

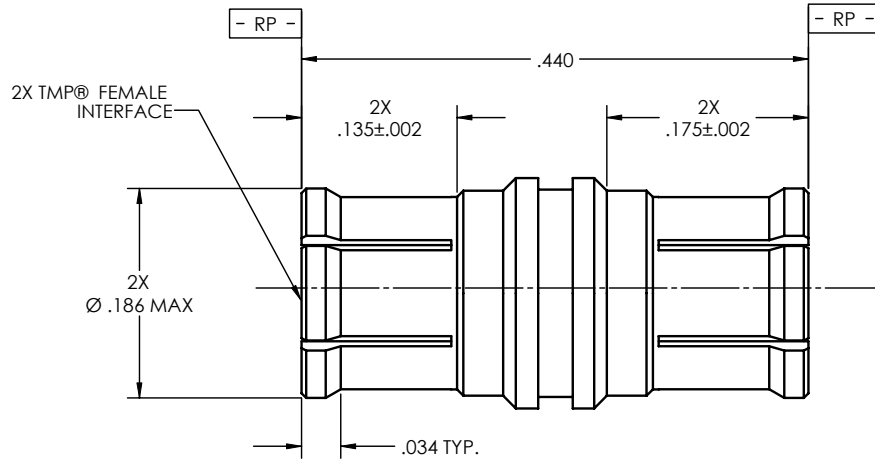
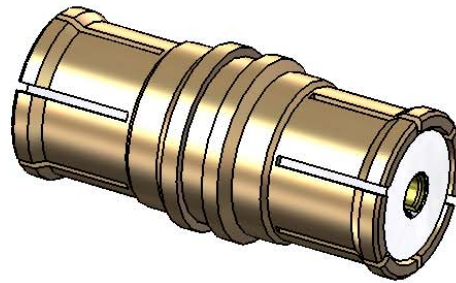
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REVISIONS			
REV	DESCRIPTION	DATE	BY
-	INITIAL RELEASE	11.10.09	DKN



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MATERIAL:

Body & Center Conductor:
BeCu alloy per ASTM B-196
Dielectric:
PTFE per ASTM D-1710

ELECTRICAL:

Impedance: 50 Ohms Nom.
Freq. Range: DC TO 18.0 GHz
VSWR: 1.05 + .005 x f (GHz)
Insertion Loss: .03√f GHz
Working Voltage: 500 Vrms max @ Sea Level
Dielectric Withstand Voltage: 1500 Vrms min.
RF HiPot Voltage: 1000 Vrms Min @ 5MHz
Corona Level: 375 Vrms @ 70,000 ft
Insulation Resistance: 1000 MegOhms min.
RF Leakage: -(80 - fGHz)dB
Contact Resistance:
Initial:
Center Contact: 2.5 Milliohms max
Outer Contact: 2.0 Milliohms max

MECHANICAL:

Mating Characteristics:
Consult Factory
Force to Engage and Disengage:
Depend on Detent
Connector Durability:
5000 mate/demate Cycles
Permeability: Less than 2.0 mu

ENVIRONMENTAL:

Temp. Range: -65°C to +165°C
Thermal Shock:
MIL-STD-202, Method 107, Test Cond. 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 Cond. B
Vibration:
MIL-STD-202, Method 204, Test Cond. D
Shock:
MIL-STD-202, Method 213, Test Cond. I

FINISH:

Body & Center Conductor:
Gold plate per ASTM B-488 over nickel underplate per AMS-QQ-N-290.

APPLICABLE TENSOLITE DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA

TOLERANCES AND NOTES EXCEPT AS NOTED

- 1. DIMENSIONS ARE IN INCHES.
- 2. LINEAR .XX ±.015, ANGULAR ± 1/2°
- 3. FRACTION ± 1/32
- 4. MACHINE FINISH ✓ RMS
- 5. BREAK ALL SHARP EDGES .005 MAX.
- 6. MACHINED FILLETS .005 MAX.
- 7. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
- 8. MACHINED DIAMETERS CONCENTRIC WITHIN .002 TIR.
- 9. DIMENSIONS TO BE MET BEFORE PLATING.
- 10. CHAMFER ALL THREADS 45°.
- 11. THREADS PER 1129.
- 12. REMOVE FRAYED EDGES ON TEFLON.
- 13. REMOVE ALL BURRS.

NOTICE
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MATERIAL		SIZE	SPECIFICATION	PROCUREMENT
APPROVAL INITIALS	DATE			
DRAWN BY	DKN	11.10.09		
CHECKED BY				
TEST ENGR				
QUALITY				
DESIGN ENGR	Pmac	11.10.09		
MFG. ENGR				
TITLE		SCALE	SUB-DIRECTORY/FILE NAME	SHEET 1 OF 1
Tensolite HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS 2400 Grand Avenue Long Beach, California 90815-1762		12:1	OL/	
DRAWING NO.		SIZE	CAGE CODE	REV.
MP541-1CC		C	30990	-

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