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Weather Pack - FAQs

Here are the most frequently asked questions about the Weather Pack connection system. If you require additional information, please [contact us online](#).

What is "Weather Pack"?

Weather Pack is an environmentally sealed connection system developed by Packard Electric engineers (now Delphi/Packard Electric Systems) to withstand exposure to extreme temperatures, moisture, and harsh engine compartment fluids and chemicals with unflinching performance. It consists of mating heat stabilized polyamide housings (Weather Pack "towers and shrouds"), male and female "pin and socket" Weather Pack terminals and self-lubricating silicone Weather Pack connector seals, cable seals and cavity plugs. The system is rated 0.05–16.0 VDC, 0-20A. Weather Pack connector configurations are available for one to six wires.

What does a proper Weather Pack crimp look like?



Seal loaded on stripped wire
(wire stripped 5.0mm or 3/16")



Terminal, seal and wire
(positioned to be crimped)



Crimped Weather Pack Terminal

This information is supplied from the Weather Pack Manufacturer to provide general and useful tips with installing the Weather Pack Connectors

What is the Weather Pack part number code?

The "WP..." numbers are ours. The 8-digit numbers in parentheses are Delphi/Packard Electric numbers.

What is the maximum current rating for Weather Pack connectors?

Delphi Packard Electric Systems rates Weather Pack at 0 - 20 amps maximum.

How do I choose the right size cable seal?

The choice of cable seal is determined by the insulation diameter of the wire being used. The guidelines offered below apply to Weather Pack and Sealed Metri-Pack 280 Series installations.

F or Type GPT and GXL wire, the red seal normally fits 22 gauge; the green seal normally fits 20, 18, and 16 gauge; the gray seal normally fits 14 gauge; and the blue seal normally fits 12 gauge.

For heavier wall Type SXL wire, the green seal normally fits 20 and 18 gauge; the gray seal normally fits 16 gauge; and the blue seal normally fits 14 and 12 gauge.

For thin-wall wire construction such as Type TXL, the red seal normally fits 20 gauge; the green seal normally fits 18, 16 and 14 gauge; the gray seal normally fits 12 gauge; and the blue seal normally fits 10 gauge.

The installer must be certain that the seal fits snugly over the wire insulation to maintain a proper environmental seal.

Click the "Online Catalog" button and navigate to the Useful Information page for primary wire insulation diameters and more Delphi cable seal application information.

Why is Weather Pack available in 12-gauge if the maximum current rating is only 20 amps?

The 12-gauge Weather Pack terminals are designed for signal voltages where conductor reliability is critical. A larger conductor will provide a clearer signal than a smaller one. The 12-gauge Weather Pack terminals should not be used in high-current applications that would normally use 12-gauge wire.

Is there a sealed connection system that will carry more than Weather Pack's 20 amps?

Sealed Metri-Pack 280 Series connectors will carry up to 30 amps, and are available in one-, two-, and three-wire configurations. A sealed Metri-Pack 480 Series connector set is available in a two-wire configuration that will carry up to 42 amps. A sealed Metri-Pack 630 Series connector set is available in a three-wire configuration that will carry up to 46 amps.

Why are there slits on some of the individual towers on Weather Pack tower connectors?

The slits are called **indexing slots** and they prevent mismatching. A Weather Pack tower connector will only fit the matching Weather Pack shroud connector.

What do the Weather Pack tower connector colors signify?

Colors are used with application-specific Weather Pack connectors to make them look different from the standard tower connectors. The colored connectors are designed to fit devices such as switches or sensors. They feature special indexing and are not interchangeable with the standard black tower connectors.

I'm looking for Weather Packs with flat male blade terminals or square profile female terminals. Do you have them?

The Weather Pack system uses only round pin terminals or round socket terminals. If a sealed connector without round terminals is marked "DELPHI" or "P.E.D.," it could be a Metri-Pack, a GT or a Ducon series connector. We stock many different Metri-Pack components. Send us a sample or a picture of what is needed and we can probably identify and supply your requirements.

Do I need a crimp tool made specifically for Weather Pack?

Not necessarily. Many open barrel crimp tools can perform an acceptable Weather Pack wire crimp. A Weather Pack seal crimp can be made with common slip joint pliers. Note that the seal crimp should be just firm enough to hold the seal in place. A tight seal crimp can damage the seal. Professional tools made specifically for Weather Packs crimp both the terminal and the seal in one cycle.

We are considering buying your T-12 professional crimping tool. It looks different from your other crimping tools. How is it used?

Click here for our [T-12 instruction sheet](#).

I've ordered Weather Pack terminals and connectors. Do I need anything else?

Weather Pack terminals are **ALWAYS** used with Weather Pack cable seals. One is required for each terminal, male or female. You might also want to order a Weather Pack release tool in case you need to disassemble a completed Weather Pack termination for inspection or rework. The Weather Pack release tool depresses the terminal retention barbs and allows the Weather Pack terminals to be removed from the connectors.

Where can I buy small quantities of Weather Pack material?

Weather Pack components can be found in the "Belden" line carried in the U.S. by NAPA Auto Parts stores (UAP in Canada), or at any General Motors dealership's parts department.

Why are the Weather Pack connectors called Towers or Shrouds instead of male or female connectors?

The use of the "Tower and Shroud" nomenclature eliminates confusion with gender specific connectors. Weather Pack towers are most often used with female terminals but they can also be used with male terminals. Weather Pack shrouds are most often used with male terminals but they can also be used with female terminals. It is even possible to use both male and female terminals in a single multi-circuit Tower or Shroud.

My sample is marked ">PA 66< 96". Do you stock this part?

