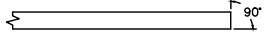
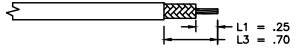
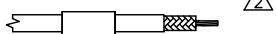


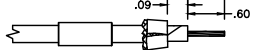




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REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
57687		N/C	NEW RELEASE	1/14/16	CAC
76556	B1	A	REMOVED ECS CLTS522		
	C1		REMOVED ECS CLTS522	7/10/20	R Lay
	C/D3		REMOVED ECS CLTS522		

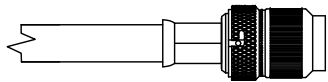
**INSTALLATION INSTRUCTIONS**

- BEGIN BY CUTTING THE CABLE OFF SQUARE.
 
- STRIP THE CABLE AS SHOWN, BEGINNING WITH L1 AND ENDING WITH L3. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. THE USE OF A STRIPPER DESIGNED FOR COAXIAL CABLE IS RECOMMENDED.
 
- SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE.
 
- USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.
 
- SLIT FOIL LONGITUDINALLY AND FOLD BACK OVER THE OUTER SHIELD.
 
- REMOVE THE DIELECTRIC FROM THE CENTER CONDUCTOR BACK APPROXIMATELY .60 INCHES FROM THE END OF THE CONDUCTOR. BE CAREFUL NOT TO NICK THE CENTER CONDUCTOR. THERMAL STRIPPERS ARE RECOMMENDED. LEAVE APPROXIMATELY .09 INCHES OF DIELECTRIC ON THE CABLE FOR THE CUP IN THE STIFFENER.
 
- INSTALL DIELECTRIC STIFFENER OVER CENTER CONDUCTOR AND THE CABLE DIELECTRIC MAKING SURE THAT CABLE DIELECTRIC IS FULLY SEATED INSIDE CUPPED END OF DIELECTRIC STIFFENER.
 
- ENSURE THAT THE CONTACT IS BUTTED AGAINST THE DIELECTRIC STIFFENER. TERMINATE CONTACT USING METHOD A OR B.
  - SOLDER CONTACT ONTO CENTER CONDUCTOR. PER MIL-STD-2000. USING 63Sn/37Pb SOLDER. CLEAN FLUX RESIDUE USING APPROPRIATE CLEANER.
  - CRIMP CONTACT ONTO CENTER CONDUCTOR USING A M22520/5-09 DIE (B HEX). IN A M22520/5-01 TOOL FRAME.
 

- SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS INTO THE RIDGE INSIDE THE CONNECTOR DIELECTRIC.
 

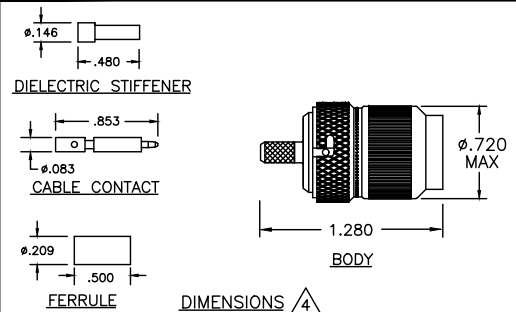
CAUTION: PUSH CABLE INTO THE CONNECTOR STRAIGHT TO AVOID KINKING THE CABLE.

- FOLD BOTH BRAIDS OVER THE NECK OF THE CONNECTOR BODY.
 

- SLIDE THE FERRULE UP OVER THE SHIELDS AND AGAINST THE CONNECTOR BODY. TRIM AWAY ANY EXCESS BRAID. CRIMP THE FERRULE ONCE, NEXT TO THE BODY, USING A M22520/5-09 DIE (A HEX) IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK.
 

**NOTES**

- ALL DIMENSIONS ARE IN INCHES.
- ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.
- ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION W1007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
- CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.



**SPECIFICATIONS**

**ELECTRICAL**  
 IMPEDANCE: 50 OHMS NOMINAL  
 FREQUENCY RANGE: 0-11 GHz  
 VSWR: 1.2:1 MAXIMUM DC TO 2GHz  
 INSERTION LOSS: .1dB MAXIMUM DC TO 2GHz  
 WORKING VOLTAGE: 500 VRMS @ SEA LEVEL  
 DIELECTRIC WITHSTANDING: 1500 VRMS @ SEA LEVEL  
 INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM @ 500 VOLTS DC

**MECHANICAL**  
 CONNECTOR INTERFACE: DIMENSIONS PER MIL-STD-348B, FIGURE 313-1  
 TERMINATION STYLE: INNER CONTACT-SOLDER OR CRIMP  
 OUTER CONTACT-FERRULE CRIMP  
 CABLE RETENTION: 15 LBS

**ENVIRONMENTAL**  
 TEMPERATURE RATING: -65° TO +165° C  
 VIBRATION: MIL-STD-202, METHOD 204, COND. B  
 SHOCK: MIL-STD-202, METHOD 213, COND. I  
 THERMAL SHOCK: MIL-STD-202, METHOD 107, COND. B  
 CORROSION: MIL-STD-202, METHOD 101, COND. B  
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

**MATERIALS**  
 BODY: BRASS PER ASTM B16  
 FERRULE: ANNEALED BRASS PER ASTM B16 OR COPPER PER ASTM B124  
 CENTER CONTACT: BRASS PER ASTM B16  
 COUPLING & BACK NUT: 303 SST PER ASTM A582  
 OUTER CONTACT: BERYLLIUM COPPER PER ASTM B196  
 DIELECTRIC: TEFLON PER ASTM D1710  
 GASKET: SILICONE RUBBER PER A-A-59588

**FINISHES**  
 BODY, FERRULE AND OUTER CONTACT: BRIGHT NICKEL PER SAE-AMS-QQ-N-290  
 CONTACTS: GOLD PER MIL-DTL-45204  
 COUPLING & BACK NUT: PASSIVATE PER SAE-AMS-2700

**ALL LENGTHS IN INCHES**

APPROVALS	DATE
DRAWN BY: CRAIG KULAS	12/3/15
CHECKED BY: R LAY	1/14/16
DESIGNED BY: R LAY	12/3/15
PROJECT ENG: C. CHAPMAN	1/14/16
ENG. MGR: D. KNOLL	1/14/16

**CARLISLE** Carlisle Interconnect Technologies  
 Franklin, WI 53132  
 414-421-5300

**TITLE: CUSTOMER SPECIFICATION**  
 LOCKING TNC STRAIGHT PLUG FOR  
 432101 AND 532101 CABLES

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197		CLTS522

SCALE: EFFECTIVITY: SHEET: 1 OF 1