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B**

AS5382™/2

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6010

RATIONALE

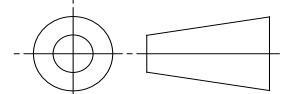
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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8D

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

CABLE, FIBER OPTIC, MULTIMODE,
100/140/172 μm GRADED INDEX,
NONHERMETIC, LOOSE TUBE

AS5382™/2

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Documents

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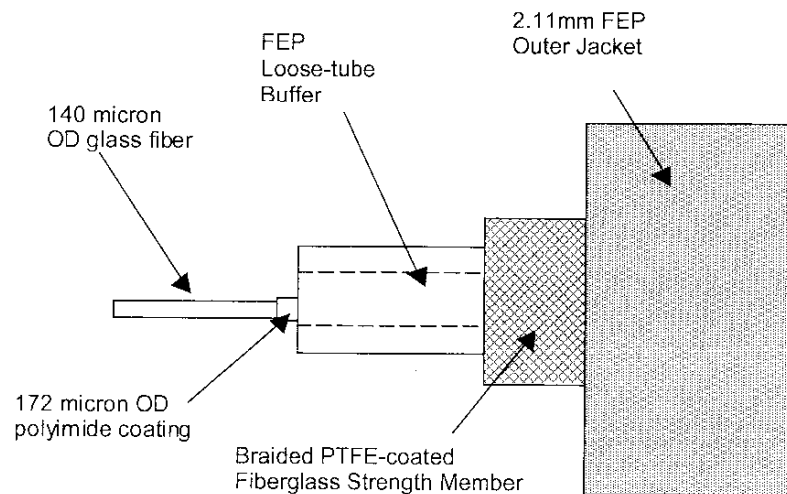


FIGURE 1 - CABLE CONFIGURATION

1. CONSTRUCTION DESCRIPTION

1.1 OPTICAL FIBER DIMENSIONS AND MATERIALS

CORE DIAMETER: $100 \pm 4\mu\text{M}$ (0.0039 ± 0.00016 IN.)
CORE MATERIAL: GRADED INDEX SILICA GLASS

CLADDING DIAMETER: $140 \pm 3\mu\text{M}$ (0.0055 ± 0.00012 IN.)
CLADDING MATERIAL: SILICA GLASS

CORE/CLADDING CONCENTRICITY: 0.94 MINIMUM

HERMETIC COATED: NO

COATING DIAMETER: $172 \pm 2\mu\text{M}$ (0.00677 ± 0.00008 IN.)
COATING MATERIAL: POLYIMIDE

CLADDING/COATING CONCENTRICITY: 0.82 MINIMUM

1.2 CABLE DIMENSIONS AND MATERIALS

BUFFER: LOOSE TUBE
INNER DIAMETER: 0.38 ± 0.025 MM (0.0150 ± 0.001 IN.)
OUTER DIAMETER: 0.76 ± 0.025 MM (0.0300 ± 0.001 IN.)
BUFFER MATERIAL: FEP

STRENGTH MEMBER: BRAIDED PTFE-COATED FIBERGLASS
COVERAGE: 90% MINIMUM
OUTER DIAMETER: $1.60 \pm .051$ MM ($.0630 \pm .002$ IN.)

OUTER JACKET DIAMETER: 2.11 ± 0.05 MM (0.083 ± 0.002 IN.)
OUTER JACKET MATERIAL: EXTRUDED FLUORINATED ETHYLENE PROPYLENE (FEP)



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