This marking identifies the connector material Polyamide 6/6 (a.k.a. Nylon) and the mold cavity number. This is not enough information to identify a component. Delphi/Packard Electric Systems' part numbers are typically 8 digits such as "12124582."

We need to cover open Weather Pack connectors when not in use during a seasonal equipment change. Are Weather Pack covers or caps available?

No special Weather Pack covers or caps are necessary. You can make your own using a mating tower or shroud and cavity plugs in place of the terminals, wires and seals.



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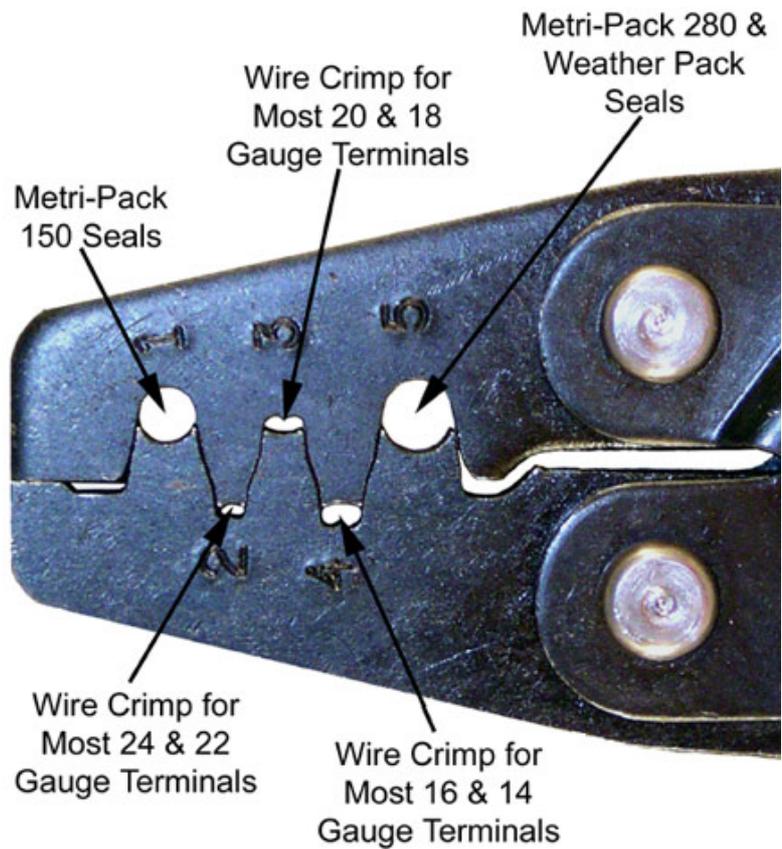
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Weather Pack - Tools

White Products supplies high-quality automotive terminal crimping and release tools to distributors for the automotive service industry. These tools are made in the United States by OEM tool manufacturers.



T-18 Weather Pack Terminal and Seal Crimper

Our T-18 crimps Weather Pack terminals and seals. Its compact, low-cost parallel jaw design eliminates terminal rocking. This tool, which is offered exclusively by White Products, also crimps Metri-Pack terminals and seals.



T-18E Five-Cavity Terminal and Seal Crimper

This is the "Easy Crimp" version of our popular T-18 tool that crimps the most common Sealed Metri-Pack 150, Sealed Metri-Pack 280, and Weather Pack terminals and seals. The new frame features a compound leverage mechanism and longer handles to provide a mechanical advantage that makes crimping a breeze.



T-12 Weather Pack Terminal and Seal Crimper Equivalent to: Delphi/Packard 12014254, SPX Kent Moore J-38852

Crimps Weather Pack terminal and seal in one cycle. Features two double cavities, an orientation block and a ratchet mechanism to ensure that each crimp cycle is completed. Factory calibrated to be used only with Weather Pack terminals and seals. Wire range 20-14.



T-13 Seal and Open Barrel Terminal Crimper
Equivalent to: Delphi/Packard 12085270,
SPX Kent Moore J-38125-6

Five cavities cover a wide variety of Weather Pack and Metri-Pack applications. Ratchet mechanism ensures that each crimp cycle is completed. Wire range 20-14.



T-17 Seal and Open Barrel Terminal Crimper

This special-purpose tool crimps 12-gauge Weather Pack terminals along with sealed Metri-Pack 280 terminals in the largest wire sizes, 12 and 10 AWG. It can also be used to perform the conductor crimp on most other open barrel terminals in the 12-10 range. The ratchet mechanism ensures that each crimp cycle is completed.



**T-3 Weather Pack Terminal Release Tool
Equivalent to: Delphi/Packard 12014012,
SPX Kent Moore J-38125-10A**

Designed solely to depress Weather Pack terminal retention bars to allow terminal removal from tower or shroud.

Weather Pack T-12 Crimping Tool Instructions

This precision tool, which is made in the USA, is designed for crimping male and female Weather Pack terminals to 14-, 16-, 18-, and 20-gauge wires (i.e., 2.0mm – 0.5mm).

①		Squeeze handles until ratchet automatically opens.
②		Hold with gauge numbers “18-20” and “14-16” facing the operator.
③		Fully insert terminal into orientation block. Inspect to confirm that terminals are not in upside down.
④		Properly position the seal on the cable.
⑤		Insert stripped conductor into terminal until first rib of seal is flush against tool. Caution should be taken not to crimp the first rib of seal.
⑥	Squeeze handles together until ratchet automatically releases and production crimp is complete.	
⑦		If a jam occurs, pull the release lever to open applicator.
⑧		A completed Weather Pack crimp should look like this.