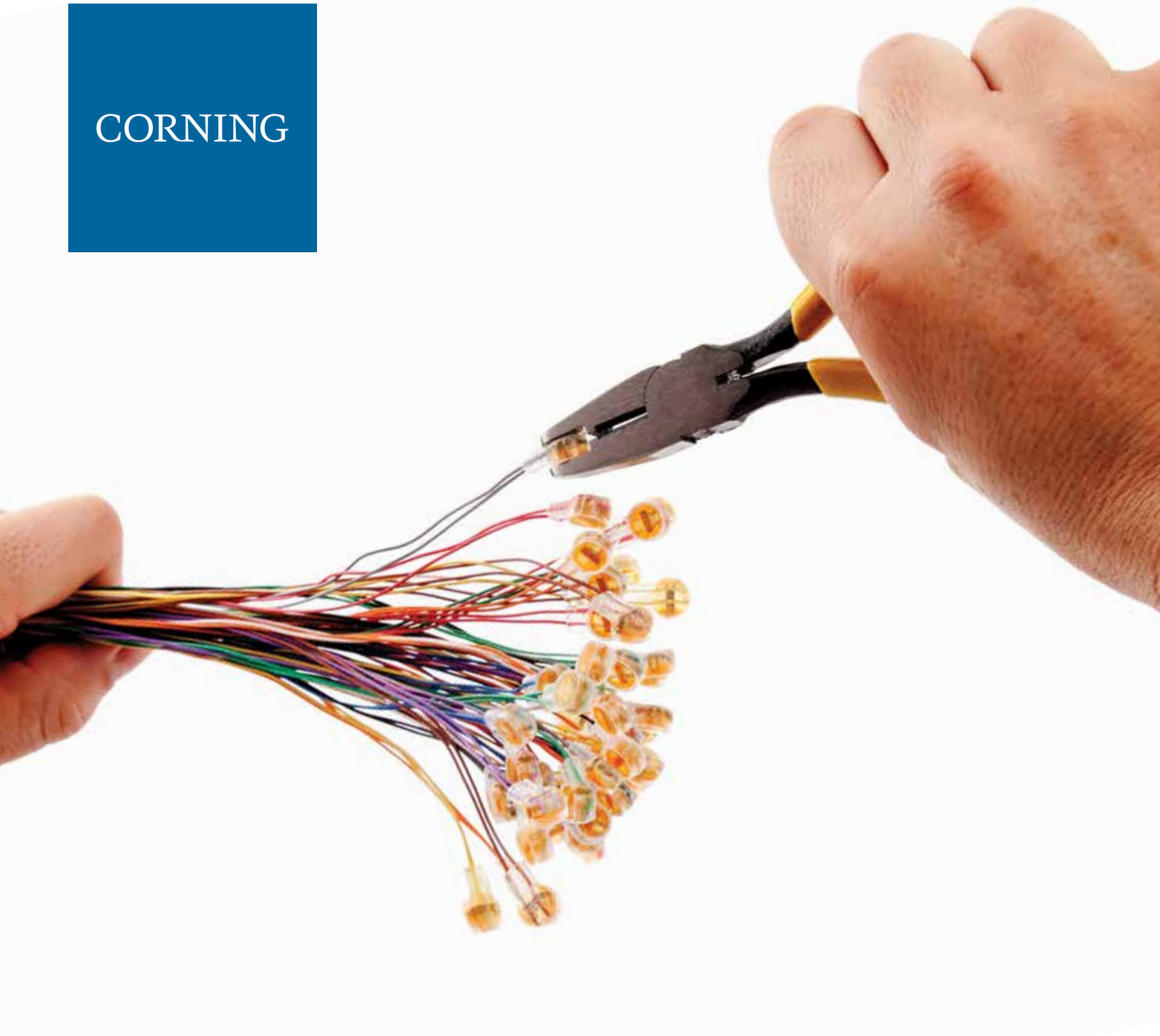CORNING

# Corning® Scotchlok™ Connectors
## Built Tough for Long-Term Connections

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# Durable, Insulated Connections on the First Crimp

With the Scotchlok™ series of tools and connectors, service providers can meet the demand for enhanced customer services such as high-speed internet, video-on-demand, and video conferencing. Scotchlok connectors also offer full wire-range capability, increased port size to accommodate up to 2.08 mm (0.082 in) insulation sizes, and solvent-resistant plastic construction.

