

ELECTRICAL

TIS I, CAPTAIN CONNECTOR... HERE TO SOLVE Y'R PROBLEMS.

OH BOY.

ZOWIE!

It's the same old tune with different words, but you've heard it before . . . "For the want of a washer (or a connector, or a ferrule) the waterproof electrical system went out and the truck was lost."


You don't have to find yourself in a spot like that. No Sir-c-c-e. All you have to do is to know how to match up your connectors, FSN's, nomenclatures, and wire gage.

Remember, these electrical connectors are in addition to the Douglas and Bendix connectors you find in SM 9-4-5935-SO1 (May 62).

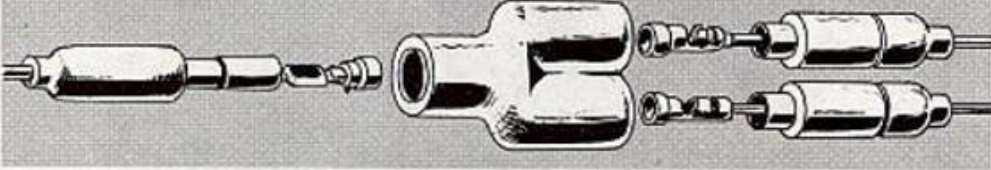
These connectors aren't listed as a kit in one SM. You'll find them listed in your DOD catalogs and supply catalogs.

FOR 14 AND 16 GAGE CABLE
(On 12-gage do not use plastic sleeve)

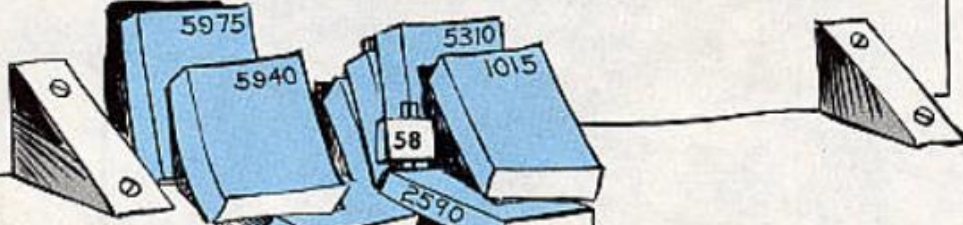
SINGLE CONNECTION



DOUBLE CONNECTION



OK, FANS! HERE'S THE SCOOP ON THESE HERE CONNECTORS...



CONNECTORS

Connector Assy "Y"
Gage Wire 12, 14, 16
FSN 5935-699-9004



Shell, Male (Rubber)
Gage Wire 16
FSN 5975-660-5962



Shell, Male (Rubber)
Gage Wire 14
FSN 5935-833-8561



Shell, Male, Ribbed
(Rubber)
Gage Wire 14
FSN 5935-399-6673



Shell, Male (Rubber)
Gage Wire 12
FSN 2590-695-9076



Shell, Female (Rubber)
Gage Wire 16
FSN 5935-691-5591



Shell, Female (Rubber)
Gage Wire 14
FSN 1015-833-8566



Shell, Female (Rubber)
Gage Wire 12
FSN 2590-695-9077



Ferrule, Electrical
Connector
Gage Wire 16
FSN 5940-057-2931



Ferrule, Electrical
Connector
Gage Wire 14
FSN 5940-057-2929



Ferrule, Electrical
Connector
Gage Wire 12
FSN 5940-057-2930



Terminal Assy (Female)
(Solder)
Gage Wire 12, 14, 16
FSN 1015-798-2997



Terminal Assy (Female)
(Crimp)
Gage Wire 12, 14, 16
FSN 5940-399-6676



Washer, "C" (Terminal
Retaining)
Gage Wire 16
FSN 5310-656-0067



Washer, (Slotted) "C"
(Terminal Retaining)
Gage Wire 14
FSN 5310-833-8567



Washer "C" (Terminal
Retaining)
Gage Wire 12
FSN 5310-595-7044



Washer, Plain,
(Terminal Retaining)
Gage Wire 12 (only)
FSN 5310-298-8903



Sleeve, Insert Plastic
Gage Wire 14, 16
FSN 5970-833-8562



In case you're not quite sure how a good connection is made, here're some hints.

You push the wire through the male shell and strip off the insulation. Then you put the stripped wire through the small hole in the washer. Next slip a terminal on the stripped wire, then crimp or solder in place.

USE WASHER
FSN 5310-298-8903



The part you use depends on the gage wire you're using (12, 14, or 16 AWG wire).

When you use the 12-gage wire you don't use the plastic sleeve with the male shell, but use washer FSN 5310-298-8903 instead.

There're two types of male shells — ribbed and plain — you can use to identify the hookups on polarized units.

The earlier type female (metal) terminals would spread so the male terminal had poor contact or none at all, so a metal ring was added to the female. The ring keeps the terminal from spreading and it keeps the terminal round so you'll get a good contact.

You'll find two female metal terminals in the supply system. They both have that metal ring. You should know how to attach the wire to each.

OLD TYPE TERMINAL



USE SOLDER

If you're using 12-gage wire, it's better to use the crimped type. You can use the soldered or crimped type with the 14 or 16 AWG wire.

When you do have to use the soldered-on type for the 12-gage wire, you have to use the small washer (FSN 5310-298-8903). Peel off the insulation far enough for slipping the washer on, bend the tabs over, and solder the wire in place. The washer goes between the insulation and terminal.

Insulating Compound, Electrical, will help when putting on or taking off the shells. It also makes the connection more waterproof. You can get the compound in a 2-oz tube (FSN 5970-224-5277), or an 8-oz tube (FSN 5970-224-5276).



INSULATING COMPOUND

Those shells don't go for that bending business. If you can't get them apart by pulling, then insert something (nothing sharp) down between the shells and pry easy-like until they come apart.



MALE SHELLS



RIBBED



PLAIN

CRIMP TYPE
TERMINAL



SOLDER TYPE
TERMINAL

