



Color-Keyed **Compression**

Connection by Compression	E2-E5
Color-Keyed® Connectors	E6-E9
Connectors for Copper Conductor	E10-E39
Cast Copper Connectors for Copper Conductor	E40-E42
Flag Connectors for Copper Conductor	E43
Flag Connectors for Aluminum Conductor	E44
C-Tap Connectors for Copper Conductor	E45-E46
Copper H-Tap Connectors for Copper Conductor	E47-E48
Aluminum H-Tap Connectors for Aluminum/Copper Code Conductor (up to 600V)	E49
Insulating Covers for H-Taps and C-Taps	E50-E51
Wire Joints for Copper Conductor	E52
Cast Copper Bus Taps for Copper Conductor	E53
Quick Bus Taps for Copper Conductor	E54
Motor Pigtail Connectors	E55-E59
High-Amperage Quick Power Disconnects	E60
Copper Traction Motor Disconnect Lugs for Diesel-Electric Locomotives	E61
Connector Kits	E62
Connectors for Aluminum/Copper Code Conductor	E63-E68
Transformer Lug Kits for Aluminum/ Code Conductor	E69
Pin Connectors for Aluminum/ Copper Code Conductor	E70
Heavy Duty Battery Connectors	E71-E75
Heavy Duty Battery Cables	E76-E77
Tooling for Heavy Duty Battery Connectors and Conductor	E78
Connector Tools	E79-E83, E94-E100
Smart® Connector Tools	E84-E85
Installation Tools	E86, E101-E102
Batpac® Battery Powered Compression and Cutting Tools	E87-E93
Sealants and Lubricants	E103
Installing Dies	E104-E106
Connector, Tool and Die Chart	E107-E108
for Copper H-Taps	E109
for Standard C-Taps	E110
for Large C-Taps	E111
Tool Services	E112

E

Color-Keyed® Connection by Compression

Color-Keyed®

E



Wire Stripper shown is Part No. BCS8-40.

The Thomas & Betts Method Is Better.

The Thomas & Betts method of installing compression connectors on power cables is designed to provide a high degree of reliability in electrical wiring. This method allows electrical

workers to make installations with little effort and at a considerable savings in time. The benefit, of course, is a high quality connection at a low installed cost.

Just Four Easy Steps to a Perfect Connection

- 1 Strip the insulation carefully to avoid nicking or cutting conductors (wire brush if required).**

Strands
Cut



Nicked
Strands



Good
Strip



Strip the insulation to the proper length so that conductors can be fully inserted into the connector barrel.

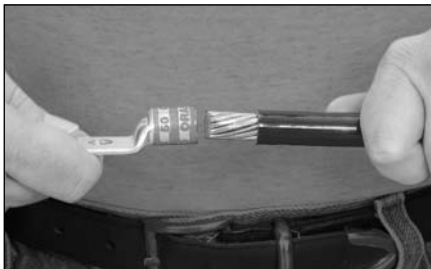
Strip Length Too Long



Strip Length Too Short

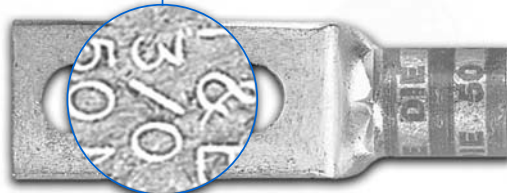


Strip Length Just Right



- 2 Determine the proper Color-Keyed® Connector for the cable size being used. Connectors are marked to show cable size.**

Cable Size



- Connectors marked with just cable size or CU should be used on copper conductors only.
- Connectors marked "AL9"* with the cable size should be used on aluminum conductors only.

- Connectors marked "AL9CU" with the cable size may be used on the aluminum or copper conductors.

* Aluminum lugs with a "9" indicate 90°C rating.

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Color-Keyed® Connection by Compression

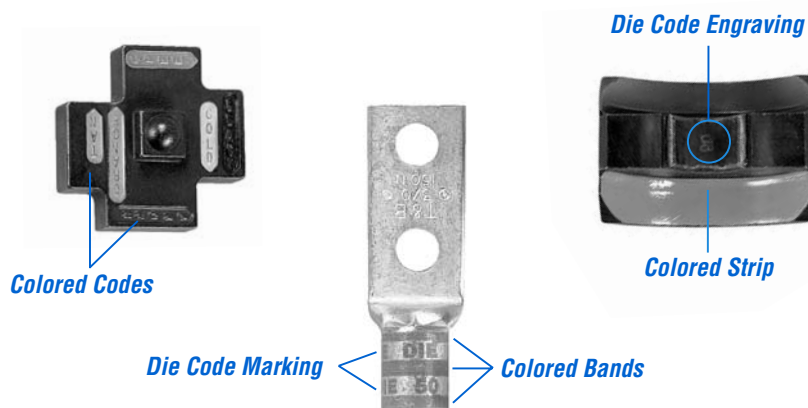


Battpac® Battery Powered Compression TBM62BSCR tool shown.

3 Select the proper installing die and appropriate tool.

Color-Keyed® Connectors have colored bands or colored dots that correspond to color markings on the dies.

Connectors and dies also have a die code number marked or stamped on them. Dies have a code number engraved in the crimp surface.



E

Color-Keyed®



4 Locate tool with correct die in proper position on connector and activate tool.

When making multiple crimps, make the first crimp nearest the tongue and work towards the barrel end.

When properly crimped, the die code number will be embossed on the connector for easy inspection to determine if correct die and connector combination were used.

Thomas & Betts uses "full-width" and "half-width" dies dependent on connector size and tool used. "Half-width" dies are marked with the letter "H" after the die code number.

Refer to the instruction sheet supplied with the connectors for information regarding strip length, die selection and number of compressions required.

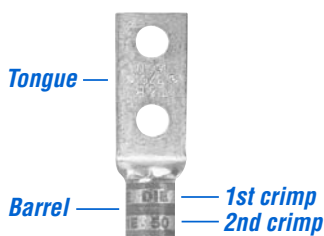
Copper
Die located
BETWEEN bands

Aluminum
Die located
ON Bands



Color-Keyed® Connectors are banded by colored stripes or engraving to indicate location of die on connector for compression.

Die location for compression



Colored bands



Die code embossed

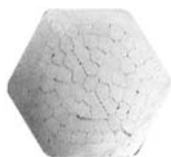
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Color-Keyed® Connection by Compression

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Before compression, a typical cross section of cable and connector consists of about 75% metal and 25% air.



After air compression by the T&B Method, the cross section looks like this, 100% metal with virtually no air spaces.

Copper

Die located
BETWEEN bands



Aluminum

Die located
ON Bands



Color-Keyed® Connectors are banded by colored stripes or engraving to indicate location of die on connector for compression.

Precision Dies From a Solid Homogenous Mass...

The T&B method utilizing compression tools with matching dies forms the connector and conductor into a solid, homogenous mass to provide an optimum electrical bond between connector and conductor.

Thomas & Betts method dies are designed to produce a circumferential, hex- or diamond-shaped compression rather than a simple indent. Precision dies are an integral part of the Thomas & Betts method. The precision hardened steel dies exert tremendous, controlled pressure on the connector and conductor. The dies compress the connector around the cable, converting

the round strands to hexagonal or diamond shapes and forming the strands and connector into a solid mass. Each die is designed so that all conductors receive the same amount of compression force.

The circumferential compression creates a large area of high pressure contact between cable and connector which, in turn, assures high conductivity, low resistance, and high pullout values which exceed UL requirements. These features result in a permanent, low installed cost connection. You can install it, and forget it.

Thomas & Betts' System Tells You Where to Place the Installing Die.

Color-Keyed® connectors not only identify the correct installing die to be used for positive compressions, but also indicate the proper placement of the die on the connector. This is done by the bands of color on the connector

which match the color on the dies. Compression is made between or on these color bands. The color name is also spelled on the connector as an added means of identification.

Thomas & Betts Dies Offer Inspection Capability.

Dies that are used in Thomas & Betts hand and hydraulic tools contain the "die code" numbers which are engraved on the compression surface of the die. Under compression, this number becomes embossed on the completed connection for inspection purposes.

The inspector compares the die code number embossed on the connector with the die table to ensure that the proper connector was compressed with the correct die for that particular size conductor.

Colored bands



Die code embossed

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Color-Keyed® Connection by Compression



Quality Tooling With the Shure-Stake® Mechanism

T&B manual tools with the exclusive, Shure-Stake® mechanism take the guesswork out of making compression connections. The Shure-Stake® mechanism provides a full cycle compression stroke every time. Once the stroke has started, the tool will not release the connector until the proper amount of force has been applied. This is your assurance of a fully compressed connection. T&B compression tools develop uniform, controlled pressure to each connector within their size range. Thomas & Betts offers electric and battery-powered hydraulic pumps with a Shure-Stake® feature that guarantees a full cycle compression.

High Grade Materials Incorporated In Thomas & Betts Method

Low installed cost connections of superior quality can be achieved only through the use of high grade components. That is an important part of the T&B method – quality products you can depend on.

Copper Color-Keyed® connectors are made of high conductivity wrought copper, and are electro-tin plated to prevent corrosion and to improve conductivity. Thomas & Betts Color-Keyed® connectors offer the thickest tin-plating in the industry. Other copper connectors for heavy duty use and grid grounding applications are made of high conductivity cast copper, bright finished.

High conductivity cast aluminum connectors are available for heavy duty application.

Thomas & Betts Method Components Meet Industry Standards.

Depending on the application, all Thomas & Betts copper connectors meet U.L. Std. 486A for code stranded and 24 gauge flex, CSA Std. C22.2, No. 65.600 V. requirements for power and U.L. Std. 467, CSA Std. 22.2 No. 0.4 requirements for direct buried grounding.

T&B method connectors are available in a range of sizes and styles to accommodate No. 8AWG through 1000 kcmil and larger copper or 2000 kcmil and larger aluminum cable. They may be compressed on cable with either manual or hydraulic tools. They are offered with standard length or long barrels, with one bolt or two bolt holes, or in two-way styles, for splicing applications. Two-way connectors are compact, providing high pullout values with low resistance.

Color-Keyed® two-hole lugs are ideal for bus bar applications that require two bolts to prevent lug rotation.

The T&B method is the most efficient, highest quality connection that has been engineered and delivers the best electrical performance and highest reliability.

T&B Compression Connectors eliminate risk of problems relating to loose connections when installed properly.



Pumpac® II

The newest battery-powered hydraulic pump, rated for 10,000 PSI. Portable power for all T&B hydraulic heads, using just two 14.4 rechargeable batteries.



TBM62BSCR

Single-handed battery-powered compression tool, features rotating head and comfortable balance. For connectors up to 500MCM CU, 350MCM AL.



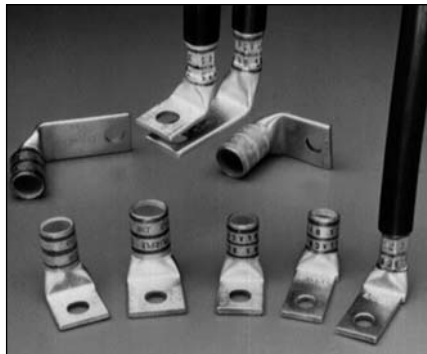
TBM6S

Hand-operated crimping tool, features Shure-Stake® mechanism to insure a completed crimp. For connectors up to 500 MCM CU, 350 MCM AL.

