Contact, Socket, Triaxial Type LJT-R and TV-R Crimp
(MIL-DTL-38999 Series I & III Electrical Connectors)

Standard contact arrangements available in Series I and III are 17-2, 21-75, 21-79, 25-7, 25-17, 25-26 and 25-46. Contact is supplied with a piggyback grommet seal.

Installation Instructions

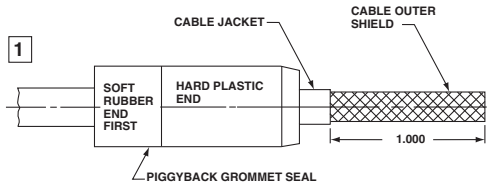
1. Slide piggyback grommet seal over the cable jacket, soft rubber end first. Strip cable jacket as shown.
2. Slide the outer crimp bushing, flange end first, over the outer cable jacket until cable jacket butts inside shoulder of crimp bushing.
3. Trim cable to .850 inches as shown.
4. Strip cable outer shield to .350 inches from end of crimp bushing. Carefully form shield back over crimp bushing as evenly as possible. Do not comb out the shield strands.
5. Trim the shield strands even to .015 inch max from front of crimp bushing forward flange.
6. Slide insulator spacer bushing, flange end first, over the cable interlayer and butt firmly against the shield strands formed over the crimp bushing end.
7. Slide the intermediate crimp bushing, flange end first, over the cable interlayer and firmly butt against the insulator spacer bushing.
8. Strip cable interlayer ahead of intermediate crimp bushing. Use caution not to cut or nick the inner shield wire strands under the interlayer.
9. Trim cable inner shield to .190 inches ahead of the intermediate crimp bushing end and carefully form strands back over crimp bushing as evenly as possible. Do not comb out the shield strands.
10. Trim shield strands even to .015 inches from front of intermediate crimp bushing flange.
11. Strip cable core .080 inches from shield formed over intermediate crimp bushing end. Do not cut or nick strands of cable center conductor when removing cable core insulation.
12. Slide front insulator, large end first, over cable center conductor and cable core until insulator butts firmly against the cable shield that is formed over the intermediate crimp bushing end. Be sure all strands of the cable center conductor appear through the end of the front insulator and that no cable intermediate shield strands have entered the rear opening of the front insulator. (An electrical check at this time may be performed to insure electrical isolation. Also after step 13.)
13. Trim fit the inner socket contact to the cable center conductor. The inner socket contact must butt against the end of the front insulator and the cable center conductor must be visible in the inner socket contact wire well inspection hole.
14. Crimp inner socket contact to cable center conductor using tool part number M22520/2-01 and Daniels Mfg. Co. tool contact positioner part number “K873”. The tool indenter selector setting shall be “3”.
15. Carefully slide the intermediate pin contact with its insulator installed, over the inner socket contact, front insulator and on over the intermediate crimp bushing and shield until the inner socket contact is firmly seated in the insulator recess of the intermediate pin contact assembly. A small gap may appear between the crimp bushing front flange and the intermediate contact end, due to contact and assembly tolerances.
16. Crimp intermediate contact and bushing flange simultaneously using tool frame part number M22520/5-01 and die set part number M22520/5-05 closure “B” (.178 hex.) Observe the crimp area shown.
    CAUTION: DO NOT PULL ON THIS ASSEMBLY AFTER CRIMPING.
17. Slide outer socket contact with insulator already installed, over the crimped intermediate pin contact, spacer insulator bushing and shield formed over rear crimp bushing, until intermediate pin contact is fully seated in the outer contact insulator recess. A small gap may appear between the crimp bushing front flange and the outer socket contact end due to contact and assembly tolerances.
18. Crimp the outer socket contact and crimp bushing simultaneously using tool frame part number M22520/5-01 and die set part number M22520/5-45 die closure “A” (.231 hex). Observe the .240 - .270 crimp length shown. Cable braid not permissible on crimp bushing shoulder during crimping.

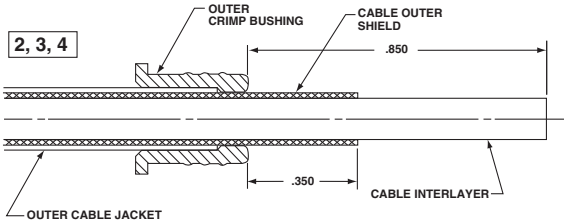
CONTACT INSERTION INTO CONNECTOR

Hand insert the contact assembly through proper grommet opening until contact firmly seats inside the connector insert cavity. Tug slightly on cable to insure contact has properly seated in the insert retention device. Slide the piggyback grommet seal down the cable until the hard plastic portion comes to a firm butt inside the grommet cavity.

CONTACT REMOVAL FROM CONNECTOR

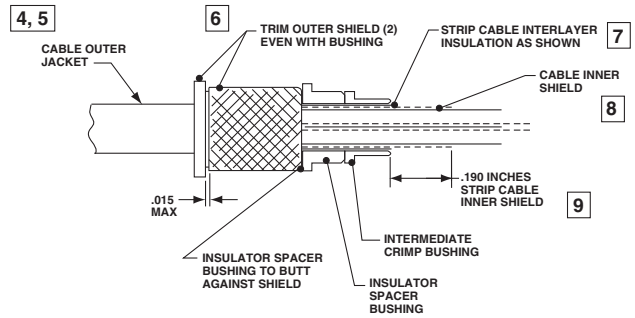
Slide the piggyback grommet seal up the cable and out of connector grommet cavity approximately 1.000 inch. Position Daniels Mfg. Co. removal tool part number “DRK264-8” around the cable jacket and slide tool down the cable until tool tips enter the rear grommet and come to a positive stop. Hold the tool tip firmly against the positive stop on the contact and grip the cable jacket and simultaneously remove tool, contact and cable.

