# D65PN™ PHASE / NEUTRAL CONNECTOR KIT

THIS KIT CONTAINS:
1 Double Line Side housing with white (neutral) marking band
1 Double Load Side housing with white (neutral) marking band
3 Socket contacts
1 Pin contact (dummy fuse)
1 Assembly dowel & 1 Packet of lubricant

## INSTALLATION INSTRUCTIONS

**CAUTION - Identify LINE and LOAD sides of wiring with correct molded connector bodies before installing. The D65PN kit's neutral side is indicated with a white band. Use type U or LC contacts on copper wire only, type UA or LA contacts on aluminum wire only.**

**MAXIMUM 75°C ( 167°F) OPERATING TEMP. 600 VOLT 1/10-30 AMP (PHASE) 30 AMP (NEUTRAL)**

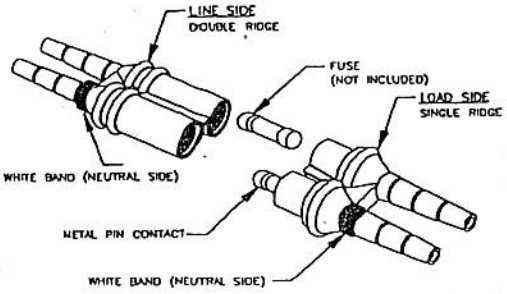
1. Measure or determine the overall diameter of cable insulation, and from diagram on the other side, select corresponding section on molded sleeve. Cut off remaining sections of housing to size required. Example: If cable O.D. is 0.270", it falls within the "C" range - cut off at notch between "B" and "C" as shown in cutaway view of assembled kit.
2. **Thoroughly clean** approximately 8" of Line Side cable to be inserted. Apply 1/4 lubricant package (do not substitute) to cable and small hole in the Line Side (receptacle) housing.
3. Insert cable through small hole in housing and push through sufficiently to allow for stripping of insulation.
4. Strip wires 3/4 inch for wire sizes 14 AWG through 10 AWG, 3/8 inch for wire sizes 8 AWG through 2 AWG (DO NOT PENCIL INSULATION). Application of oxidation inhibitor such as Ncalox® required on properly cleaned aluminum conductors. Crimp on the Line Side Socket. Make sure the stripped wire does not go beyond the end of the crimp barrel and enter the fuse socket area. (Refer to the table below for correct tool & die.) Avoid getting lubricant in the socket contacts.




| CRIMP AREA | CONDUCTOR SIZE IN AWG SOLID | CONDUCTOR SIZE IN AWG STRANDED | RECOMMENDED CRIMP TOOLS & DIES OR DIMENSIONAL EQUIVALENT |
|---|---|---|---|
| *UNIVERSAL CONTACT U or UA* | | | |
| A | 14, 12 | 14, 12 | IDEAL No. 30-429 "BARE" |
| | 10, 8 | 10 | IDEAL No. 30-429 "BARE" |
| B | 6 | 3 | IDEAL No. 30-425 large crimp area |
| | 4 | 6 | IDEAL No. 30-425 large crimp area |
| *LARGE CONTACT LC or LA* | | | |
| L | 2 | 4 | IDEAL No. 30-425 large crimp area |
| | - | 2 | IDEAL No. 30-425 large crimp area |

NOTE: ALUMINUM PARTS HAVE A SCRIBED LINE ON BARREL DIAMETER- OXIDATION INHIBITOR REQD.

5. Line Side: Place wood dowel in socket. Place free end of dowel against firm surface and push housing forward until the socket contact snaps into a locked position in the phase housing. Repeat on other side of housing. Wipe off any excess lubricant.
6. Apply a small amount of lubricant to the openings in the Load Side housing for the socket and pin contacts. Repeat step 5 with Load Side housing only once on the phase side. Push the Pin Contact in on the neutral side (marked by a white band) by placing it against a firm surface and pushing the housing until the contact pin snaps into a locked position.
7. Insert appropriately rated 1-1/2" x 13/32" fuse, 600 Volt - 30 Amp Max. (Do not use glass tube or indicating type), in the Load Side housing. **CAUTION: WHEN THE FUSE IS FULLY SEATED, THE END OF THE FUSE WILL PROTRUDE NO MORE THAN 5/8" PAST THE END OF THE HOUSING.** DO NOT APPLY LUBRICANT ON THE FUSE.
8. Lubricate mating rubber surfaces with lubricant supplied and plug the Load Side and Line Side housings together. **CAUTION: WHEN PROPERLY MATED, THE SEAM BETWEEN THE HOUSINGS SHOULD NOT EXCEED 1/32 INCH.**




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