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Color-Keyed® Special Lugs for Special Problems – Angled, Shaped and Trimmed the Way You Often Need Them

Thomas & Betts can solve your difficult wire bending and terminating problems in confined power distribution panels, switchgear and motor control enclosures.

We have the design and production capability to deliver exactly the type lug you need, shaped the way you need.

- Straight, 45° and 90° angle
- Stacking or non-stacking
- Narrow tongue or standard
- Tin, silver, lead, nickel

Thomas & Betts offers an extensive line of copper Color-Keyed® lugs for #8 AWG through 1000 kcmil flex and code cables. The lug tongues are modified in several different configurations to meet your exact needs: 45° and 90° bend angles, narrow tongues to fit into circuit breakers, offset tongues to stack two cables, and special stud hole drilling. These special configurations let you:

- (1) run cable directly to the bus bar with no bending,
- (2) terminate into very narrow spaces, and
- (3) utilize minimal bus bar space.

The specially designed lugs help you “clean up” your cabling in crowded enclosures.

The photographs show some examples of how and where the lugs can be used.



Customized Color-Keyed® Connectors for Copper Cables

- Standard and special tongue angles, stacking and non-stacking, bolt holes sizes and centers, protective platings.
- Specially modified one and two hole copper Color-Keyed® compression lugs, Series 54100, 54200, 54850BE and 54930BE for flex and code copper stranded cables. Material high conductivity wrought copper.
- Minimum order quantity: Standard package quantity by cable size. Consult factory for price and delivery. All customized lugs are made to order. A.R.O. Non-cancellable.

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Color-Keyed® Connectors

Order From

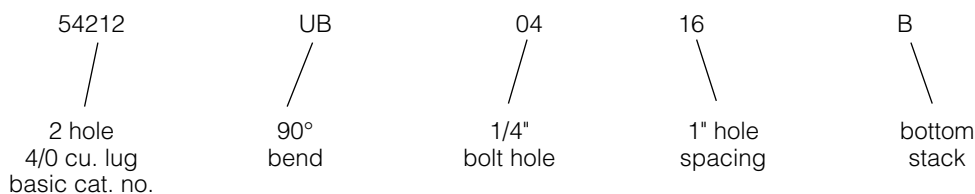
Catalog No. _____ Qty. _____
(For 54100, 54200, 54800 & 54900 Series Copper Lugs Only)

Design Controls and Requirements

All "MADE-UP" catalog numbers start with a standard or basic catalog number and are followed by the customer required extra features: tongue shape, bolt hole size, distance between bolt holes, stacking, plating and inspection hole (peep hole). A code letter or a number has been assigned to each extra feature. See CODE TABLE.

NOTES: 1) Lack of any of the extra features on the "MADE-UP" catalog number means that the standard Cat. No. features are prevalent.
2) If either bolt hole size or distance between bolt holes needs to be changed from standard Cat. No., both code numbers will appear on the "MADE-UP" Cat. No. (See example below)

Cat. No. 54212UB0416BSP



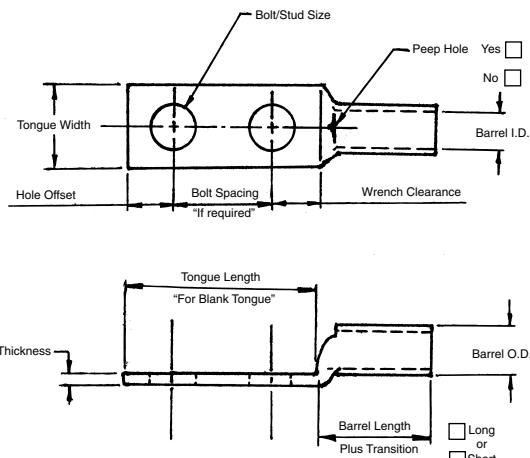
CODE TABLE

Tongue Shape		Bolt Holes		Bolt Hole Centers		Stacking		Finish (Plating)		Inspection Hole (Long Barrel)		Inspection Hole (Short Barrel)	
Type	Code	Size .020	Code	Distance .015	Code	Type	Code	Type 1	Code	I.D.	Code	I.D.	Code
45°	UF	#8 .173	02	1/2"	08	Top	T**	Silver Plate	SP	Peep Hole	PH	Blind End	BE
90°	UB	#10 .204	03	5/8"	10	Bottom	B	Lead Plate	LP				
Blank	BT	1/4" .281	04	3/4"	12			Nickel Plate	NP				
(No Bolt Hole)		5/16" .344	05	7/8"	14			Plain Finish	PF				
		3/8" .406	06	1"	16			No Marking	NM				
		1/2" .531	08	1 1/8"	18			Not QTP if					
		5/8" .656	10	1 1/4"	20			suffix other					
		3/4" .812	12	1 3/8"	22			than - PF or					
		7/8" .937	14	1 1/2"	24			standard					
		1" 1.062	16	1 5/8"	26			tin plate					
				1 3/4"	28								
				*1 7/8"	30								
				*2"	32								

* These bolt centers not available for bolt holes larger than 13/16".

** Not required for 45° & 90° Top Stacking.

Cable	Code <input type="checkbox"/>
Weld	Code <input type="checkbox"/>
<input type="checkbox"/> #8	<input type="checkbox"/> #6
<input type="checkbox"/> #2	<input type="checkbox"/> #1
<input type="checkbox"/> 2/0	<input type="checkbox"/> 3/0
<input type="checkbox"/> 250 kcmil & up (Code Only)	<input type="checkbox"/> 4/0



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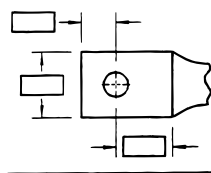
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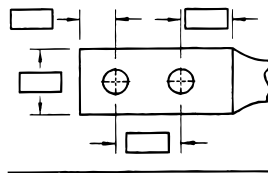
Tongue Specifications – See Chart “A” For Dimensions

Stud Sizes

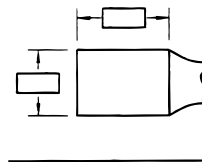
<input type="checkbox"/> #8	<input type="checkbox"/> 1/2
<input type="checkbox"/> #10	<input type="checkbox"/> 5/8
<input type="checkbox"/> 1/4	<input type="checkbox"/> 3/4
<input type="checkbox"/> 5/16	<input type="checkbox"/> 7/8
<input type="checkbox"/> 3/8	<input type="checkbox"/> 1



☐ Single Hole



☐ Double Hole



☐ Blank

Chart A

Nominal Bolt Hole Size .015	Hole Offset .030	Wrench Clearance Min.	Tongue Width Cable Size										
			#8 Code #8 Weld	#6 Code #6 Weld	#4 Code #4 Weld	#2 Code #2 Weld	#1 Code #1 Weld	1/0 Code 1/0 Weld	2/0 Code 2/0 Weld	3/0 Code 3/0 Weld	4/0 Code 4/0 Weld	250 Code	
#8 .173	.200	.240	.406	.437	.562	.593	.672	.750	.825	.937	1.030	1.125	
#10 .204	.218	.250	.406	.437	.562	.593	.672	.750	.825	.937	1.030	1.125	
1/4 .281	.250	.312	.469	.500	.562	.593	.672	.750	.825	.937	1.030	1.125	
5/16 .344	.375	.406	.562	.562	.562	.675	.672	.750	.825	.937	1.030	1.125	
3/8 .406	.375	.440	.578	.578	.594	.675	.672	.750	.825	.937	1.030	1.125	
1/2 .531	.500	.562	—	—	—	.750	.750	.750	.825	.937	1.030	1.125	
5/8 .656	.812	.875	—	—	—	—	—	—	—	.937	1.030	1.125	
3/4 .812	.750	.770	—	—	—	—	—	—	—	—	—	—	
*7/8 .937	.875	.890	—	—	—	—	—	—	—	—	—	—	
*1 1.062	.937	1.000	—	—	—	—	—	—	—	—	—	—	

* These bolt holes available in one hole lug only.

Chart B

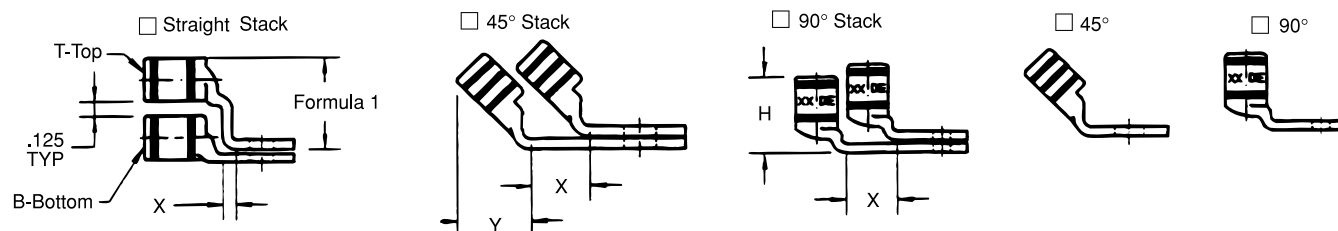
Cable Size	Tongue Thickness	Straight Lug Barrel Length Plus Transition		Barrel		Dim “X” Stacked Lugs			Dim “Y”		Dim “H”	
		Short	Long	O.D.	I.D.	Straight	45°	90°	Short	Long	Short	Long
#8	.080	.635	.935	.260	.180	.158	.478	.394	.595	.808	.779	1.079
#6	.081	.675	.975	.296	.215	.134	.544	.432	.587	.799	.767	1.067
#4	.099	.685	.985	.365	.266	.175	.622	.502	.637	.849	.838	1.138
#2	.108	.815	1.115	.410	.302	.216	.649	.535	.711	.923	.958	1.258
#1	.106	.825	1.275	.467	.361	.212	.731	.592	.710	1.028	.956	1.406
1/0	.125	.975	1.325	.571	.396	.250	.789	.646	.794	1.042	1.075	1.425
2/0	.125	.965	1.315	.571	.446	.250	.859	.696	.829	1.077	1.125	1.475
3/0	.125	1.085	1.435	.632	.507	.250	.946	.757	.900	1.148	1.225	1.575
4/0	.137	1.255	1.705	.701	.564	.274	1.031	.826	1.015	1.333	1.387	1.837
250	.137	1.375	1.925	.766	.629	.274	1.123	.891	1.085	1.474	1.487	2.037
300	.153	1.900	2.675	.850	.660	.459	1.226	.975	1.180	1.726	1.924	2.679
350	.177	2.090	2.896	.926	.720	.531	1.333	1.103	1.267	1.830	2.096	2.896
400	.173	2.460	2.980	.960	.757	.519	1.370	1.085	1.551	1.913	2.484	2.984
500	.218	2.670	3.610	1.100	.852	.654	1.514	1.225	1.629	2.266	2.669	3.619
600	.244	2.900	3.490	1.200	.926	.732	1.630	1.325	1.762	2.147	2.897	3.497
700	.228	2.784	—	1.255	.997	.684	1.662	1.375	1.780	—	3.011	—
750	.270	3.050	3.925	1.330	1.030	.810	1.745	1.455	1.827	2.434	3.050	3.925
800	.266	3.213	—	1.375	1.079	.800	1.728	1.625	1.952	2.787	3.213	4.554
900	.313	3.450	4.550	1.500	1.145	.940	1.900	1.650	2.065	—	1.387	—
1000	.297	3.356	4.500	1.550	1.203	.890	2.070	1.675	2.031	2.787	1.487	4.506