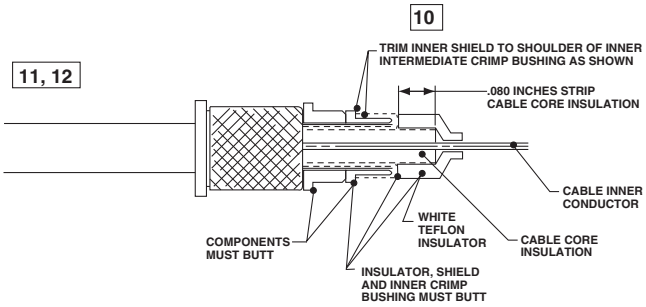


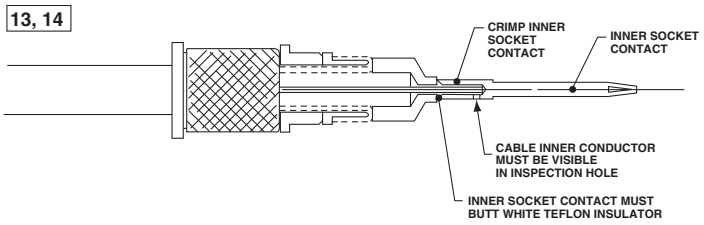


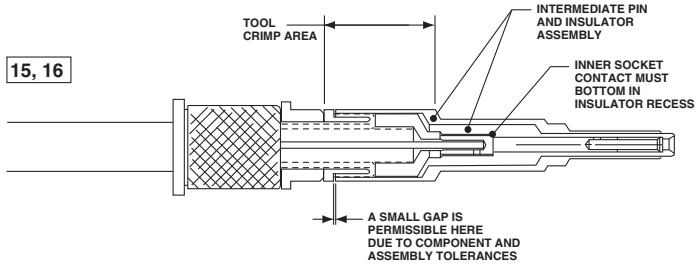
Amphenol

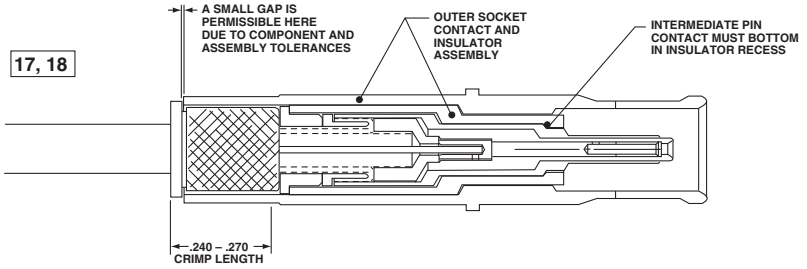
AMPHENOL CORPORATION
Amphenol Aerospace
40-60 Delaware Avenue
Sidney, New York 13838-1395
www.amphenol-aerospace.com


4, 5
6
CABLE OUTER JACKET
TRIM OUTER SHIELD (2) EVEN WITH BUSHING
STRIP CABLE INTERLAYER INSULATION AS SHOWN
7
CABLE INNER SHIELD
8
.015 MAX
.190 INCHES STRIP CABLE INNER SHIELD
9
INTERMEDIATE CRIMP BUSHING
INSULATOR SPACER BUSHING TO BUTT AGAINST SHIELD
INSULATOR SPACER BUSHING


10
11, 12
TRIM INNER SHIELD TO SHOULDER OF INNER INTERMEDIATE CRIMP BUSHING AS SHOWN
.080 INCHES STRIP CABLE CORE INSULATION
CABLE INNER CONDUCTOR
WHITE TEFLON INSULATOR
CABLE CORE INSULATION
COMPONENTS MUST BUTT
INSULATOR, SHIELD AND INNER CRIMP BUSHING MUST BUTT


13, 14
CRIMP INNER SOCKET CONTACT
INNER SOCKET CONTACT
CABLE INNER CONDUCTOR MUST BE VISIBLE IN INSPECTION HOLE
INNER SOCKET CONTACT MUST BUTT WHITE TEFLON INSULATOR


TOOL CRIMP AREA
INTERMEDIATE PIN AND INSULATOR ASSEMBLY
15, 16
INNER SOCKET CONTACT MUST BOTTOM IN INSULATOR RECESS
A SMALL GAP IS PERMISSIBLE HERE DUE TO COMPONENT AND ASSEMBLY TOLERANCES


17, 18
A SMALL GAP IS PERMISSIBLE HERE DUE TO COMPONENT AND ASSEMBLY TOLERANCES
OUTER SOCKET CONTACT AND INSULATOR ASSEMBLY
INTERMEDIATE PIN CONTACT MUST BOTTOM IN INSULATOR RECESS
.240 – .270 CRIMP LENGTH