

3M™ Scotchlok™ Copper Compression Connectors, 10000 and 11000 Series



Data Sheet

January 2014

Description

3M™ Scotchlok™ Copper Compression Connectors, 10000 Series are one-piece, standard-barrel, seamless copper connectors and are designed to cover a wide range of conductor sizes from 6 AWG through 1000 kcmil (MCM). The 11000 Series are one-piece, seamless, long-barrel copper connectors and are designed to cover a range of conductor sizes from 2/0 AWG through 1000 kcmil (MCM). They are designed to connect copper conductors. Each connector is electro-tin plated to resist electrolytic corrosion. They are installed using standard industry tooling. Chamfered ends and an integral center cable stop ensure simplicity and ease of conductor insertion.

**Agency Approvals
and Self
Certifications**

UL Listed, UL Standard 486A-486B, File No. E23438

CSA Certified, File No. 015503

Features

- Simple installation using readily available tools
- Integral center cable stop
- Manufactured using tin-plated copper
- Color coded printing for easy connector identification

Applications

- Standard-Barrel: To connect copper conductors from 6 AWG through 1000 kcmil (MCM)
- Long-Barrel: To connect copper conductors from 2/0 AWG through 1000 kcmil (MCM)
- For low and medium voltage up to 35 kV
- For indoor and outdoor use

Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

The 10000 and 11000 Series connectors, when crimped with approved die sets, can be used on cables with an operating temperature of 221°F (105°C) and an emergency overload rating of 284°F (140°C). The connectors pass the requirements of UL486A (Underwriters Laboratories standard for safety) and are CSA Certified. The current rating of these connectors meets or exceeds the current rating of the conductor size for which it is intended.

3M™ Scotchlok™ Copper Compression Connectors, 10000 and 11000 Series

Standard-Barrel Connector Dimensions and Selection Guide

Note: All listed connectors are UL Listed and CSA certified.

| 3M™ Scotchlok™ Connector | Conductor Size AWG or kcmil (MCM) | Color Code | Length inches (mm) ±.060" | I.D. inches (mm) ±.010" | O.D. inches (mm) ±.010" |
|--------------------------|--------------------------------------|------------|---------------------------------|-------------------------------|-------------------------------|
| 10001 | 6 AWG | Blue | 1.75 (44,5) | .196 (5,00) | .290 (7,4) |
| 10002 | 4 AWG | Gray | 1.75 (44,5) | .247 (6,25) | .340 (8,6) |
| 10003 | 2 AWG | Brown | 1.88 (47,7) | .307 (7,8) | .416 (10,6) |
| 10004 | 1 AWG | Green | 1.88 (47,7) | .358 (9,1) | .462 (11,7) |
| 10005 | 1/0 AWG | Pink | 1.88 (47,7) | .394 (10,0) | .512 (13,0) |
| 10006 | 2/0 AWG | Black | 2.00 (50,8) | .439 (11,2) | .560 (14,2) |
| 10007 | 3/0 AWG | Orange | 2.13 (54,0) | .490 (12,4) | .617 (15,7) |
| 10008 | 4/0 AWG | Purple | 2.13 (54,0) | .548 (13,9) | .687 (17,4) |
| 10009 | 250 kcmil | Yellow | 2.25 (57,2) | .595 (15,1) | .750 (19,1) |
| 10010 | 300 kcmil | White | 2.25 (57,2) | .650 (16,5) | .813 (20,7) |
| 10011 | 350 kcmil | Red | 2.38 (60,4) | .700 (17,8) | .875 (22,2) |
| 10014 | 500 kcmil | Brown | 2.88 (73,1) | .836 (21,2) | 1.059 (26,9) |
| 10019 | 750 kcmil | Black | 3.38 (85,8) | 1.031 (26,2) | 1.299 (33,0) |
| 10024 | 1000 kcmil | White | 3.88 (98,5) | 1.173 (29,8) | 1.50 (38,1) |

Long-Barrel Connector Dimensions and Selection Guide

Note: All listed connectors are UL Listed and CSA certified.

| 3M™ Scotchlok™ Connector | Conductor Size AWG or kcmil (MCM) | Color Code | Length inches (mm) ±.060" | I.D. inches (mm) ±.010" | O.D. inches (mm) ±.010" |
|--------------------------|--------------------------------------|------------|---------------------------------|-------------------------------|-------------------------------|
| 11006 | 2/0 AWG | Black | 3.13 (79,4) | .439 (11,2) | .560 (14,2) |
| 11007 | 3/0 AWG | Orange | 3.13 (79,4) | .490 (12,4) | .617 (15,7) |
| 11008 | 4/0 AWG | Purple | 3.38 (85,8) | .548 (13,9) | .687 (17,4) |
| 11009 | 250 kcmil | Yellow | 3.38 (85,8) | .595 (15,1) | .750 (19,1) |
| 11010 | 300 kcmil | White | 4.13 (104,8) | .650 (16,5) | .813 (20,7) |
| 11011 | 350 kcmil | Red | 4.13 (104,8) | .700 (17,8) | .875 (22,2) |
| 11014 | 500 kcmil | Brown | 4.63 (117,5) | .836 (21,2) | 1.059 (26,9) |
| 11019 | 750 kcmil | Black | 5.88 (149,3) | 1.031 (26,2) | 1.299 (33,0) |
| 11024 | 1000 kcmil | White | 6.13 (155,6) | 1.173 (29,8) | 1.50 (38,1) |

Tool/Installation Information

3M™ Scotchlok™ Copper Compression Connectors, 10000 and 11000 Series shall be crimped with one of the approved die sets according to the engineering information supplied with the connectors. (Also see Crimping Tool-Die Sets tables below)