Note: Stacking lugs are available for one bolt only.
Consult Factory: Straight: 700 kcmil & up
45°: 400 kcmil & up
90°: 500 kcmil & up

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Color-Keyed® Connectors



Formula 1 = (.125 + 2 (OD) + .037 – Tongue Thickness)

Chart C

Bolt Hole Size	Tongue Width .030 Code Cable Size										
	300 kcmil 4/0 Weld	350 kcmil	400 kcmil	500 kcmil 400 Weld	600 kcmil 500 Weld	1325/24	700 kcmil	750 kcmil	800 kcmil	900 kcmil	1000 kcmil
#8	—	—	—	—	—	—	—	—	—	—	—
#10	—	—	—	—	—	—	—	—	—	—	—
¼	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
⅝	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
¾	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
½	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
⅝	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
¾	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
*7/8	—	—	—	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
*1	—	—	—	—	1.745	1.805	1.840	1.935	2.010	2.180	2.265

E

Color-Keyed®

Color-Keyed®

Connectors for Copper Conductor

One-Hole Lugs - Standard Barrel

600V to 35KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



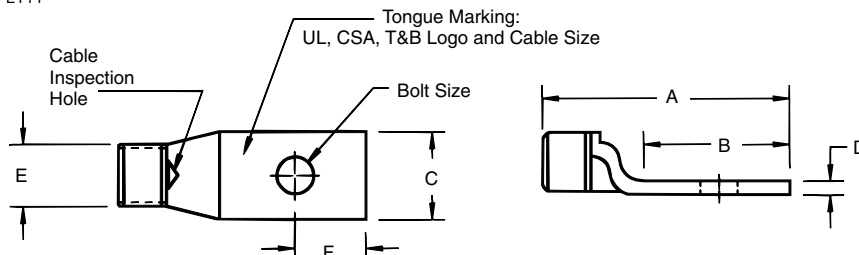
E

Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		A	B	C	D	E	F		
256-30695-1351			#8	1.36	.68	.36	.05	.20	1/4	N/A	ERG2002
256-30695-1352	#14-10 AWG		1/4	1.36	.68	.41	.05	.20	1/4	N/A	ERG2002
256-30695-263			1/4	1.69	.81	.50	.07	.20	1/4	N/A	ERG2002
54104			#10	1.16	.50	.39	.08	.25	7/32	21	RED
54130		23 Navy	1/4	1.20	.61	.45	.07	.25	1/4	21	RED
54131	#8 AWG	#8 Weld	5/16	1.33	.64	.56	.05	.25	9/32	21	RED
54132		37/24 = 14.9 kcmil	3/8	1.33	.64	.56	.05	.25	9/32	21	RED
256-30695-424			1/2	1.75	1.31	1.00	.13	.25	1/2	21	RED
256-30695-1361			#12	1.23	.53	.44	.07	.31	7/32	24	BLUE
54134		#30 Navy	#10	1.23	.53	.44	.07	.31	7/32	24	BLUE
54105		#6 Weld	1/4	1.23	.53	.44	.07	.31	7/32	24	BLUE
54135	#6 AWG	61/24 = 24.6 kcmil	5/16	1.41	.67	.60	.07	.31	9/16	24	BLUE
54136		133/.014	3/8	1.41	.67	.60	.07	.31	9/16	24	BLUE
256-30695-282			3/8	1.41	.75	.56	.06	.31	9/16	24	BLUE
256-30695-422			1/2	1.75	1.31	1.00	.13	.31	1/2	24	BLUE
256-30695-1362			#12	1.38	.60	.55	.09	.37	1/4	29	GREY
54138		40-50 Navy	#10	1.38	.60	.55	.09	.37	1/4	29	GREY
54106		91/24 = 36.7 kcmil	1/4	1.38	.60	.55	.09	.37	1/4	29	GREY
54139	#4 AWG	133/.0177	5/16	1.42	.66	.61	.07	.37	5/16	29	GREY
54140		49/.029	3/8	1.42	.66	.61	.07	.37	5/16	29	GREY
256-30695-233			3/8	1.56	.75	.59	.06	.37	5/16	29	GREY
256-30695-264			1/2	2.20	1.40	1.00	.06	.37	1/2	29	GREY
54107		#60 Navy	1/4	1.50	.65	.59	.11	.41	1/4	33	BROWN
54142-TB	#2 AWG	125/24 = 50.5 kcmil	5/16	1.73	.88	.59	.11	.41	3/8	33	BROWN
54143-TB		#4 Weld	3/8	1.65	.80	.59	.11	.41	3/8	33	BROWN
54145-TB			1/2	1.92	1.08	.75	.08	.41	1/2	33	BROWN
54108		75 Navy, #2 Weld	1/4	1.50	.65	.68	.11	.47	1/4	37	GREEN
54147	#1 AWG	150/24 = 60.5 kcmil	5/16	1.73	.93	.68	.11	.47	3/8	37	GREEN
54148		175/24 = 70.6 kcmil	3/8	1.78	.98	.68	.11	.47	3/8	37	GREEN
54150		133/.0223	1/2	2.10	1.25	.76	.11	.47	1/2	37	GREEN
54152-TB		#100 Navy	1/4	1.60	.65	.75	.13	.52	1/4	42	PINK
54153-TB		#1 Weld	5/16	1.83	.88	.75	.13	.52	3/8	42	PINK
54109	1/0 AWG	225/24 = 90.8 kcmil	3/8	1.88	.93	.75	.13	.52	3/8	42	PINK
54155-TB		133/.0254	1/2	2.20	1.25	.75	.13	.52	1/2	42	PINK
256-30695-1383			5/8	2.54	1.50	.88	.13	.52	5/8	42	PINK
54157		125 Navy	1/4	1.65	.65	.83	.13	.57	1/4	45	BLACK
54158		1/0 Weld	5/16	1.88	.88	.83	.13	.57	3/8	45	BLACK
54110	2/0 AWG	275/24 = 111 kcmil	3/8	1.93	.93	.83	.13	.57	3/8	45	BLACK
54160		427/.0155	1/2	2.25	1.25	.83	.13	.57	1/2	45	BLACK
256-30695-131		133/.0282	5/8	2.56	1.50	.83	.13	.57	5/8	45	BLACK

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

One-Hole Lugs - Standard Barrel 600V to 35KV (continued)

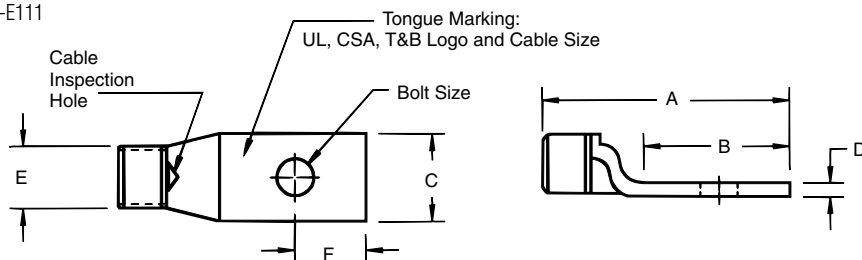
Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		A	B	C	D	E	F		
54162-TB	3/0 AWG	150 Navy, 2/0 Weld	1/4	1.75	.65	.92	.13	.63	1/4	50	ORANGE
54163-TB		325/24 = 131 kcmil	5/16	1.98	.88	.92	.13	.63	3/8	50	ORANGE
54111		133/.0316, 259/.0227	3/8	2.03	.93	.92	.13	.63	3/8	50	ORANGE
54165-TB		427/.0177	1/2	2.35	1.25	.92	.13	.63	1/2	50	ORANGE
54167	4/0 AWG	200 Navy	1/4	1.90	.65	1.03	.14	.70	1/4	54	PURPLE
54168		3/0 Weld	5/16	2.13	.87	1.03	.14	.70	3/8	54	PURPLE
54112		450/24 = 182 kcmil	3/8	2.18	.93	1.03	.14	.70	3/8	54	PURPLE
54170		703/.0154	1/2	2.50	1.25	1.03	.14	.70	1/2	54	PURPLE
256-30695-1174			3/4	2.86	1.56	1.03	.14	.70	3/4	54	PURPLE
58161		4/0 Weld	1/4	2.23	.78	1.25	.15	.79	3/8	62	YELLOW
58162		550/24 = 222 kcmil	5/16	2.33	.88	1.25	.15	.79	3/8	62	YELLOW
58163		133/.0399	3/8	2.38	.93	1.25	.15	.79	3/8	62	YELLOW
58165		259/.0286	1/2	2.76	1.25	1.25	.15	.79	1/2	62	YELLOW
58166		637/.0183	5/8	3.03	1.58	1.25	.15	.79	5/8	62	YELLOW
54172-TB	250 kcmil	250 Navy	1/4	2.00	.65	1.13	.14	.77	1/2	62	YELLOW
54173			5/16	2.23	.88	1.13	.14	.77	3/8	62	YELLOW
54174			3/8	2.28	.93	1.13	.14	.77	3/8	62	YELLOW
54113			1/2	2.60	1.25	1.13	.14	.77	1/2	62	YELLOW
58168		250 Weld, 650/24 = 262 kcmil, 259/.0311, 703/.0189	1/2	2.70	1.25	1.25	.15	.85	1/2	66	WHITE
54178	300 kcmil	300 Navy	5/16	2.33	.88	1.25	.15	.85	3/8	66	WHITE
54179			3/8	2.43	.93	1.25	.15	.85	3/8	66	WHITE
54114			1/2	2.70	1.25	1.25	.15	.85	1/2	66	WHITE
54181			5/8	3.03	1.58	1.25	.15	.85	5/8	66	WHITE
58171		300 Weld, 259/.034, 427/.0265, 889/.0183 775/24 = 313 kcmil	1/2	2.85	1.25	1.36	.18	.93	1/2	71	RED
256-30695-112	350 kcmil	350 Navy	3/8	2.90	1.25	1.36	.18	.93	1/2	71	RED
54115			1/2	2.85	1.25	1.36	.18	.93	1/2	71	RED
54183			5/8	3.21	1.58	1.36	.18	.93	5/8	71	RED
58174		350 Weld, 259/.0368, 427/.0285, 703/.0224, 889/.0201	1/2	3.35	1.25	1.61	.22	1.09	1/2	76	BLUE
54116	400 kcmil	400 Navy	1/2	3.20	1.25	1.41	.17	.96	1/2	76	BLUE
54185			5/8	3.53	1.58	1.41	.17	.96	5/8	76	BLUE

