

21-033425-861 (PIN)

21-033425-851 (SOCKET)

- F 1. Splayed inner wire pairs should match one of the illustrated wire color patterns shown. If not, grasp any non-conforming wire pair/s and untwist 180° (As close to breakout location as possible) to match the illustrated wire color pattern. Note, the mating contact should be assembled to a cable junction end matching the mirrored image of the wire color pattern used.
- G 1. Splay inner wire pairs firmly back over cable as shown, leaving one wire extended.
- 2. Strip extended inner wire insulation .115 to expose inner conductor as shown.
- H 1. Assemble inner contact over cable center conductor until fully seated against inner wire insulation. Observe center conductor through contact's wire inspection hole, to make certain conductor is properly positioned.
 - 2. Crimp inner contact to center conductor using tools listed in table (Make certain contact is seated firmly against wire insulation before crimping).
 - 3. Splay crimped contact and wire back over cable and extend second inner wire of wire pair.
 - 4. Repeat stripping of wire insulation per step G2.
 - 5. Repeat crimping of inner contact per steps H1 and H2.
 - 6. Splay crimped contact and wire back over entire cable and extend another inner wire.
 - 7. Repeat stripping of wire insulation and crimping of inner contacts per step H2 through H6 until all inner contacts are crimped (8 Total)
- I 1. Assemble the retaining ring over the inner contacts and wire pairs until sits even with the end of the folded back braid and ferrule.

I



AINING RING

SHIELD EXTENSION

CABLE

CABLE INNER WIRE G

F





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- J 1. Splay wire pairs 90 degrees from center. Insert the rear of the shield extension (Small diameter end) into the retaining ring. Ensure wire pairs aline with the trenches of the shield extension. Shield extension rear shoulder shall bottom on retaining ring.
 - 2. Lay each wire pair into shield extension trench, ensure wire pair is oriented correctly. The shield extension shall be oreiented as shown in figure I. The inner wire pair color pattern of view F must be maintained (Suggested assembly procedure: Pinch wire pairs against the base/bottom of the shield extension. Small amount of tape may be used to hold the pair within the trench).
- K 1. One-by-One, assemble wired inner contacts into rear insulator slots until fully seated as shown. Inner contact's retention undercut (Shown in view I) must be positioned to capture rear insulator's retention shoulder (Shown in view K), before fully seating inner contact. When contacts are properly seated, inner contact's retention shoulder will be positioned in front of rear insulator's front surface consecutively, followed by assembly of the two inner contacts from the opposing wire pair.
- L 1. Assemble front insulator assembly over inner contacts until rear surface of front insulator butts against retention shoulder of inner contacts as shown. The front insulator keyway must be centrally aligned with the contact pair desired at contact positions 1 & 2 (Shown in mating face view).
- 2. While the braid is folded back, cut away excess cable braid until the braid measures .255.
- M 1. Align front insulator keyway (Shown in view L) with outer contact's rivet key. Slide inner contact assembly inside outer contact assembly until fully seated. Observe contact's mating end to make certain inner contacts are aligned as shown in mating face view.
 - Fold outer braid over outer body, slide crimp ferrule forward over outer braid and contact outer body. Needle nose plyers or other tools may be used to push crimp ferrule forward. Combing out the outer braid may ease the assembly of the crimp ferrule over the braid.
 - Crimp outer contact body and crimp bushing in area shown using tools listed in table. After completing a full cycle of the crimp tool, rotate contact 45 degrees and complete another crimp cycle.
- Note: After crimping, if the crimp ferrule is flared: insert assembly back into the crimp tool, pull contact out slightly and crimp again. Ensure piggyback seal dielectric can slide over the ferrule.



Amphenol Suggested Inner Contact Numbering				
Differential Pair	Inner Contact ID			
1	1			
	2			
2	3			
	4			
3	5			
	6			
4	7			
	8			



PIN MATING FACE VIEW

-OUTER SOCKET CONTACT ORIENTATION KEYWAY



SOCKET MATING FACE VIEW

Amphenol Part		4 Pair Cable Recommended	Inner Crimp Tools		Outer Crimp Tools	
Number	Description		Tool (Setting)	Positioner	Tool	Die Set
21-033425-861	Octonet Pin (100 Ohms)	W. L. GORE	M22520/2-01 (3)	Daniels K1958	Daniels GS206	Daniels G2P1926
21-033425-851	Octonet Socket (100 Ohms)	RCN9047-26 & Others				

Contact Insertion into Connector

Contacts are inserted by hand. Insert the contact assembly into the proper rear grommet hole. Contact must be aligned with hole and not inserted at an angle. The contact's orientation key must be in vertical alignment with the connector's main key or keyway (holding contact key and connector key/keyway at "12 o'clock" orientation position is recommended). Push forward until contact is felt to snap into position within the insert. Contact may need to be slightly rotated to properly align contact orientation key with connector insert keyway. Gently tug on cable to assure retention.

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Contact removal from connector

Slide integrated removal tool toward connector until tool comes to a positive stop on the contact. Grip cable and simultaneously remove contact and cable