

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)	Burndy 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)	Burndy 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.
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.

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