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

One-Hole Lugs - Standard Barrel 600V to 35KV (continued)

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



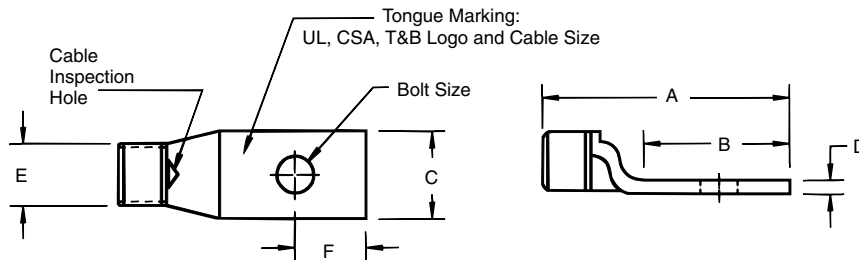
E

Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		A	B	C	D	E	F		
256-30695-1403 58177		400 Weld	$\frac{3}{8}$	3.31	1.31	1.61	.22	1.04	$\frac{5}{8}$	80	N/A
		925/24 = 373 kcmil	$\frac{1}{2}$	3.31	1.25	1.61	.22	1.04	$\frac{1}{2}$	80	N/A
		259/.0393 or 427/.0306									
256-30695-339	500 kcmil	500 Navy	$\frac{3}{8}$	3.10	1.00	1.61	.22	1.10	$\frac{3}{8}$	87	BROWN
54118			$\frac{1}{2}$	3.30	1.25	1.61	.22	1.10	$\frac{1}{2}$	87	BROWN
54187			$\frac{5}{8}$	3.63	1.58	1.61	.22	1.10	$\frac{5}{8}$	87	BROWN
58180		1100/24 = 444 kcmil, 500 Weld, 259/.0417, 427/.0325, 703/.0253	$\frac{5}{8}$	3.79	1.58	1.75	.24	1.20	$\frac{5}{8}$	94	GREEN
256-30695-1054	600 kcmil		$\frac{7}{8}$	3.96	1.81	1.75	.24	1.20	$\frac{13}{16}$	94	GREEN
256-30695-1370			$\frac{1}{2}$	3.65	1.44	1.75	.24	1.20	$\frac{13}{16}$	94	GREEN
54120			$\frac{5}{8}$	3.79	1.58	1.75	.24	1.20	$\frac{5}{8}$	94	GREEN
54122-TB	700 kcmil		$\frac{5}{8}$	3.68	1.58	1.84	.23	1.26	$\frac{5}{8}$	99	PINK
256-30695-1404		1325/24 = 535 kcmil	$\frac{3}{8}$	3.29	1.29	1.81	.28	1.25	$2\frac{1}{32}$	99	PINK
256-30695-1405			$\frac{1}{2}$	3.29	1.29	1.81	.28	1.25	$2\frac{1}{32}$	99	PINK
256-30695-840			$\frac{1}{2}$	4.00	1.69	1.81	.28	1.25	$\frac{13}{16}$	99	PINK
58182			$\frac{5}{8}$	3.83	1.58	1.81	.28	1.25	$\frac{5}{8}$	99	PINK
256-30695-193	750 kcmil		$\frac{1}{2}$	4.00	1.69	1.94	.27	1.33	$\frac{13}{16}$	106	BLACK
54123-TB			$\frac{5}{8}$	3.87	1.58	1.94	.27	1.33	$\frac{5}{8}$	106	BLACK
256-30695-937			$\frac{7}{8}$	4.10	1.88	1.94	.27	1.33	$\frac{7}{8}$	106	BLACK
58184		1600/24 = 646 kcmil	$\frac{5}{8}$	3.80	1.58	1.94	.27	1.33	$\frac{5}{8}$	106	BLACK
54124-TB	800 kcmil	800 Navy	$\frac{5}{8}$	4.04	1.58	2.01	.27	1.38	$\frac{5}{8}$	107	ORANGE
256-30695-843	900 kcmil	1925/24 = 777 kcmil	$\frac{1}{2}$	4.31	1.81	2.17	.31	1.50	$\frac{7}{8}$	115	YELLOW
54126			$\frac{5}{8}$	4.15	1.58	2.17	.31	1.50	$\frac{5}{8}$	115	YELLOW
54128	1000 kcmil	1000 Navy	$\frac{5}{8}$	4.09	1.58	2.27	.30	1.55	$\frac{5}{8}$	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Color-Keyed®

Connectors for Copper Conductor

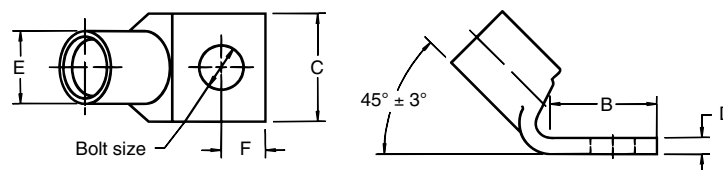
One-Hole Lugs - 45° Standard Barrel 600V to 35KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



Cat. No.	Wire Size		Bolt Size	Dimensions (in.)					Die Code	Die Color
	Code	Flex		B	C	D	E	F		
54104UF	#8 AWG	23 Navy	#10	.50	.39	.08	.25	7/32	21	RED
54130UF		#8 Weld	1/4	.61	.45	.07	.25	1/4	21	RED
54131UF		37/24 = 14.9 kcmil	5/16	.64	.56	.05	.25	9/32	21	RED
54132UF			3/8	.64	.56	.05	.25	9/32	21	RED
54134UF	#6 AWG	30 Navy	#10	.53	.44	.07	.31	7/32	24	BLUE
54105UF		#6 Weld	1/4	.53	.44	.07	.31	7/32	24	BLUE
54135UF		61/24 = 24.6 kcmil	5/16	.67	.60	.07	.31	5/16	24	BLUE
54136UF			3/8	.67	.60	.07	.31	5/16	24	BLUE
54138UF	#4 AWG	40-50 Navy	#10	.60	.55	.09	.37	1/4	29	GREY
54106UF		91/24 = 36.7 kcmil	1/4	.60	.55	.09	.37	1/4	29	GREY
54139UF		133/.0177	5/16	.66	.61	.07	.37	5/16	29	GREY
54140UF			3/8	.66	.61	.07	.37	5/16	29	GREY
256-30695-264UF		49/.029	1/2	1.40	1.00	.06	.37	1/2	29	GREY
54107UF	#2 AWG	60 Navy	1/4	.65	.59	.11	.41	1/4	33	BROWN
54142UF		125/24 = 50.4 kcmil	5/16	.88	.59	.11	.41	3/8	33	BROWN
54143UF			3/8	.80	.59	.11	.41	3/8	33	BROWN
54145UF		#4 Weld	1/2	1.08	.75	.08	.41	1/2	33	BROWN
54108UF	#1 AWG	75 Navy, #2 Weld	1/4	.65	.68	.11	.47	1/4	37	GREEN
54147UF		150/24 = 60.5 kcmil	5/16	.93	.68	.11	.47	3/8	37	GREEN
54148UF		175/24 = 70.6 kcmil	3/8	.98	.68	.11	.47	3/8	37	GREEN
54150UF			1/2	1.25	.76	.11	.47	1/2	37	GREEN
54152UF	1/0 AWG	100 Navy	1/4	.65	.75	.13	.52	1/4	42	PINK
54153UF		#1 Weld	5/16	.88	.75	.13	.52	3/8	42	PINK
54109UF		225/24 = 90.8 kcmil	3/8	.93	.75	.13	.52	3/8	42	PINK
54155UF			1/2	1.25	.75	.13	.52	1/2	42	PINK
54157UF	2/0 AWG	125 Navy	1/4	.65	.83	.13	.57	1/4	45	BLACK
54158UF		1/0 Weld	5/16	.88	.83	.13	.57	3/8	45	BLACK
54110UF		275/24 = 111 kcmil	3/8	.93	.83	.13	.57	3/8	45	BLACK
54160UF			1/2	1.25	.83	.13	.57	1/2	45	BLACK
54162UF	3/0 AWG	150 Navy, 2/0 Weld	1/4	.65	.92	.13	.63	1/4	50	ORANGE
54163UF		325/24 = 131 kcmil	5/16	.88	.92	.13	.63	3/8	50	ORANGE
54111UF		133/.0316, 259/.0227	3/8	.93	.92	.13	.63	3/8	50	ORANGE
54165UF			1/2	1.25	.92	.13	.63	1/2	50	ORANGE
54167UF	4/0 AWG	200 Navy	1/4	.65	1.03	.14	.70	1/4	54	PURPLE
54168UF		3/0 Weld	5/16	.87	1.03	.14	.70	3/8	54	PURPLE
54112UF		450/24 = 182 kcmil	3/8	.93	1.03	.14	.70	3/8	54	PURPLE
54170UF			1/2	1.25	1.03	.14	.70	1/2	54	PURPLE
58161UF		4/0 Weld	1/4	.78	1.25	.15	.79	3/8	62	YELLOW
58162UF		550/24 = 222 kcmil	5/16	.88	1.25	.15	.79	3/8	62	YELLOW
58163UF			3/8	.93	1.25	.15	.79	3/8	62	YELLOW
58165UF		259/.0286	1/2	1.25	1.25	.15	.79	1/2	62	YELLOW
58166UF		637/.0183	5/8	1.58	1.25	.15	.79	5/8	62	YELLOW

Tooling: Pg. E78-E102
Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed[®]

Connectors for Copper Conductor

One Hole Lugs - 45° Standard Barrel 600V to 35KV (continued)

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



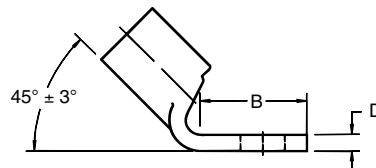
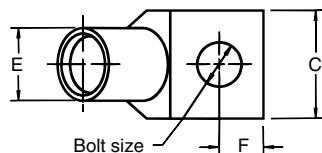
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Color-Keyed[®]