As new technologies migrate into the local loop, the importance of reliable connections in the embedded plant has increased exponentially. Each connection is a potential point of failure in high-bandwidth applications, which could require additional time and expense for a technician to repair. That is where the full line of Scotchlok connectors can really make a difference.

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# Scotchlok™ Butt Connectors

Scotchlok™ butt connectors employ a specially designed wire-insulation displacement contact to make a reliable electrical connection to each wire. A "live-spring" joint is made by driving the wire down into the "U" contact connector. This simple process displaces the insulation and grasps all conductors with a firm, resilient pressure in an all-in-one motion. No stripping of wire insulation is required. Scotchlok butt connectors include a factory-installed sealant to protect against corrosion and seal out moisture. They are also available in a dry/flame-retardant version for central offices and vaults. A variety of sizes and wire combinations are available to accommodate almost any need.

## Scotchlok Butt Connector UR

The Scotchlok UR connector accepts two or three solid copper conductors for butt splicing. The connector is filled with a sealant to provide moisture resistance.

## Scotchlok Butt Connector UY

The small size of the Scotchlok UY connector reduces the splicing bundle outside diameter (OD) to a minimum. The connector's two ports accept two solid copper conductors. The connector is filled with a sealant to provide moisture resistance.

## Scotchlok Butt Connector UR2/UR2-D

The Scotchlok UR2/UR2-D solvent-resistant connectors accept two or three solid copper conductors that can be of different wire gauges, for butt splicing. The UR2 connectors are filled with a sealant to provide moisture resistance. The Scotchlok UR2-D connector is a dry version.

## Scotchlok Butt Connector UY2/UY2-D

The small size of the Scotchlok UY2/UY2-D solvent-resistant connectors reduces the splicing bundle OD to a minimum. Two ports accept two solid copper conductors that can be of different wire gauges. The connector is filled with a sealant to provide moisture resistance. In addition, the Scotchlok UY2 connector is available in a dry version, Scotchlok UY2-D connector.

## Scotchlok Butt Connector UAL

The Scotchlok UAL connector is a sealed, moisture-resistant, two- or three-wire connector. Outside ports accept solid copper, aluminum, or a combination of both.

### Scotchlok Butt Connector UP2

The Scotchlok UP2 connector is a dry, flame-retardant, two-wire UL-Listed connector for use on paper, pulp, or PIC cable where moisture resistance is not needed. (UL-recognized component).

### Scotchlok Clearing Cap UCC

Each moisture-resistant Scotchlok UCC clearing cap isolates a full cable pair. The conductors are held rigidly in place with a plastic blade. The Scotchlok UCC accepts two wire combinations.

### Scotchlok Butt Connector UP3

The Scotchlok UP3 connector is a dry, flame-retardant, two- or three-wire connector for paper, pulp, or PIC cable where moisture resistance is not needed. (UL recognized component).

### Scotchlok Self-Stripping Drop-Wire Connector 557TG2

Use the Scotchlok 557TG2 aerial drop-wire connector to electrically connect two solid copper conductors, insulate the connection, and provide moisture protection.

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# Scotchlok™ Tap Connectors

Scotchlok™ tap connectors are real time savers. They allow the user to tap into another wire without interrupting service. A U-shaped element inside each connector displaces insulation material and makes contact with the copper conductor. Scotchlok tap connectors also include factory-installed sealant to protect against corrosion and seal out moisture. They are also available in a dry version for central offices and vaults.

Scotchlok tap connectors are fast to install, easy to use, and available in a wide range of common wire gauges. Tap connectors allow direct tapping into existing solid copper conductors without interrupting service. The precrimp feature helps to hold the wires in place until the connector is crimped and the splice is complete.

## Scotchlok Tap Connector UB2A/UB2A-D

The Scotchlok UB2A/UB2A-D connectors have a precrimp feature that gives the craftsperson a time-saving edge. By positioning the connector on the conductor and precrimping, the conductor is prevented from slipping out of the connector before the crimp is completed. A factory sealant protects against corrosion and seals out moisture. In ready-access closures, these connectors help eliminate cutting cable pairs, opening circuits, and piecing out wires. The Scotchlok UB2A-D connector is a dry version of the Scotchlok UB2A connector.

