



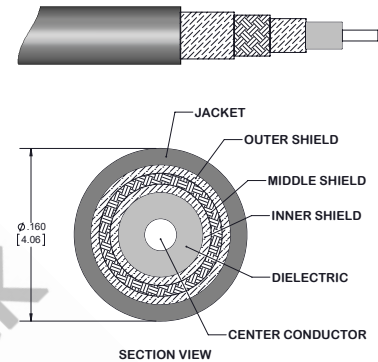
## 2.92mm Male to 2.92mm Female Test Cable 48 Inch Length Using Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

**ET13596**

#### Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Female



#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Max.)	0.97	1.38	2.05	2.97	4.47	dB
Insertion Loss (Typ.)	0.8	1.22	1.81	2.69	4.07	dB

#### Mechanical Specifications

##### Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.39 in [9.91 mm]



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Weight 0.196 lbs [88.9 g]

**Cable**

Cable Type  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 3  
 Shield Layer 1 Silver Plated Copper  
 Shield Layer 2 Aluminum Tape  
 Shield Layer 3 Silver Plated Copper  
 Jacket Material ETFE, Gray  
 Jacket Diameter 0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.8 in [20.32 mm]  
 Typical Flex Cycles 10,000

**Connectors**

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Specification		IEEE-STD-P287
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488 50µ In. Minimum	ASTM-B488 50µ In. Minimum
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel
Outer Conductor Plating Specification		SAE-AMS-2700
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 Inch	
Torque	8 in-lbs [0.9 Nm]	

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

**Environmental Specifications**
**Temperature**

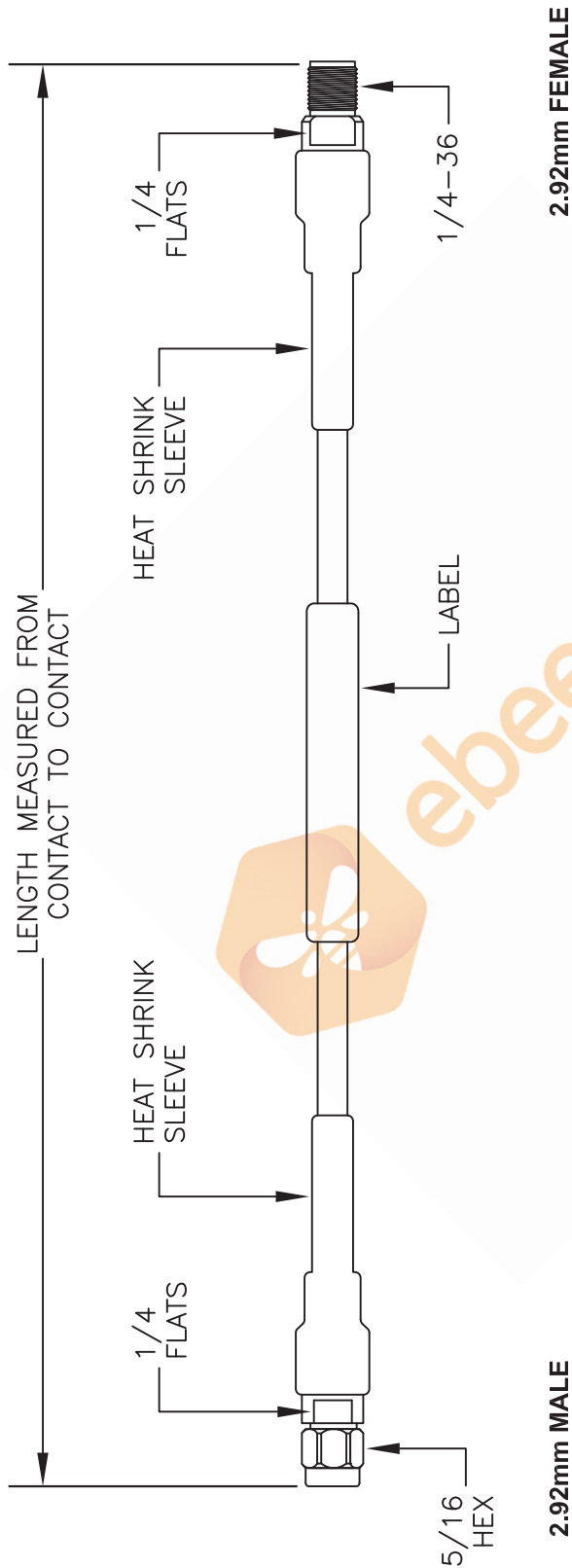
Operating Range -45 to +125 deg C

**Plotted and Other Data**
**Notes:**

- Values at 25°C, sea level.

# ET13596 CAD Drawing

2.92mm Male to 2.92mm Female Test Cable 48 Inch Length Using Coax, RoHS



**NOTE:**  
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

- NOTES:**
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**ET13596**

FSCM NO. 53919

CAD FILE 091713

SCALE N/A

SIZE A

2233

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