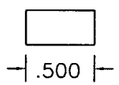
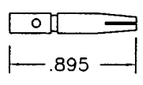
DWG NO.	SH	REV.
BTS522-I	1	A

FERRULE

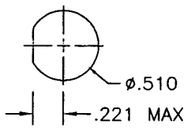


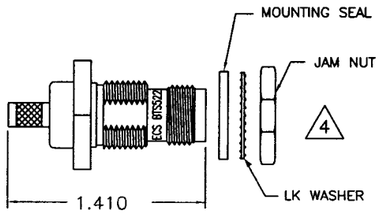
CABLE CONTACT



DIELECTRIC STIFFENER

RECOMMENDED HOLE SIZE





DIMENSIONS 3

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: DIMENSION PER MIL–STD–348A FIGURE 313–2 (TNC)
TERMINATION STYLE: CABLE CONTACT–SOLDER OR CRIMP FERRULE–CRIMP
CABLE RETENTION: 15 LBS

ENVIRONMENTAL

TEMPERATURE RATING: –65° TO +165° C
VIBRATION: MIL–STD–202, METHOD 204, COND. I
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

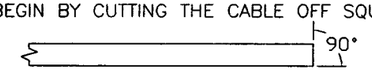
BODY: BRASS PER ASTM B16
FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124
CENTER CONTACT: BERYLLIUM COPPER PER ASTM B196
DIELECTRIC: TEFLON PER ASTM D1710
MOUNTING SEAL: SILICONE RUBBER PER ZZ–R–765

FINISHES

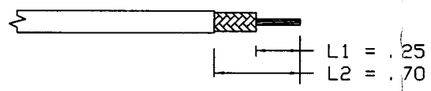
BODY, FERRULE: BRIGHT NICKEL PER QQ–N–290
CENTER CONTACT: GOLD PER MIL–G–45204

INSTALLATION INSTRUCTIONS

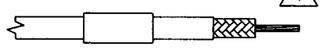
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



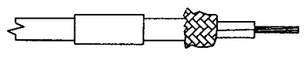
2. STRIP THE CABLE AS SHOWN, BEGINNING WITH L1 AND ENDING WITH L2. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. THE USE OF A STRIPPER DESIGNED FOR COAXIAL CABLE IS RECOMMENDED.



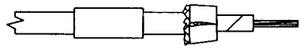
3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE. 1



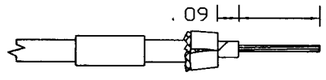
4. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



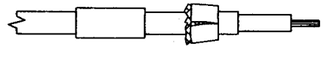
5. SLIT FOIL LONGITUDINALLY AND FOLD BACK OVER THE OTHER SHIELD.



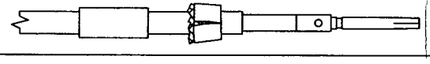
6. REMOVE THE DIELECTRIC FROM THE CENTER CONDUCTOR BACK APPROXIMATELY .60 INCHES FROM THE END OF THE CONDUCTOR. BE CAREFUL NOT TO NICK THE CENTER CONDUCTOR. THERMAL STRIPPERS ARE RECOMMENDED. LEAVE APPROXIMATELY .09 INCHES OF DIELECTRIC ON THE CABLE FOR THE CUP IN THE STIFFENER.



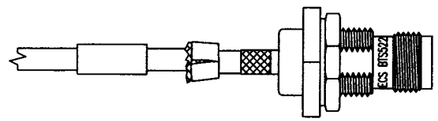
7. INSTALL DIELECTRIC STIFFENER OVER CENTER CONDUCTOR AND THE CABLE DIELECTRIC MAKING SURE THAT CABLE DIELECTRIC IS FULLY SEATED INSIDE CUPPED END OF DIELECTRIC STIFFENER.



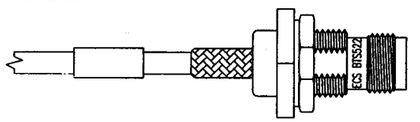
8. ENSURE THAT THE CONTACT IS BUTTED AGAINST THE DIELECTRIC STIFFENER. TERMINATE CONTACT USING METHOD A OR B.
   a) SOLDER CONTACT ONTO CENTER CONDUCTOR, PER MIL–STD–2000, USING 63Sn/37Pb SOLDER. CLEAN FLUX RESIDUE USING APPROPRIATE CLEANER.
   b) CRIMP CONTACT ONTO CENTER CONDUCTOR USING A M22520/5–09 DIE (B HEX). IN A M22520/5–01 TOOL FRAME.



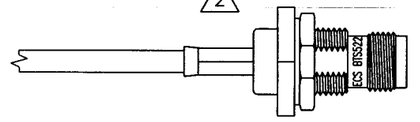
9. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS INTO THE RIDGE INSIDE THE CONNECTOR DIELECTRIC.
   CAUTION: PUSH CABLE INTO THE CONNECTOR STRAIGHT TO AVOID KINKING THE CABLE.



10. FOLD BOTH SHIELDS BACK OVER THE NECK OF THE CONNECTOR BODY.



11. 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. 2



NOTES

1. ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.
2. ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION WI007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
3. CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
4. INSTALL MOUNTING SEAL, LOCK WASHER AND JAM NUT IN ORDER SHOWN.

REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
12488	–	N/C	NEW RELEASE	12/7/00	D KNOLL
17356	–	A	CHANGED STIFFENER AND STRIPPING DIM'S	4/16/03	

ALL LENGTHS IN INCHES

APPROVALS	DATE
DRAWN BY: C CHAPMAN	9/12/00
CHECKED BY: DAVID E. KNOLL	12/17/00
DESIGNED BY:	
PROJECT ENG:	
ENG. MGR: DAVID E. KNOLL	12/17/00

ECS
ELECTRONIC CABLE SPECIALISTS
FRANKLIN, WI 53132
PHONE: (414) 421–5300

TITLE: CUSTOMER SPECIFICATION
TNC BULKHEAD JACK
FOR ECS CABLE 432101 AND 532101

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197	C	BTS522

SCALE: | FILE NO | SHEET: 1 OF 1