



# Compact Sealed Connectors

Stock No. 531-510, 531-526, 531-548, 531-863

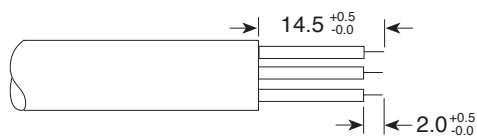
## Safety notice

It is important these instructions are fully complied with to ensure product is watertight and electrically safe.

Always wire female socket carrier to supply and make plug carrier to appliance. Plug and socket carriers can be fitted to any style of main body to give appropriate plug/socket combination for your use.

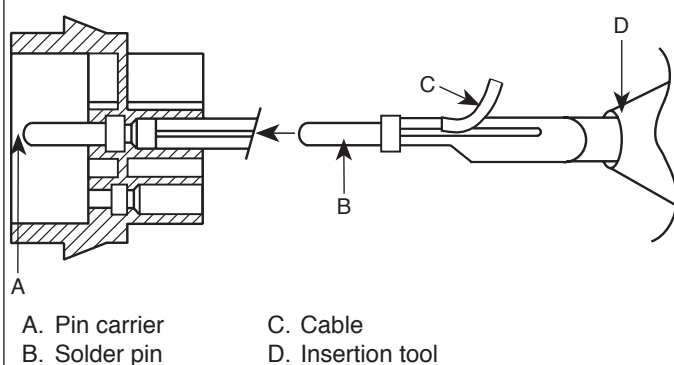
## Assembly instruction - multipole carrier

Figure 1.



1. Prepare cable to lengths shown in figure 1. Ensure correct cable lay. The cable outer diameter must be between 5 to 7mm. For compatible cable see table A.

Figure 2.

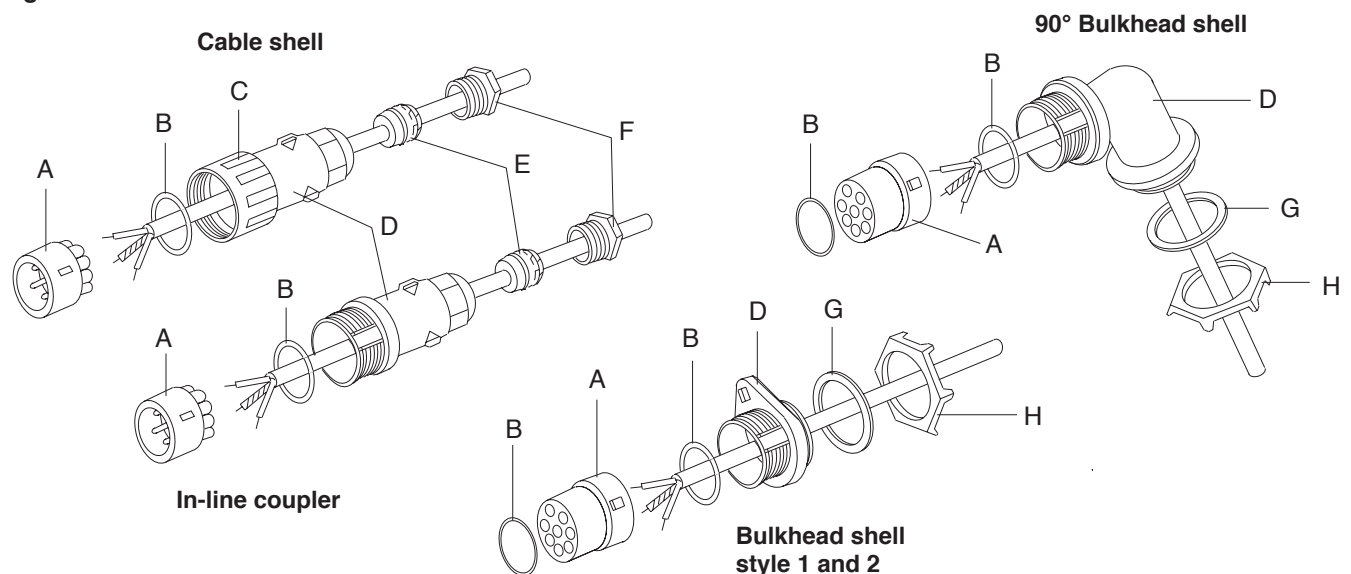


2. Thread cable through component parts as shown in figure 2.
3. Solder loose contacts onto prepared cable, load each contact into the insertion tool and insert contacts fully into the appropriate plug/socket carrier, see figure 3.
4. If mains power is to be applied, use the following connections. The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N. The wire which is coloured brown or red must be connected to the terminal marked with the letter L. The wire which is coloured green and yellow or green must be connected to the terminal which is marked with the letter E.
5. Push back the carrier into the moulded shell ensuring the "O" ring and the backing tabs snap into place. Proceed to instruction 13.

