silica Glass
Cladding Diameter:	125 $\mu\text{m} \pm 2 \mu\text{m}$ (0.0049 in $\pm$ 0.00008 in)
Cladding Material:	Silica Glass
Core to Cladding Ellipticity:	2% maximum
Core to Cladding Offset:	1 μm maximum
Hermetic Coated:	Yes
Coating Diameter:	450 $\mu\text{m} \pm 25 \mu\text{m}$ (0.0177 in $\pm$ 0.001 in)
Coating Material:	Silicone
Coating Concentricity:	65% minimum

	AEROSPACE STANDARD	AS5382™/4 SHEET 1 OF 4	REV. B
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