3M™ Scotchlok™ Copper Compression Connectors, 10000 and 11000 Series

Crimping Tool Recommendations

Standard-Barrel Connector Crimping Tool – Die Sets (Minimum # of Crimps / End)

| 3M™ Scotchlok™ Connector | Conductor Size AWG or kcmil (MCM) | Burdny Corporation | | | | Thomas & Betts Corporation | | | Square D Co. Anderson Div. |
|--------------------------|-----------------------------------|--------------------|-----------|----------|----------------------------------|----------------------------|------------|----------|----------------------------|
| | | MD6 | MY29 | Y34A | Y35, Y39, Y45*, Y46* | TBM5 | TBM 8 | TBM15 | VC6-3, VC6-FT** |
| 10001 | 6 AWG | ----- | 6 AWG (1) | ----- | U5CRT (1) | Blue (1) | Blue (1) | --- --- | (1) |
| 10002 | 4 AWG | W161 (1) | 4 AWG (1) | A4CR (1) | U4CRT (1) | Gray (1) | Gray (1) | ----- | (1) |
| 10003 | 2 AWG | W162 (2) | 2 AWG (1) | A2CR (1) | U2CRT (2) | Brown (1) | Brown (1) | 33 (1) | (2) |
| 10004 | 1 AWG | ----- | 1 AWG (1) | A1CR (1) | U1CRT (2) | Green (1) | Green (1) | 37 (1) | (2) |
| 10005 | 1/0 AWG | W163 (2) | 1/0 (1) | A25R (1) | U25RT (1) | Pink (2) | Pink (2) | 42 (2) | (1) |
| 10006 | 2/0 AWG | W241 (2) | 2/0 (1) | A26R (1) | U26RT (2) | Black (2) | Black (2) | 45 (1) | (1) |
| 10007 | 3/0 AWG | W243 (2) | 3/0 (1) | A27R (1) | U27RT (2) | Orange (2) | Orange (2) | 50 (1) | (1) |
| 10008 | 4/0 AWG | BG (3) | 4/0 (1) | A28R (2) | U28RT (2) | Purple (2) | Purple (2) | 54H (2) | (2) |
| 10009 | 250 kcmil | W166 (3) | 250 (1) | A29R (2) | U29RT (2) | Yellow (2) | Yellow (2) | 62 (2) | (2) |
| 10010 | 300 kcmil | ----- | ----- | A30R (2) | U30RT (2) | ----- | White (2) | 66 (2) | (2) |
| 10011 | 350 kcmil | ----- | ----- | A31R (2) | U31RT (2) | ----- | Red (3) | 71H (3) | ----- |
| 10014 | 500 kcmil | ----- | ----- | A34R (2) | U34RT (2) | ----- | Brown (3) | 87H (3) | ----- |
| 10019 | 750 kcmil | ----- | ----- | ----- | Y39, Y45, Y46: U39RT (3) | ----- | ----- | 106H (3) | ----- |
| 10024 | 1000 kcmil | ----- | ----- | ----- | Y45: S44RT (4) Y46: P44RT (4) | ----- | ----- | 125H (3) | ----- |

* Y45 and Y46 accept all Y35 dies (“U” series). For Y45 use PT6515 adapter. For Y46 use PUADP adapter.

** Anderson VC6-3 and VC6-FT require no die set.

Long-Barrel Connector Crimping Tool – Die Sets (Minimum # of Crimps / End)

| 3M™ Scotchlok™ Connector | Conductor Size AWG or kcmil (MCM) | Burdny Corporation | | | | Thomas & Betts Corporation | | | Square D Co. Anderson Div. |
|--------------------------|-----------------------------------|--------------------|---------|----------|----------------------------------|----------------------------|------------|----------|----------------------------|
| | | MD6 | MY29 | Y34A | Y35, Y39, Y45*, Y46* | TBM5 | TBM 8 | TBM15 | VC6-3, VC6-FT** |
| 11006 | 2/0 AWG | W241 (3) | 2/0 (2) | A26R (2) | U26RT (3) | Black (3) | Black (3) | 45 (2) | (2) |
| 11007 | 3/0 AWG | W243 (3) | 3/0 (2) | A27R (2) | U27RT (3) | Orange (3) | Orange (3) | 50 (2) | (2) |
| 11008 | 4/0 AWG | BG (4) | 4/0 (2) | A28R (3) | U28RT (3) | Purple (3) | Purple (3) | 54H (3) | (3) |
| 11009 | 250 kcmil | W166 (4) | 250 (2) | A29R (3) | U29RT (3) | Yellow (3) | Yellow (3) | 62 (3) | (3) |
| 11010 | 300 kcmil | ----- | ----- | A30R (3) | U30RT (3) | ----- | White (3) | 66 (3) | (3) |
| 11011 | 350 kcmil | ----- | ----- | A31R (3) | U31RT (3) | ----- | Red (4) | 71H (4) | ----- |
| 11014 | 500 kcmil | ----- | ----- | A34R (4) | U34RT (3) | ----- | Brown (4) | 87H (4) | ----- |
| 11019 | 750 kcmil | ----- | ----- | ----- | Y39, Y45, Y46: U39RT (5) | ----- | ----- | 106H (4) | ----- |
| 11024 | 1000 kcmil | ----- | ----- | ----- | Y45: S44RT (6) Y46: P44RT (6) | ----- | ----- | 125H (4) | ----- |

* Y45 and Y46 accept all Y35 dies (“U” series). For Y45 use PT6515 adapter. For Y46 use PUADP adapter.

** Anderson VC6-3 and VC6-FT require no die set.

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| Storage | Components of the connectors are not impaired by freezing or overheating due to ambient temperatures found in typical storage or shipping. Normal stock rotation procedures are recommended. |
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| Availability | Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573. |
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