# Scotchlok Inline Connectors

Scotchlok inline connectors are a safe and simple way to make a secure connection. These full-pair, sealed, moisture-resistant connectors are designed to accommodate a wide variety of wire ranges.

## Scotchlok Inline Connector U1B

The Scotchlok U1B connector is a sealed, moisture-resistant, four-wire (one full-pair) inline connector for larger-gauge solid copper. (AWG 19-16 solid copper conductors).

## Scotchlok Inline Connector U1R

The Scotchlok U1R connector is a sealed, moisture-resistant, four-wire (one full-pair) inline connector for larger-gauge solid copper. (AWG 24-19 solid copper conductors).

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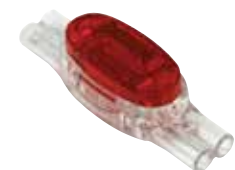
# Scotchlok™ Tools

To complement our line of efficient, reliable Scotchlok™ connectors, Scotchlok crimping tools are built to do the job right, and do it fast. All Scotchlok tools are engineered to fit comfortably in hand while providing mechanical advantages for less operator fatigue. From automatic cartridges to adjustable jaws, there's a tool designed to meet your specific application needs.

## Scotchlok Cartridge Tool E-9C with Case and Gauge

With an automatic cartridge feed, a 7-to-1 mechanical advantage, and ratchet action, the Scotchlok E-9C tool allows the craft person to complete a crimp with one hand, freeing the other hand for wire handling. The tool is designed for cartridges with Scotchlok butt connectors.

## Scotchlok Crimping Tool E-9BM

This heavy-duty tool is capable of crimping all Scotchlok connectors. Its parallel closing action and adjustable jaws provide a 10-to-1 mechanical advantage, allowing it to handle all wire gauges.

## Scotchlok Crimping Tool E-9E

A completely parallel closing action and a 4-to-1 mechanical advantage make the lightweight Scotchlok E-9E crimping tool a versatile addition to any craft person's toolkit. With these features, the Scotchlok E-9E tool will crimp all Scotchlok butt-and-tap connectors in all wire gauges.

## Scotchlok Crimping Tool E-9Y

The Scotchlok E-9Y tool has stepped jaws, a long nose, and a side wire cutter to crimp two- or three-conductor splicing. The Scotchlok E-9Y tool is not recommended for 19-gauge (0.9 mm) and larger conductors.

## Scotchlok Crimping Tool E-9J

The Scotchlok E-9J tool is a lightweight, handheld tool featuring a single-stroke, parallel crimping action with a work-saving 10-to-1 mechanical advantage over applied hand force. For use with Scotchlok butt-and-tap connectors.

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# Scotchlok™ Connectors and Tools Specification Chart

| Connector | Type Connector | Special Features | Maximum Insulation O.D. Metric (mm) | Inches | PIC-unfilled and PIC-filled AWG | Metric (mm) | Pulp or paper AWG | Metric (mm) |
|---|---|---|---|---|---|---|---|---|
| **Butt Splicing** | | | | | | | | |
| UR2 | | Gel-Filled Polypropylene Cat. 5 | 2.08 | 0.082 | 26-19 | 0.4-0.9 | N/A | N/A |
| UR2-D | | Dry Polypropylene | 2.08 | 0.082 | 26-19 | 0.4-0.9 | 26-19 | 0.4-0.9 |
| UR | | Gel-Filled Polycarbonate Cat. 5 | 1.52 | 0.060 | 26-19 | 0.4-0.9 | N/A | N/A |
| UY2 | | Gel-Filled Polypropylene Cat. 5 | 2.08 | 0.082 | 26-19 | 0.4-0.9 | N/A | N/A |
| UY2-D | | Dry Polypropylene | 2.08 | 0.082 | 26-19 | 0.4-0.9 | 26-19 | 0.4-0.9 |
| UY | | Gel-Filled Polycarbonate Cat. 5 | 1.52 | 0.060 | 26-22 | 0.4-0.7 | N/A | N/A |
| *557-TG2 | | Gel-Filled Polypropylene | 3.0 | 0.12 | 22-16 | 0.6-1.3 | N/A | N/A |
| UP2 | | Dry Polycarbonate Flame-Retardant UL Recognized Component | 1.52 | 0.060 | 26-22 | 0.4-0.7 | 26-22 | 0.4-0.7 |
| UP3 | | Dry Polycarbonate Flame-Retardant UL Recognized Component | 1.52 | 0.060 | 26-19 | 0.4-0.9 | 26-19 | 0.4-0.9 |
| UAL | | Gel-Filled for Aluminum Polycarbonate | Outside Ports: 2.08 Middle Port: 1.88 | Outside Ports: 0.082 Middle Port: 0.074 | 20-17 AL 24-19 CU | 0.8-1.2 AL 0.5-0.9 CU | N/A | N/A |

*557-TG2 connectors can only be used with Scotchlok™ Crimp Tool E-9BM or E-9J.

