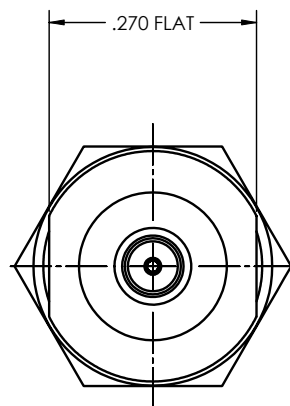
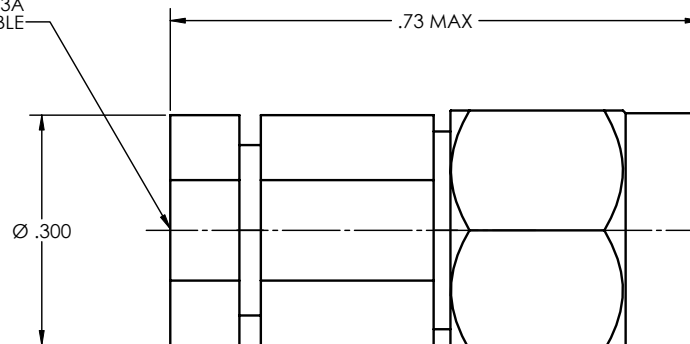


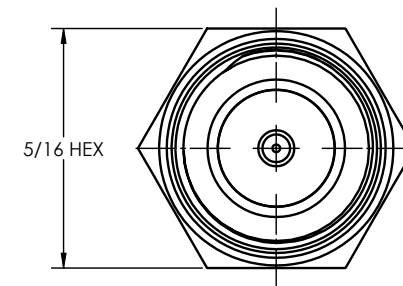
REVISION			
REV.	DESCRIPTION	DATE	BY
-	INITIAL RELEASE	01/07/11	ABN



TO ACCEPT  
TLL40-1063A  
FLEX CABLE



HIGH PERFORMANCE  
SMA MALE



#### MATERIAL(S):

Body, Nut, Retaining Bolt:  
303 SST per ASTM A-582  
Center Conductor, Cable Insert:  
BeCu Alloy per ASTM B-196  
Insulator:  
PTFE per ASTM D 1710  
Gasket:  
Silicone Rubber per A-A-59588

#### ELECTRICAL:

Impedance: 50 Ohms Nominal  
Frequency Range: DC to 26 GHz  
VSWR: 1.15 Max  
Insertion Loss:  $.035 + .0422 \times \sqrt{f \text{ (GHz)}}$  dB Max  
Working Voltage: 165 Vrms max @ Sea Level  
Dielectric Withstand Voltage: 500 Vrms  
RF HiPot Voltage: 250 Vrms min. @ 5MHz  
Corona Level: 125 Vrms @ 70,000 ft  
Insulation Resistance: 5000 Mohms  
Contact Resistance:  
Center Conductor: 2.0 Milliohms

#### MECHANICAL:

Force to Engage & Disengage:  
Torque: 2 inch-pounds max  
Longitudinal Force: NA  
Connector Durability:  
500 Cycles min. @ 12 cycles/minute max  
Coupling Proof Torque: 15 inch-pounds min.  
Coupling Mech. Retention: 60 pounds min.

#### ENVIRONMENTAL:

Temperature Range: -65°C to +165°C  
Thermal Shock:  
MIL-STD-202, Method 107, Test Condition B  
Moisture Resistance:  
MIL-STD-202, Method 106, Insulation resistance  
at least 200 MegaOhms within 5 minutes after  
removal from humidity.  
Corrosion:  
MIL-STD-202, Method 101, Test Condition B  
Vibration:  
MIL-STD-202, Method 204, Test Condition D  
Shock:  
MIL-STD-202, Method 213, Test Condition I

#### FINISH(ES):

Cable Insert & Center Conductor:  
Gold plate per ASTM B-488 over Nickel plate per AMS-QQ-N-290  
Body, Nut & Retaining Bolt:  
Passivate per ASTM A-967 or AMS-QQ-P-35

#### APPLICABLE CARLISLE IT DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	A1627

**NOTICE**  
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#### TOLERANCES AND NOTES

- EXCEPT AS NOTED  
DIMENSIONS ARE IN INCHES.  
LINEAR  $XX \pm .015$  ANGULAR  $\pm 1/2^\circ$   
FRACTION  $\pm 1/32$
- MACHINE FINISH:  $\sqrt{\text{RMS}}$
  - BREAK ALL SHARP EDGES .003 MAX.
  - MACHINED FILLETS .005 MAX.
  - MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
  - MACHINED DIAMETERS CONCENTRIC WITHIN .002 TLR.
  - DIMENSIONS TO BE MET BEFORE PLATING.
  - CHAMFER ALL THREADS 45°.
  - THREADS PER H-28
  - REMOVE FRAYED EDGES ON TEFLON.
  - REMOVE ALL BURRS.

MATERIAL		SIZE	SPECIFICATION	PROCUREMENT
APPROVAL INITIALS	DATE	<b>CARLISLE</b> Interconnect Technologies Long Beach, CA 90815		
DRAWN BY	ABN 01/07/11			
TEST ENGR	-	HIGH PERFORMANCE SMA MALE FOR TLL40-1063A		
CHECKED BY	-			
QUALITY	-	SUB-DIRECTORY/FILE NAME SHEET 1 OF 1		
DESIGN ENGR	H.N. 1/11/11			
MFG ENGR	-	CAGE CODE/ DRAWING NO. 5755-1CCSF		