

**TITLE : 75 OHMS BNC STRAIGHT PLUG,  
CRIMP/CRIMP, CABLE ASSEMBLY**

C	PER ECN 0911	EMILY 96/11/14	TITLE : 75 OHM BNC STRAIGHT PLUG, CRIMP/CRIMP CABLE ASSEMBLY		
B	PER ECN 0431				
A	RELEASE		Product Specification		
REV	DESCRIPTION	SIGN			
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DOCUMENT NO <b>PS - 73598-0015</b>			Prepared By: IRIS WANG	Date: 93/03/16	SHEET NO.
			Checked By: <i>W.W.</i>	Date: 96/11/21	1 of 9
			Approved By: <i>W.W.</i>	Date: 96/11/22	

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## 1.0 SCOPE

This specification covers the performance requirements and characteristics for  
75 OHMS BNC STRAIGHT PLUG, CRIMP/CRIMP, CABLE ASSEMBLY

## 2.0 APPLICABLE DOCUMENTS SPECIFICATIONS

2.1 Per applicable Molex Material Spec. refer to Sales and Engineering Drawings.

## 3.0 PRODUCT DESCRIPTION

### 3.1 Product Name

75 OHMS BNC STRAIGHT PLUG, CRIMP/CRIMP, CABLE ASSEMBLY

### 3.2 Material

Refer to respective sales drawing

### 3.3 Finishes

Refer to respective sales drawing.

## 4.0 RATINGS

Item	Rating
Working Voltage	500 VRMS @ Sea Level
Impedance	75 Ohms Nominal
Frequency Range	dc to 2 GHz
Temperature Range ( Teflon ) (Polypropylene)	-65 deg. C to +165 deg. C -20 deg. C to +70 deg. C

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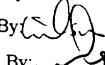
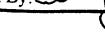
**5.0 PERFORMANCE SPECIFICATIONS**

5.1 Mating Characteristics

<u>Test Item</u>	<u>Test Spec.</u>	<u>Test Condition</u>
Force to engage and disengage	Longitudinal force: 3 pounds max. Torque: 2-1/2 inches pounds max.	
Outer Contact Insertion Force	5 pounds max.	

5.2 Electrical Performance

<u>Test Item</u>	<u>Test Spec.</u>	<u>Test Condition</u>
Contact Resistance	Center Contact: 1.5 milliohms max. initial 2.0 milliohms max. after environmentals. Outer Contact: 0.2 milliohms max.	
Insulation Resistance	5000 megohms min.	
Dielectric Withstanding Voltage	1500 volts rms. min.	at sea level

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VSWR	1.3:1 max.	0 to 2 GHz
Insertion Loss	0.20 dB max.	Tested at 2.0 GHZ

5.3 Mechanical Performance

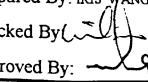
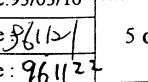
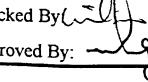
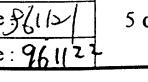
<u>Test Item</u>	<u>Test Spec</u>	<u>Test Condition</u>
Durability	a) No damage to interface b) meet the requirements of 5.1	After 500 mating cycles @ 12 cycles per minute
Contact Retention Force	6.0 pounds min.	Applicable to captivated center contact connector only.
Cable Retention Force	20 pounds min.	
Coupling Mechanism Retention Force	100 pounds min.	

5.4 Environmental Performance

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Test Item	Test Spec.	Test Condition
Corrosion (Salt Spray)	No exposure of base metal on mating surface.	MIL-STD-202F, Method 101D. Test Condition B.
Moisture Resistance	Insulation resistance should be at least 200 megohms within 5 minutes after removal from humidity.	MIL-STD-202F, Method 106F, (Less Step 7a & b)
Vibration	No discontinuity permitted when subjected to sinusoidal vibration having a 15 G excitation force and a 0.06 inch amplitude. Swept frequency range between 10 to 2000 HZ.	MIL-STD-202F, Method 204D, Test condition B
Mechanical Shock	No Discontinuity permitted when subjected to a saw tooth shock pulse of 75 G acceleration with a 6 ms duration.	MIL-STD-202F, Method 213B, Test Condition A

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GROUP I

Visual & Mechanical  
Examination



Insulation Resistance

GROUP II

Center Contact  
Retention



Corrosion

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GROUP III

V S W R



Durability

GROUP IV

Center contact resistance



Dielectric Withstanding  
Voltage



Vibration

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Mechanical Shock



Moisture



Cable Retention Force



Coupling Mechanism  
Retention Force (If  
Necessary)

GROUP V

R F Insertion Loss

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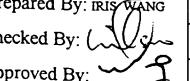
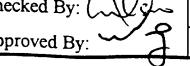
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GROUP VI

Contact Resistance

7. Packaging:

Parts shall be packaged to protect against damage during handling, transit, and storage.

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