# Scotchlok™ Connectors and Tools Specification Chart

| Connector | Type Connector | Special Features | Maximum Insulation O.D. | | PIC-unfilled and PIC-filled | | Pulp or paper | |
|---|---|---|---|---|---|---|---|---|
| | | | Metric (mm) | Inches | AWG | Metric (mm) | AWG | Metric (mm) |
| **Tap Splicing** | | | | | | | | |
| UB2A | | Gel-Filled Polypropylene Cat. 5 | 2.08 | 0.082 | 26-19 | 0.4-0.9 | N/A | N/A |
| UB2A-D | | Dry Polypropylene | 2.08 | 0.082 | 26-19 | 0.4-0.9 | 26-19 | 0.4-0.9 |
| **Inline Splicing** | | | | | | | | |
| *U1B | | Gel-Filled Full-Pair Polycarbonate | 3.18 | 0.125 | 19-16 | 0.9-1.3 | N/A | N/A |
| *U1R | | Gel-Filled Full-Pair Polycarbonate | 3.18 | 0.125 | 24-19 | 0.5-0.9 | N/A | N/A |
| **Clear/Cap Only** | | | | | | | | |
| UCC | | Gel-Filled Polycarbonate | 1.52 | 0.060 | 26-22 | 0.4-0.7 | N/A | N/A |

To reduce fatigue, use tool within each group with highest mechanical advantage, indicated in ( ).

E-9BM (10:1)

E-9C (7:1)

E-9E (4:1)

E-9Y** (3:1)

E-9J (10:1)

*Inline and drop wire connectors can only be used with Scotchlok™ Crimp Tool E-9BM.
**Not recommended for 19-gauge (0.9 mm) conductor and larger.

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# Scotchlok™ Connectors Ordering Information