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)					Die Code	Die Color
	Code	Flex		B	C	D	E	F		
54172UF	250 kcmil	250 Navy	1/4	.65	1.13	.14	.77	1/4	62	YELLOW
54173UF			5/16	.88	1.13	.14	.77	3/8	62	YELLOW
54174UF			3/8	.93	1.13	.14	.77	3/8	62	YELLOW
54113UF			1/2	1.25	1.13	.14	.77	1/2	62	YELLOW
58168UF		250 Weld, 650/24 = 262 kcmil, 259/.0311, 703/.0189	1/2	1.25	1.25	.15	.85	1/2	66	WHITE
54178UF	300 kcmil	300 Navy	5/16	.88	1.25	.15	.85	3/8	66	WHITE
54179UF			3/8	.93	1.25	.15	.85	3/8	66	WHITE
54114UF			1/2	1.25	1.25	.15	.85	1/2	66	WHITE
54181UF			5/8	1.58	1.25	.15	.85	5/8	66	WHITE
58171UF		300 Weld, 259/.034, 427/.0265, 889/.0183 775/24 = 313 kcmil	1/2	1.25	1.36	.18	.93	1/2	71	RED
256-30695-112UF	350 kcmil	350 Navy	3/8	1.25	1.36	.18	.93	1/2	71	RED
54115UF			1/2	1.25	1.36	.18	.93	1/2	71	RED
54183UF			5/8	1.58	1.36	.18	.93	5/8	71	RED
58174UF		350 Weld, 259/.0368, 427/.0285, 703/.0224, 889/.0201	1/2	1.25	1.61	.22	1.09	1/2	76	BLUE
54116UF	400 kcmil	400 Navy	1/2	1.25	1.41	.17	.96	1/2	76	BLUE
54185UF			5/8	1.58	1.41	.17	.96	5/8	76	BLUE
256-30695-1403UF		400 Weld 925/24 = 373 kcmil	3/8	1.31	1.61	.22	1.04	5/8	80	N/A
58177UF			1/2	1.25	1.61	.22	1.04	1/2	80	N/A
54118UF	500 kcmil	500 Navy	1/2	1.25	1.61	.22	1.10	1/2	87	BROWN
54187UF			5/8	1.58	1.61	.22	1.10	5/8	87	BROWN
58180UF		1100/24 = 444 kcmil, 500 Weld, 259/.0417, 427/.0325, 703/.0253	5/8	1.58	1.75	.24	1.20	1/2	94	GREEN
54120UF	600 kcmil		5/8	1.58	1.75	.24	1.20	1/2	94	GREEN
54122UF	700 kcmil		5/8	1.58	1.84	.23	1.26	1/2	99	PINK
256-30695-840UF		1325/24 = 535 kcmil 427/.0342	1/2	1.69	1.81	.28	1.25	1 1/16	99	PINK
58182UF			5/8	1.58	1.81	.28	1.25	5/8	99	PINK
54123UF	750 kcmil		5/8	1.58	1.94	.27	1.33	5/8	106	BLACK
58184UF		1600/24 = 646 kcmil	5/8	1.58	1.94	.27	1.33	5/8	106	BLACK
54124UF	800 kcmil	800 Navy	5/8	1.58	2.01	.27	1.38	5/8	107	ORANGE
54126UF	900 kcmil	1925/24 = 777 kcmil	5/8	1.58	2.17	.31	1.50	5/8	115	YELLOW
54128UF	1000 kcmil	1000 Navy	5/8	1.58	2.27	.30	1.55	5/8	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

One Hole Lugs - 90° Standard Barrel

600V to 35KV

Material: High Conductivity Wrought Copper

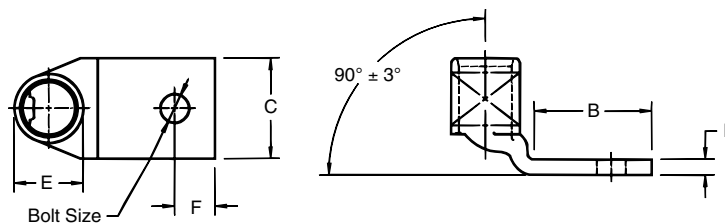
Finish: Electro Tin Plate



Cat. No.	Wire Size		Bolt Size	Dimensions (in.)					Die Code	Die Color
	Code	Flex		B	C	D	E	F		
54104UB	#8 AWG	23 Navy	#10	.50	.39	.08	.25	7/32	21	RED
54130UB		#8 Weld	1/4	.61	.45	.07	.25	1/4	21	RED
54131UB		37/24 = 14.9 kcmil	5/16	.64	.56	.05	.25	9/32	21	RED
54132UB			3/8	.64	.56	.05	.25	9/32	21	RED
54134UB	#6 AWG	30 Navy	#10	.53	.44	.07	.31	7/32	24	BLUE
54105UB		#6 Weld	1/4	.53	.44	.07	.31	7/32	24	BLUE
54135UB		61/24 = 24.6 kcmil	5/16	.67	.60	.07	.31	5/16	24	BLUE
54136UB			3/8	.67	.60	.07	.31	5/16	24	BLUE
54138UB	#4 AWG	40-50 Navy	#10	.60	.55	.09	.37	1/4	29	GREY
54106UB		91/24 = 36.7 kcmil	1/4	.60	.55	.09	.37	1/4	29	GREY
54139UB			5/16	.66	.61	.07	.37	5/16	29	GREY
54140UB		133/.0177	3/8	.66	.61	.07	.37	5/16	29	GREY
256-30695-264UB		49/.029	1/2	1.40	1.00	.06	.37	1/2	29	GREY
54107UB	#2 AWG	60 Navy	1/4	.65	.59	.11	.41	1/4	33	BROWN
54142UB		125/24 = 50.4 kcmil	5/16	.88	.59	.11	.41	3/8	33	BROWN
54143UB			3/8	.80	.59	.11	.41	3/8	33	BROWN
54145UB		#4 Weld	1/2	1.08	.75	.08	.41	1/2	33	BROWN
54108UB	#1 AWG	75 Navy, #2 Weld	1/4	.65	.68	.11	.47	1/4	37	GREEN
54147UB		150/24 = 60.5 kcmil	5/16	.93	.68	.11	.47	3/8	37	GREEN
54148UB		175/24 = 70.6 kcmil	3/8	.98	.68	.11	.47	3/8	37	GREEN
54150UB		133/.0223	1/2	1.25	.76	.11	.47	1/2	37	GREEN
54152UB	1/0 AWG	100 Navy	1/4	.65	.75	.13	.52	1/4	42	PINK
54153UB		#1 Weld	5/16	.88	.75	.13	.52	3/8	42	PINK
54109UB		225/24 = 90.8 kcmil	3/8	.93	.75	.13	.52	3/8	42	PINK
54155UB			1/2	1.25	.75	.13	.52	1/2	42	PINK
54157UB	2/0 AWG	125 Navy	1/4	.65	.83	.13	.57	1/4	45	BLACK
54158UB		1/0 Weld	5/16	.88	.83	.13	.57	3/8	45	BLACK
54110UB		275/24 = 111 kcmil	3/8	.93	.83	.13	.57	3/8	45	BLACK
54160UB		427/.0155, 133/.0282	1/2	1.25	.83	.13	.57	1/2	45	BLACK
54162UB	3/0 AWG	150 Navy, 2/0 Weld	1/4	.65	.92	.13	.63	1/4	50	ORANGE
54163UB		325/24 = 131 kcmil	5/16	.88	.92	.13	.63	3/8	50	ORANGE
54111UB		133/.0316, 259/.0227	3/8	.93	.92	.13	.63	3/8	50	ORANGE
54165UB			1/2	1.25	.92	.13	.63	1/2	50	ORANGE
54167UB	4/0 AWG	200 Navy	1/4	.65	1.03	.14	.70	1/4	54	PURPLE
54168UB		3/0 Weld	5/16	.87	1.03	.14	.70	3/8	54	PURPLE
54112UB		450/24 = 182 kcmil	3/8	.93	1.03	.14	.70	3/8	54	PURPLE
54170UB			1/2	1.25	1.03	.14	.70	1/2	54	PURPLE
58161UB		4/0 Weld	1/4	.78	1.25	.15	.79	3/8	62	YELLOW
58162UB		550/24 = 222 kcmil	5/16	.88	1.25	.15	.79	3/8	62	YELLOW
58163UB		133/.0399	3/8	.93	1.25	.15	.79	3/8	62	YELLOW
58165UB		259/.0286	1/2	1.25	1.25	.15	.79	1/2	62	YELLOW
58166UB		637/.0183	5/8	1.58	1.25	.15	.79	5/8	62	YELLOW

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

One Hole Lugs - 90° Standard Barrel 600V to 35KV (continued)

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate

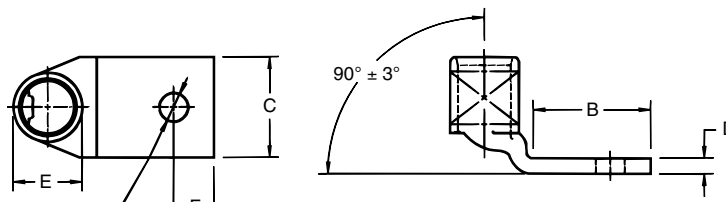


Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)					Die Code	Die Color
	Code	Flex		B	C	D	E	F		
54172UB	250 kcmil	250 Navy	1/4	.65	1.13	.14	.77	1/4	62	YELLOW
54173UB			5/16	.88	1.13	.14	.77	3/8	62	YELLOW
54174UB			3/8	.93	1.13	.14	.77	3/8	62	YELLOW
54113UB			1/2	1.25	1.13	.14	.77	1/2	62	YELLOW
58168UB		250 Weld, 650/24 = 262 kcmil, 259/.0311, 703/.0189	1/2	1.25	1.25	.15	.85	1/2	66	WHITE
54178UB	300 kcmil	300 Navy	5/16	.88	1.25	.15	.85	3/8	66	WHITE
54179UB			3/8	.93	1.25	.15	.85	3/8	66	WHITE
54114UB			1/2	1.25	1.25	.15	.85	1/2	66	WHITE
54181UB			5/8	1.58	1.25	.15	.85	5/8	66	WHITE
58171UB		300 Weld, 259/.034, 427/.0265, 889/.0183 775/24 = 313 kcmil	1/2	1.25	1.36	.18	.93	1/2	71	RED
256-30695-112UB	350 kcmil	350 Navy	3/8	1.25	1.36	.18	.93	1/2	71	RED
54115UB			1/2	1.25	1.36	.18	.93	1/2	71	RED
54183UB			5/8	1.58	1.36	.18	.93	5/8	71	RED
58174UB		350 Weld, 259/.0368, 427/.0285, 703/.0224, 889/.0201	1/2	1.25	1.61	.22	1.09	1/2	76	BLUE
54116UB	400 kcmil	400 Navy	1/2	1.25	1.41	.17	.96	1/2	76	BLUE
54185UB			5/8	1.58	1.41	.17	.96	5/8	76	BLUE
256-30695-1403UB		400 Weld, 925/24 = 373 kcmil	3/8	1.31	1.61	.22	1.04	5/8	80	N/A
58177UB		259/.0393, 427/.0306	1/2	1.25	1.61	.22	1.04	1/2	80	N/A
54118UB	500 kcmil	500 Navy	1/2	1.25	1.61	.22	1.10	1/2	87	BROWN
54187UB			5/8	1.58	1.61	.22	1.10	5/8	87	BROWN
58180UB		1100/24 = 444 kcmil, 500 Weld, 259/.0417, 427/.0325, 703/.0253	5/8	1.58	1.75	.24	1.20	5/8	94	GREEN
54120UB	600 kcmil		5/8	1.58	1.75	.24	1.20	5/8	94	GREEN
54122UB	700 kcmil		5/8	1.58	1.84	.23	1.26	5/8	99	PINK
256-30695-840UB		1325/24 = 535 kcmil	1/2	1.69	1.81	.28	1.25	13/16	99	PINK
58182UB		427/.0342	5/8	1.58	1.81	.28	1.25	5/8	99	PINK
54123UB	750 kcmil		5/8	1.58	1.94	.27	1.33	5/8	106	BLACK
58184UB		1600/24 = 646 kcmil	5/8	1.58	1.94	.27	1.33	5/8	106	BLACK
54124UB	800 kcmil	800 Navy	5/8	1.58	2.01	.27	1.38	5/8	107	ORANGE
54126UB	900 kcmil	1925/24 = 777 kcmil	5/8	1.58	2.17	.31	1.50	5/8	115	YELLOW
54128UB	1000 kcmil	1000 Navy	5/8	1.58	2.27	.30	1.55	5/8	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - Standard Barrel