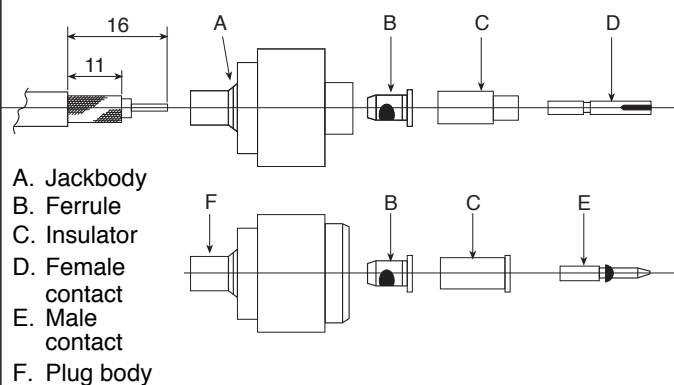
## Assembly instructions - BNC style carrier

6. Using the gland and washer supplied, thread the coaxial cable through the component parts as shown in figure 2.
  7. Prepare the cable as shown in figure 4.
  8. Crimp the centre contact onto cable centre conductor. Suitable tools **RS** stock nos. 453-870, 193-972, 456-447.
  9. Slide knurled ferrule over contact and cable dielectric and under cable braid. Snap fit insulator over centre contact.
  10. Push the plug/jack body over assembly, pressing insulator until ferrule bottoms in body.
  11. Crimp the body to secure cable braid.
- Note:** Due to the construction of the carrier when crimping the outer body/ferrule to the cable sheath, the 75Ω die position (6.48 A/F. B.S.'E') must be used on both 50Ω and 75Ω versions.
12. Snap fit the BNC carrier into the moulded shell ensuring the 'O' ring and the locking tabs are in place. Proceed to instruction 13.

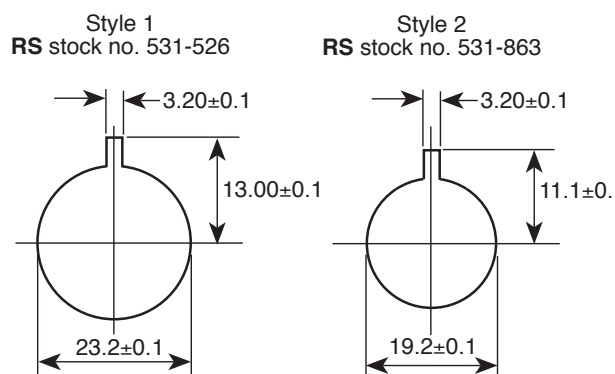
Figure 3.



**Figure 4.**



**Figure 5.**



## Assembly instructions -general

13. Push sealing gland and cable grip into the connection shell and tighten the cable retaining nut to limits of 2lb/in min., 4lb/in max.
14. For chassis/panel mount connectors, cut the appropriate hole as shown in figure 5. Maximum panel thickness 3mm. Undo the castellated nut and offer the connector body with gasket on front of panel. Secure connector using the large castellated nut to a torque limit of 6lb/in min. to 15lb/in max.
15. To ensure sealing integrity, the connector coupling nut should be tightened to a torque limit of 2lb/in min. to 10lb/in max.
16. Additional polarising blanking pins, **RS** stock no. 531-879 may be used in place of socket contacts to provide additional keying.

**Table A**

| RS stock no.                         | Description     |
|--------------------------------------|-----------------|
| 378-044, 377-940<br>377-956, 377-962 | 3-core mains    |
| 377-928                              | 2-core mains    |
| 362-976                              | 2-core 16/0.2mm |
| 362-982                              | 3-core 16/0.2mm |
| 362-998                              | 4-core 16/0.2mm |
| 363-008                              | 6-core 16/0.2mm |
| 354-032                              | 8-core 7/0.2mm  |
| 362-853                              | 8-core 7/0.2mm  |