| Product Description | Part Number | Min Order Quantity | Package Quantity | Packaging Specifications |
|---|---|---|---|---|
| 26-19 AWG Butt Connector, 2 or 3 conductor (UR2 (BX)) | 80-6113-2759-6 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-19 AWG AWG Butt Connector, 2 or 3 conductor (UR2 (CART)) | 80-6113-2760-4 | 1 pack | 1,000 pcs | 10 boxes of 10 cartridges with 10 connectors each |
| 26-19 AWG AWG Butt Connector, 2 or 3 conductor (UR2-JAR500) | 80-6113-2765-3 | 1 pack | 5,000 pcs | 500 per jar, 10 jars per pack |
| 19-26 AWG AWG Butt Connector (dry), 2 or 3 conductor (UR2-D (CART)) | 80-6105-7824-9 | 1 pack | 1,000 pcs | 10 boxes of 10 cartridges with 10 connectors each |
| 26-19 AWG Butt Connector (dry), 2 or 3 conductor (UR2-D-JAR500) | 80-6113-2540-0 | 1 pack | 5,000 pcs | 500 per jar, 10 jars per pack |
| 26-19 AWG Butt Connector, 2 or 3 conductor (UR (BX)) | 80-6113-2788-5 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-19 AWG Butt Connector, 2 conductor, bulk packaging (UY2 (BULK)) | 80-6113-2782-8 | 1 pack | 5,000 pcs | 1000 per box, 5 boxes per pack |
| 26-19 AWG 2 Wire Butt Connector, 2 conductor (UY2 (BX)) | 80-6113-2679-6 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-19 AWG Butt Connector, 2 conductor (UY2 (CART)) | 80-6113-2783-6 | 1 pack | 1,200 pcs | 10 boxes of 10 cartridges with 12 connectors each |
| 26-19 AWG Butt Connector, 2 conductor (UY2-JAR500) | 80-6113-2786-9 | 1 pack | 5,000 pcs | 500 per jar, 10 jars per pack |
| 19-26 AWG Butt Connector (dry), 2 conductor (UY2-D (CART)) | 80-6105-7827-2 | 1 pack | 1,200 pcs | 10 boxes of 10 cartridges with 12 connectors each |
| 26-19 AWG Butt Connector (dry), 2 conductor (UY2-D-JAR500) | 80-6113-2539-2 | 1 pack | 5,000 pcs | 500 per jar, 10 jars per pack |
| 26-22 AWG Butt Connector, 2 conductor (UY (BX)) | 80-6113-2772-9 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-22 AWG AWG Butt Connector, 2 conductor (UY (CART)) | 80-6113-2781-0 | 1 pack | 1,600 pcs | 10 boxes of 10 cartridges with 16 connectors each |
| Self-Stripping Dropwire Butt Connector (557-TG2) | 80-6113-2207-6 | 1 pack | 5,000 pcs | 500 per bag, 10 bags per pack |
| Connector, 2 conductor, bulk packaging (UP2 (BULK)) | 80-6101-1333-6 | 1 pack | 5,000 pcs | 1000 per box, 5 boxes per pack |
| Connector, 2 or 3 conductor, bulk packaging (UP3 (BULK)) | 80-6101-1332-8 | 1 pack | 5,000 pcs | 1000 per box, 5 boxes per pack |
| 22-26 AWG Butt Connector (dry), 2 conductor (UP2 (CART)) | 80-6100-9672-1 | 1 pack | 1,600 pcs | 10 boxes of 10 cartridges with 16 connectors each |
| 19-26 AWG Butt Connector (dry), 2 or 3 conductor (UP3 (CART)) | 80-6100-9675-4 | 1 pack | 1,000 pcs | 10 boxes of 10 cartridges with 10 connectors each |
| 24-17 AWG Butt Connector, 2 or 3 conductor (UAL (BX)) | 80-6113-2746-3 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-19 AWG Bridge Connector, 2 conductor (UB2A (BX)) | 80-6113-2747-1 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-19 AWG Bridge Connector, 2 conductor (UB2A-JAR500) | 80-6113-2751-3 | 1 pack | 5,000 pcs | 500 per jar, 10 jars per pack |

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# Scotchlok™ Connectors Ordering Information (cont.)

| Product Description | Part Number | Min Order Quantity | Package Quantity | Packaging Specifications |
|---|---|---|---|---|
| 19-26 AWG Bridge Connector, 2 conductor (UB2A-D (BX)) | 80-6107-6089-6 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 16-19 AWG Full-Pair Inline Connector (U1B (BX)) | FQ-1000-5752-7 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 19-24 AWG Full-Pair Inline Connector (U1R (BX)) | FQ-1000-5753-5 | 1 pack | 1,000 pcs | 100 per box, 10 boxes per pack |
| 26-22 AWG Clear and Cap Connector, 2 conductor (UCC (CART)) | 80-6113-2753-9 | 1 pack | 1,600 pcs | 10 boxes of 10 cartridges with 16 connectors each |
| 26-22 AWG Clear and Cap Connector, 2 conductor (UCC-JAR500) | 80-6113-2754-7 | 1 pack | 5,000 pcs | 500 per jar, 10 jars per pack |

# Scotchlok™ Connector Tools Ordering Information

| Product Description | Part Number | Min Order Quantity | Package Quantity |
|---|---|---|---|
| Crimp Tool, compatible with all connectors (E-9BM) | 80-6111-4129-4 | 6 pcs | 6 pcs |
| Cartridge Tool with Case (without window), compatible with butt connectors except 557TG, UDW2, U1R, U1B and bridge connectors (E9C) | 80-6101-3112-2 | 1 pcs | 1 pcs |
| Crimping Tool, compatible with all butt and tap connectors except 557TG, UDW2, U1R, U1B (E-9E) | 80-6100-6452-1 | 10 pcs | 10 pcs |
| Step Jaws Tool, compatible with all connectors except 557TG, UDW2, U1R, U1B (E-9Y*) | 80-6091-0004-7 | 10 pcs | 10 pcs |
| Crimping Tool, compatible with all butt and tap connectors except UDW2, U1R, U1B (E-9J) | 80-6113-1406-5 | 10 pcs | 10 pcs |

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