600V to 35KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate

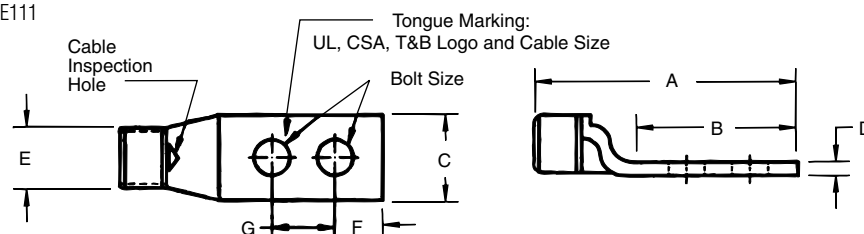


Cat. No.	Wire Size		Bolt Size	Dimensions (in.)							Die Code	Die Color
	Code	Flex		A	B	C	D	E	F	G		
256-30695-1302	#14-10 AWG		3/8	2.48	1.81	.56	.04	.22	3/8	1	ERG2002	YELLOW
54204			#10	1.88	1.18	.42	.08	.26	1/4	5/8	21	RED
256-31426-33*			#10	1.88	1.18	.41	.06	.26	7/32	5/8	21	RED
256-31426-33PH		23 Navy	#10	1.88	1.18	.41	.06	.26	7/32	5/8	21	RED
542040410	8 AWG	#8 Weld	1/4	2.01	1.31	.42	.08	.26	1/4	5/8	21	RED
542040416		37/24 = 14.9 kcmil	1/4	2.38	1.68	.42	.08	.26	1/4	1	21	RED
256-30695-1094			1/4	2.50	1.81	.56	.05	.26	1/4	3/4	21	RED
256-30695-251			3/8	2.50	1.81	.56	.05	.26	3/8	1	21	RED
256-30695-1070			#12	1.81	1.19	.44	.11	.30	1/4	1/2-5/8	24	BLUE
256-30695-1153			#10	1.98	1.28	.44	.08	.30	1/4	1/2	24	BLUE
256-30695-1183		30 Navy	#10	1.98	1.19	.44	.08	.30	7/32	5/8-3/4	24	BLUE
54205		#6 Weld	1/4	1.98	1.28	.44	.08	.30	1/4	5/8	24	BLUE
256-30695-1095	#6 AWG	61/24 = 24.6 kcmil	1/4	2.13	1.31	.43	.08	.30	1/4	3/4	24	BLUE
256-30695-252		133/.014	1/4	2.38	1.63	.55	.08	.30	1/4	1	24	BLUE
256-30695-372			1/4	2.13	1.43	.43	.08	.30	1/4	3/4	24	BLUE
256-30695-913			1/4	2.38	1.75	.43	.08	.30	1/4	1	24	BLUE
256-30695-253			3/8	2.58	1.81	.55	.08	.30	3/8	1	24	BLUE
54206		40-50 Navy	1/4	2.03	1.28	.52	.10	.37	1/4	5/8	29	GREY
256-30695-1184	#4 AWG	91/24 = 36.7 kcmil	5/16	2.31	1.63	.52	.10	.37	5/16	1	29	GREY
256-30695-255		133/.0177, 49/.029	3/8	2.56	1.81	.59	.09	.37	3/8	1	29	GREY
54207			1/4	2.13	1.28	.59	.11	.41	1/4	5/8	33	BROWN
256-30695-1355		60 Navy	1/4	2.15	1.31	.59	.13	.41	1/4	3/4	33	BROWN
256-30695-1185	#2 AWG	125/24 = 50.4 kcmil	1/4	2.38	1.53	.59	.11	.41	1/4	1	33	BROWN
256-30695-257		#4 Weld	3/8	2.67	1.81	.60	.1	.41	3/8	1	33	BROWN
256-30695-1049			1/2	3.75	2.88	.75	.09	.41	5/16	1 3/4	33	BROWN
54208		75 Navy	1/4	2.13	1.28	.68	.11	.47	1/4	5/8	37	GREEN
256-30695-1233	#1 AWG	150/24 = 60.5 kcmil	5/16	2.69	1.62	.69	.13	.47	1 1/32	1	37	GREEN
256-30695-1236		175/24 = 70.6 kcmil, 133/.0223	3/8	2.75	1.81	.68	.11	.47	3/8	1	37	GREEN
256-30695-329			1/4	2.75	1.81	.75	.14	.52	3/8	3/4	42	PINK
54255		100 Navy	5/16	2.56	1.56	.75	.14	.52	3/8	7/8	42	PINK
256-30695-1234	1/0 AWG	#1 Weld	5/16	2.75	1.78	.75	.14	.52	7/8	1	42	PINK
54209		225/24 = 90.8 kcmil	3/8	2.88	1.93	.75	.13	.52	3/8	1	42	PINK
256-30695-1265		133/.0254	3/8	3.50	2.57	.75	.14	.52	3/8	1 3/4	42	PINK
256-30695-886			1/2	3.78	2.83	.75	.13	.52	1/2	1 3/4	42	PINK
256-30695-1175			1/4	2.45	1.44	.83	.14	.57	1/4	3/4	45	BLACK
54261		125 Navy	5/16	2.70	1.63	.83	.14	.57	1/3	7/8	45	BLACK
256-30695-832	2/0 AWG	1/0 Weld	5/16	2.88	1.81	.81	.14	.57	3/8	1	45	BLACK
54210		275/24 = 111 kcmil	3/8	2.93	1.93	.83	.13	.57	3/8	1	45	BLACK
54260		133/.0282	1/2	3.83	2.81	.83	.14	.57	3/8	1 3/4	45	BLACK
54266		150 Navy, 2/0 Weld	5/16	2.88	1.75	.94	.14	.63	1/3	1	50	ORANGE
54211	3/0 AWG	325/24 = 131 kcmil	3/8	2.94	1.81	.94	.14	.63	3/8	1	50	ORANGE
54265		133/.0316, 259/.0227, 427/.0177	1/2	3.94	2.81	.94	.14	.63	1/2	1 3/4	50	ORANGE

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

*Blind End



Thomas & Betts

Color-Keyed[®]

Connectors for Copper Conductor

Two Hole Lugs - Standard Barrel 600V to 35KV (continued)

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate

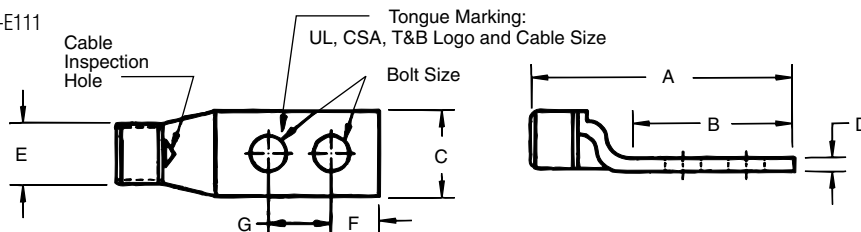


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Cat. No.	Wire Size		Bolt Size	Dimensions (in.)							Die Code	Die Color
	Code	Flex		A	B	C	D	E	F	G		
54212	4/0 AWG	200 Navy	3/8	3.18	1.93	1.03	.14	.70	3/8	1	54	PURPLE
54270		3/0 Weld	1/2	4.25	3.00	1.03	.14	.70	1/2	1 3/4	54	PURPLE
256-30695-1247		450/24 = 182 kcmil	1/4	3.06	1.44	1.03	.16	.70	3/8	5/8	54	PURPLE
256-30695-331		703/.0154	1/4	3.06	1.81	1.03	.14	.70	3/8	3/4	54	PURPLE
256-30695-1261			5/16	3.18	1.93	1.03	.14	.70	3/8	1	54	PURPLE
54213	250 kcmil	250 Navy	3/8	3.28	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54275			1/2	4.19	2.81	1.13	.18	.77	1/2	1 3/4	62	YELLOW
256-30695-345	256-30695-399	4/0 Weld	3/8	3.25	1.69	1.25	.15	.79	3/8	7/8	62	YELLOW
256-30695-399		550/24 = 222 kcmil	3/8	4.25	2.80	1.25	.15	.79	3/8	1	62	YELLOW
256-30695-452		133/.0399	3/8	3.13	1.88	1.25	.16	.79	3/8	7/8	62	YELLOW
58265		259/.0286, 637/.018	1/2	3.94	2.81	.94	.14	.79	1/2	1 3/4	62	YELLOW
54214	300 kcmil	300 Navy	3/8	3.45	1.93	1.25	.15	.85	3/8	1	66	WHITE
54280			1/2	4.45	3.00	1.25	.15	.85	1/2	1 3/4	66	WHITE
256-30695-332	350 kcmil	350 Navy	1/4	3.40	1.81	1.36	.18	.93	3/8	3/4	71	RED
256-30695-1240			5/16	4.18	2.63	1.36	.18	.93	3/8	1 3/4	71	RED
54215			3/8	3.51	1.93	1.36	.18	.93	3/8	1	71	RED
54282			1/2	4.60	3.00	1.36	.18	.93	1/2	1 3/4	71	RED
54216	400 kcmil		3/8	3.93	1.93	1.41	.17	.96	3/8	1	76	BLUE
54283			3/8	3.88	1.93	1.41	.17	.96	3/8	1 1/16	76	BLUE
256-30695-439	256-30695-839	400 Weld	3/8	4.35	2.25	1.61	.22	1.04	5/8	1	80	N/A
58277		925/24 = 373 kcmil	1/2	5.06	3.00	1.61	.22	1.04	1/2	1 3/4	80	N/A
256-30695-839		259/.0393, 427/.0306	3/8	4.09	2.06	1.61	.22	1.04	1/2	1	80	N/A
54218	500 kcmil	500 Navy	3/8	3.96	1.93	1.61	.22	1.10	3/8	1	87	BROWN
54286			1/2	5.07	3.00	1.61	.22	1.10	1/2	1 3/4	87	BROWN
256-30695-188			1/2	4.06	2.31	1.63	.22	1.10	1/2	1 1/4	87	BROWN
54220	600 kcmil	1100/24 = 444 kcmil	3/8	4.13	1.93	1.75	.24	1.20	3/8	1	94	GREEN
54289			1/2	5.23	3.00	1.75	.24	1.20	1/2	1 3/4	94	GREEN
256-30695-1406	256-30695-842	1325/24 = 535 kcmil	3/8	4.05	2.11	1.78	.24	1.25	1/2	1	99	PINK
256-30695-842			3/8	4.30	2.06	1.80	.28	1.25	1/2	1	99	PINK
256-30695-898			3/8	4.30	2.06	1.80	.28	1.25	1/2	1	99	PINK
54291			1/2	5.18	3.00	1.84	.23	1.25	1/2	1 3/4	99	PINK
58281			1/2	5.23	3.00	1.80	.28	1.25	1/2	1 3/4	99	PINK
256-30695-237	750 kcmil		3/8	5.10	2.80	1.94	.27	1.33	3/8	1	106	BLACK
54223			1/2	5.32	3.00	1.94	.27	1.33	1/2	1 3/4	106	BLACK
256-30695-1376	800 kcmil		3/8	4.78	2.28	2.01	.27	1.38	7/16	1 1/8	106	BLACK
54224			1/2	5.50	3.00	2.01	.27	1.38	1/2	1 3/4	106	BLACK
256-30695-694	900 kcmil	1925/24 = 777 kcmil	3/8	4.65	2.06	2.18	.31	1.50	1/2	1	115	YELLOW
54226			1/2	5.59	3.00	2.18	.31	1.50	1/2	1 3/4	115	YELLOW
256-30695-846			3/8	4.60	2.06	2.12	.31	1.50	1/2	1	115	YELLOW
256-30695-844			3/8	5.00	2.63	2.18	.31	1.50	9/16	1 1/2	115	YELLOW
54228	1000 kcmil	1000 Navy	1/2	5.45	3.00	2.27	.30	1.55	1/2	1 3/4	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed® Connectors for Copper Conductor

