

HTC and HTS tool kits

Wilcoxon has developed the 6Q-style connector in response to the need for a higher temperature, more reliable, underwater exposure connector for two-pin and three-pin MIL-style sensor connections. The HTC (high temperature crimp) kit is used to make crimp connections to the sockets, while the HTS (high temperature solder) kit is used where the sockets will be soldered to the wires.

When the HTS kit is used, the user must solder the sockets to the wires instead of crimping them.

Included parts

Description	Wilcoxon part	Function
High temperature epoxy	A43012	Used to 'dab' onto spring
Metal socket insertion tool	A48004	Installs connector sockets into connector body
Plastic socket insertion tool	A48005	Plastic version of A48004 (above)
Crimp positioner tool	A48006	Inserts into frame tool, crimps connector sockets (used only in the HTC crimp socket kit)
Crimp frame tool	A48007	Holds positioner tool, crimps connector sockets (used only in the HTC crimp socket kit)
Crimp tool	A48038	Crimps backshell to crimp sleeve to hold shield
Wire stripper	A61055	Strips the wire conductor insulation to length
Scissors	A61056	Use to trim shield braid and fiber strands
Exacto knife, 15 blades	A61057	Use to score and cut cable jacket
Plastic knife guard	A61058	Guards for the Exacto blades
Epoxy nozzle, EPX	A61059	Mixing nozzle, mounts on the plunger
Epoxy plunger 4:1	A61065	Holds the two-part epoxy
Epoxy applicator gun	A61066	Holds epoxy, pushes plunger to dispense epoxy into backshell
Carrying case with foam	80211-01	Holds all components of the HTC or HTS kit

Each tool kit contains three 2-oz tubes of epoxy, which is enough to assemble a maximum of approximately 75 connectors (connectors and cabling must be ordered separately). One 2-oz tube of epoxy will pot approximately 25 connectors. Keep in mind that the mixer nozzles are disposed of after one use. So, if you were to epoxy 5 connectors at the same time, you would need about 5 mixer nozzles per tube of epoxy. If you epoxy 25 connectors at the same time, you would need 1 mixer nozzle per tube of epoxy.

Visit buy.wilcoxon.com to view the [HTS tool kit](#) and [HTC tool kit](#).

HTC and HTS tool kits: Parts identifier

Epoxy nozzle (A61059), 10 each

The epoxy nozzles allow the epoxy to be directly applied from the epoxy applicator gun (A61066) without having to mix it first. The nozzle fits into a slot in the face of the gun. A new nozzle must be used for each assembly session as the epoxy will harden in the tube.

High temperature epoxy (A43012), 3 each

Used in epoxy applicator gun (A61066). One tube will do about 25 connector assemblies.

Epoxy applicator gun (A61066)

Epoxy (A43012) fits into the epoxy applicator gun which dispenses onto the backshell.

Epoxy plunger (A61065), 4:1

The epoxy plunger holds the two part epoxy and is used to push the epoxy (A43012) from the dispensing tube.

Wire stripper (A61055)

The wire stripper is used to strip the wire conductor insulation to length.

Crimp tool (A48038)

The crimp tool is used in to crimp the backshell to the crimp sleeve. This provides mechanical gripping to the cable jacket for strength.

Crimp frame tool (A48007)*

Crimp positioner tool (A48006)*

The crimp frame tool accepts the crimp positioner tool. The R6Q/R6QI assembly instructions detail the use of this tool in step 4. They are used to crimp the wire into the connector pins.

*HTC kit only

Scissors (A61056)

Scissors are used to trim the shielded braid and fiber strands.

Exacto knife (A61057), 15 blades

An Exacto knife is used to score and cut the cable jacket.

Metal socket insertion tool (A48004)

Plastic socket insertion tool (A48005), 3 each

Socket insertion tools are used to install connector sockets into the connector body. The plastic tools are provided as an alternative for some installations where the metal tool is not available.