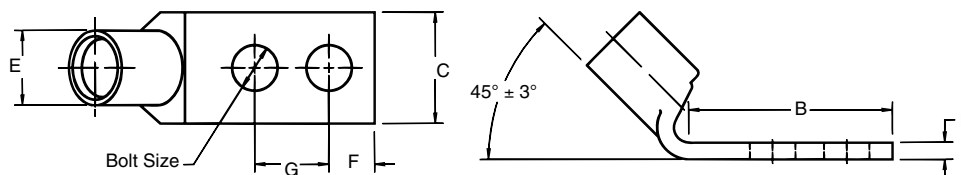
Two Hole Lugs - 45° Standard Barrel 600V to 35 KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
256-31426-9	#14-10 AWG		#10	1.22	.37	.05	.200	1/4	5/8	N/A	N/A
54204UF	#8 AWG	23 Navy #8 Weld 37/24 = 14.9 kcmil	#10	1.18	.42	.08	.26	1/4	5/8	21	RED
256-30695-1183UF	#6 AWG	30 Navy, #6 Weld	#10	1.19	.44	.08	.30	7/32	5/8-3/4	24	BLUE
54205UF		61/24 = 24.6 kcmil	1/4	1.28	.44	.08	.30	1/4	5/8	24	BLUE
54205UF0416		133/.014	1/4	1.56	.43	.08	.30	1/4	1	24	BLUE
54206UF	#4 AWG	40-50 Navy 91/24 = 36.7 kcmil 133/.0177, 49/.029	1/4	1.28	.52	.10	.37	1/4	5/8	29	GREY
54207UF	#2 AWG	60 Navy, #4 Weld	1/4	1.28	.59	.11	.41	1/4	5/8	33	BROWN
256-30695-257UF		125/24 = 50.4 kcmil	3/8	1.81	.60	.12	.41	3/8	1	33	BROWN
54208UF	#1 AWG	75 Navy 150/24 = 60.5 kcmil 175/24 = 70.6 kcmil, 133/.0223	1/4	1.28	.68	.11	.47	1/4	5/8	37	GREEN
54209UF	1/0 AWG	100 Navy #1 Weld	3/8	1.93	.75	.13	.52	3/8	1	42	PINK
54209UF0412		225/24 = 90.8 kcmil 133/.0254	1/4	1.55	.75	.13	.52	1/4	3/4	42	PINK
54261UF	2/0 AWG	125 Navy, 1/0 Weld	5/16	1.63	.83	.14	.57	1/2	7/8	45	BLACK
54210UF		275/24 = 111 kcmil	3/8	1.93	.83	.13	.57	3/8	1	45	BLACK
54260UF		133/.0282	1/2	2.81	.83	.14	.57	3/8	1 1/4	45	BLACK
54266UF	3/0 AWG	150 Navy, 2/0 Weld	5/16	1.75	.94	.14	.63	1/2	1	50	ORANGE
54211UF		325/24 = 131 kcmil	3/8	1.81	.94	.14	.63	3/8	1	50	ORANGE
54265UF		133/.0316 259/.0227 427/.0177	1/2	2.81	.94	.14	.63	1/2	1 1/4	50	ORANGE
54212UF	4/0 AWG	200 Navy 3/0 Weld	3/8	1.93	1.03	.14	.70	3/8	1	54	PURPLE
54270UF		450/24 = 182 kcmil 703/.0154	1/2	3.00	1.03	.14	.70	1/2	1 1/4	54	PURPLE
54213UF	250 kcmil	250 Navy	3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54275UF			1/2	2.81	1.13	.18	.77	1/2	1 1/4	62	YELLOW
256-30695-399UF		4/0 Weld	3/8	2.80	1.25	.15	.79	3/8	1	62	YELLOW
58265UF		550/24 = 222 kcmil 133/.0399, 259/.0286 637/.018	1/2	2.81	.94	.14	.79	1/2	1 1/4	62	YELLOW

Tooling: Pg. E78-E102
Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed[®]

Connectors for Copper Conductor

Two Hole Lugs - 45° Standard Barrel
600V to 35 KV (continued)

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



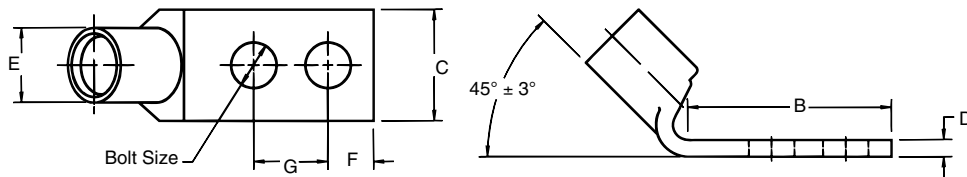
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Color-Keyed[®]

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
54214UF 54280UF	300 kcmil	300 Navy	$\frac{3}{8}$ $\frac{1}{2}$	1.93 3.00	1.25 1.25	.15 .15	.85 .85	$\frac{3}{8}$ $\frac{1}{2}$	1 1 $\frac{3}{4}$	66 66	WHITE WHITE
54215UF 54282UF	350 kcmil	350 Navy	$\frac{3}{8}$ $\frac{1}{2}$	1.93 3.00	1.36 1.36	.18 .18	.93 .93	$\frac{3}{8}$ $\frac{1}{2}$	1 1 $\frac{3}{4}$	71 71	RED RED
54216UF 54283UF	400 kcmil		$\frac{3}{8}$ $\frac{3}{8}$	1.93 1.93	1.41 1.41	.17 .17	.96 .96	$\frac{3}{8}$ $\frac{3}{8}$	1 1 $\frac{1}{8}$	76 76	BLUE BLUE
58277UF		400 Weld 925/24 = 373 kcmil 259/.0393, 427/.0306	$\frac{1}{2}$	3.00	1.61	.22	1.04	$\frac{1}{2}$	1 $\frac{3}{4}$	80	N/A
54218UF 54286UF	500 kcmil	500 Navy	$\frac{3}{8}$ $\frac{1}{2}$	1.93 3.00	1.61 1.61	.22 .22	1.10 1.10	$\frac{3}{8}$ $\frac{1}{2}$	1 1 $\frac{3}{4}$	87 87	BROWN BROWN
54220UF 54289UF	600 kcmil	1100/24 = 444 kcmil	$\frac{3}{8}$ $\frac{1}{2}$	1.93 3.00	1.75 1.75	.24 .24	1.20 1.20	$\frac{3}{8}$ $\frac{1}{2}$	1 1 $\frac{3}{4}$	94 94	GREEN GREEN
54291UF 58281UF	700 kcmil	1325/24 = 535 kcmil	$\frac{1}{2}$ $\frac{1}{2}$	3.00 3.00	1.84 1.8	.23 .28	1.25 1.25	$\frac{1}{2}$ $\frac{1}{2}$	1 $\frac{3}{4}$ 1 $\frac{3}{4}$	99 99	PINK PINK
256-30695-237UF 54223UF	750 kcmil		$\frac{3}{8}$ $\frac{1}{2}$	2.80 3.00	1.94 1.94	.27 .27	1.33 1.33	$\frac{3}{8}$ $\frac{1}{2}$	1 1 $\frac{3}{4}$	106 106	BLACK BLACK
54224UF	800 kcmil		$\frac{1}{2}$	3.00	2.01	.27	1.38	$\frac{1}{2}$	1 $\frac{3}{4}$	106	BLACK
54226UF	900 kcmil	1925/24 = 777 kcmil	$\frac{1}{2}$	3.00	2.18	.31	1.50	$\frac{1}{2}$	1 $\frac{3}{4}$	115	YELLOW
54228UF	1000 kcmil	1000 Navy	$\frac{1}{2}$	3.00	2.27	.30	1.55	$\frac{1}{2}$	1 $\frac{3}{4}$	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - 90° Standard Barrel

600V to 35KV Applications

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate

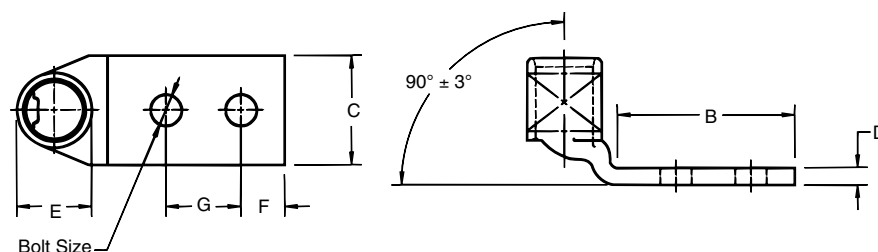


Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
256-31426-141	#14-10 AWG		#10	1.25	.37	.07	.20	7/32	5/8	ERG2002	YELLOW
256-31426-6SPH			#10	1.30	.37	.07	.20	7/32	5/8-3/4	ERG2002	YELLOW
256-31426-6			#10	1.30	.37	.07	.20	7/32	5/8	ERG2002	YELLOW
256-31426-6S			#10	1.30	.37	.07	.20	7/32	5/8-3/4	ERG2002	YELLOW
256-30695-1409	#8 AWG	23 Navy, #8 Weld 37/24 = 14.9 kcmil	#10	1.19	.41	.06	.26	7/32	5/8-3/4	21	RED
54204UB			#10	1.25	.42	.08	.26	1/4	5/8	21	RED
256-31426-33UB*			#10	1.19	.41	.06	.26	7/32	5/8-3/4	21	RED
256-31426-33UBPH			#10	1.19	.41	.06	.26	7/32	5/8-3/4	21	RED
256-30695-1411	#6 AWG	30 Navy #6 Weld 61/24 = 24.6 kcmil 133/.014	#10	1.19	.44	.08	.30	7/32	5/8-3/4	24	BLUE
256-30695-1183B			#10	1.19	.44	.08	.30	7/32	5/8-3/4	24	BLUE
256-30695-1356			#10	1.19	.43	.08	.30	7/32	5/8	24	BLUE
256-30695-1014B			1/4	1.50	.44	.08	.30	1/4	1	24	BLUE
54205UB			1/4	1.28	.44	.08	.30	1/4	5/8	24	BLUE
256-30695-252UB			1/4	1.56	.43	.08	.30	1/4	1	24	BLUE
54206UB	#4 AWG	40-50 Navy 91/24 = 36.7 kcmil 133/.0177, 49/.029	1/4	1.28	.52	.10	.37	1/4	5/8	29	GREY
54207UB	#2 AWG	60 Navy #4 Weld 125/24 = 50.4 kcmil	1/4	1.28	.59	.11	.41	1/4	5/8	33	BROWN
54208UB	#1 AWG	75 Navy 150/24 = 60.5 kcmil 175/24 = 70.6 kcmil, 133/.0223	1/4	1.28	.68	.11	.47	1/4	5/8	37	GREEN
54209UB	1/0 AWG	100 Navy, #1 Weld 225/24 = 90.8 kcmil, 133/.0254 225/24 = 90.8 kcmil, 133/.0254	3/8	1.93	.75	.13	.52	3/8	1	42	PINK
54209UB0412			1/4	1.55	.75	.13	.52	1/4	3/4	42	PINK
54261UB	2/0 AWG	125 Navy, 1/0 Weld 275/24 = 111 kcmil 133/.0282	5/8	1.63	.83	.14	.57	1 1/32	7/8	45	BLACK
54210UB			3/8	1.93	.83	.13	.57	3/8	1	45	BLACK
54260UB			1/2	2.81	.83	.14	.57	3/8	1 1/4	45	BLACK
54266UB	3/0 AWG	150 Navy, 2/0 Weld 325/24 = 131 kcmil 133/.0316, 259/.0227, 427/.0177	5/8	1.75	.94	.14	.63	1 1/32	1	50	ORANGE
54211UB			3/8	1.81	.94	.14	.63	3/8	1	50	ORANGE
54265UB			1/2	2.81	.94	.14	.63	1/2	1 3/4	50	ORANGE
54212UB	4/0 AWG	200 Navy, 3/0 Weld 450/24 = 182 kcmil, 703/.0154	3/8	1.93	1.03	.14	.70	3/8	1	54	PURPLE
54270UB			1/2	3.00	1.03	.14	.70	1/2	1 3/4	54	PURPLE
54213UB	250 kcmil	250 Navy	3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54275UB			1/2	2.81	1.13	.18	.77	1/2	1 3/4	62	YELLOW
256-30695-399UB		4/0 Weld, 550/24 = 222 kcmil 133/.0399, 259/.0286, 637/.018	3/8	2.80	1.25	.15	.79	3/8	1	62	YELLOW
58265UB			1/2	2.81	.94	.14	.79	1/2	1 3/4	62	YELLOW

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

*Blind End



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - 90° Standard Barrel 600V to 35KV Applications (continued)

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate

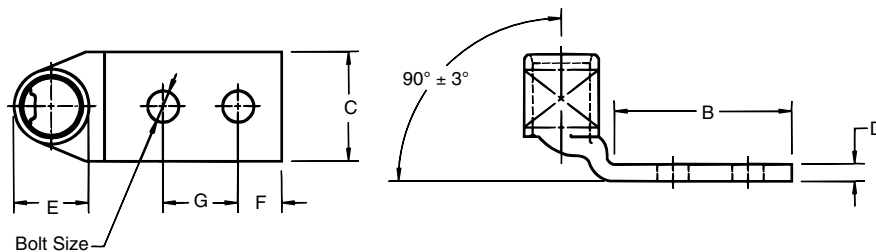


Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
54214UB	300 kcmil	300 Navy	¾	1.93	1.25	.15	.85	¾	1	66	WHITE
54280UB			½	3.00	1.25	.15	.85	½	1¾	66	WHITE
54215UB	350 kcmil	350 Navy	¾	1.93	1.36	.18	.93	¾	1	71	RED
54282UB			½	3.00	1.36	.18	.93	½	1¾	71	RED
54216UB	400 kcmil		¾	1.93	1.41	.17	.96	¾	1	76	BLUE
54283UB			¾	1.93	1.41	.17	.96	¾	1⅙	76	BLUE
58277UB	400 Weld, 925/24 = 373 kcmil 259/.0393, 427/.0306		½	3.00	1.61	.22	1.04	½	1¾	80	N/A
54218UB	500 kcmil	500 Navy	¾	1.93	1.61	.22	1.10	¾	1	87	BROWN
54286UB			½	3.00	1.61	.22	1.10	½	1¾	87	BROWN
256-30695-1221B			¾		1.61	.22	1.10	¾	1	87	BROWN
54220UB	600 kcmil	1100/24 = 444 kcmil	¾	1.93	1.75	.24	1.20	¾	1	94	GREEN
54289UB			½	3.00	1.75	.24	1.20	½	1¾	94	GREEN
54291UB	700 kcmil	1325/24 = 535 kcmil	½	3.00	1.84	.23	1.25	½	1¾	99	PINK
58281UB			½	3.00	1.80	.28	1.25	½	1¾	99	PINK
54223UB	750 kcmil		½	3.00	1.94	.27	1.33	½	1¾	106	BLACK
54224UB	800 kcmil		½	3.00	2.01	.27	1.38	½	1¾	106	BLACK
54226UB	900 kcmil	1925/24 = 777 kcmil	½	3.00	2.18	.31	1.50	½	1¾	115	YELLOW
54228UB	1000 kcmil	1000 Navy	½	3.00	2.27	.30	1.55	½	1¾	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Color-Keyed®

Connectors for Copper Conductor

Two-Way Splice Connectors - Standard Barrel 600V to 35KV

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate

Two-way connectors provide high pullout values, are easy to insulate, and provide a low resistance connection of high quality and low installed cost.



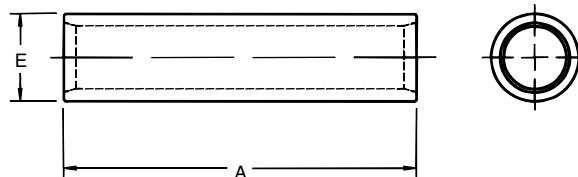
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Color-Keyed®

Cat. No.	Code	Wire Size	Flex	Dimensions (in.)		Die Code	Die Color
				A	E		
54504	#8 AWG	37/24 = 14.9 kcmil, #8 Weld		1.00	.27	21	RED
54505	#6 AWG	61/24 = 24.6 kcmil, #6 Weld, 133/.014		1.00	.30	24	BLUE
54506	#4 AWG	91/24 = 36.7 kcmil, 133/.0177, 49/.029		1.00	.37	29	GREY
54507	#2 AWG	125/24 = 50.4 kcmil, #4 Weld		1.25	.41	33	BROWN
54508	#1 AWG	150/24 = 60.5 kcmil, 175/24 = 70.6 kcmil, #2 Weld, 133/.0223		1.50	.47	37	GREEN
54509	1/0 AWG	225/24 = 90.8 kcmil, #1 Weld, 133/.0254		1.63	.52	42	PINK
54510	2/0 AWG	275/24 = 111 kcmil, 1/0 Weld, 427/.0155, 133/.0282		1.75	.57	45	BLACK
54511	3/0 AWG	325/24 = 131 kcmil, 2/0 Weld, 133/.0316, 259/.0227, 427/.0177		1.75	.63	50	ORANGE
53962		375/24 = 179 kcmil, 133/.0355, 259/.0255, 427/.0199		1.81	.70	50	ORANGE
54512	4/0 AWG	450/24 = 182 kcmil, 3/0 Weld, 703/.0154		1.88	.70	54	PURPLE
54513	250 kcmil			2.25	.77	62	YELLOW
53964		550/24 = 222 kcmil, 4/0 Weld, 133/.0399, 259/.0286, 637/.0183		2.13	.79	62	YELLOW
54514	300 kcmil			2.13	.83	66	WHITE
54515	350 kcmil			2.25	.90	71	RED
54516	400 kcmil			2.75	.93	76	BLUE
53968		1100/24 = 444 kcmil, 500 Weld, 259/.0417, 427/.0325, 703/.0253		3.00	1.13	87	BROWN
54518	500 kcmil			2.75	1.11	87	BROWN
54520	600 kcmil			3.00	1.18	94	GREEN
54522-TB	700 kcmil			3.25	1.23	99	PINK
53969		1325/24 = 535 kcmil, 427/.0342		3.00	1.24	99	PINK
54523-TB	750 kcmil			3.00	1.30	106	BLACK
54528	1000 kcmil			3.63	1.50	125	N/A
54530	1250 kcmil			4.13	1.67	140	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Narrow Tongue Lugs - Standard Barrel 600V Applications

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



Color-Keyed®

Cat. No.	Wire Size		Bolt Hole	Fig. #	Dimensions (in.)							Die Code	Die Color
	Code	Flex			A	B	C	D	E	F	G		
55112	#4 AWG	91/24 = 36.7 kcmil	¼	1	1.38	.56	.50	.09	.37	¼		29	GREY
55116	#2 AWG	125/24 = 50.4 kcmil	¼	1	1.50	.56	.50	.09	.41	¼		33	BROWN
55122	#1 AWG	150/24 = 60.5 kcmil, 175/24 = 70.6 kcmil, #2 Weld	¼	1	1.88	.94	.55	.11	.47	¼		37	GREEN
55130	1/0 AWG	225/24 = 90.8 kcmil	¼	1	1.88	.94	.64	.13	.52	¼		42	PIN
55136	2/0 AWG	275/24 = 111 kcmil, 1/0 Weld	¼	1	2.25	1.14	.64	.13	.57	¼		45	BLACK
55142	3/0 AWG	325/24 = 131 kcmil, 2/0 Weld	¼	1	2.37	1.14	.78	.13	.63	¼		50	ORANGE
55148	4/0 AWG	450/24 = 182 kcmil	¼	1	2.45	1.14	.78	.14	.70	¼		54	PURPLE
55156	250 kcmil	550/24 = 222 kcmil, 4/0 Weld	¼	1	2.85	1.14	.98	.14	.77	¼		62	YELLOW
55162	300 kcmil		¼	1	2.71	1.20	.98	.19	.85	⅝		66	WHITE
55165	350 kcmil		½	1	3.13	1.39	1.09	.18	.93	½		71	RED
256-30695-1340	350 kcmil		⅝	1	3.10	1.27	.98	.18	.93	½		71	RED
55171	500 kcmil	925/24 = 373 kcmil	½	1	3.58	1.39	1.20	.22	1.10	½		87	BROWN
54879NT	750 kcmil		⅝	2	5.00	2.02	1.66	.27	1.33	½	1	106	BLACK
256-30695-1266	750 kcmil	1325/24 = 535 kcmil	½	1	3.71	1.58	1.49	.27	1.33	¾		106	BLACK
55178	750 kcmil		⅝	1	3.71	1.70	1.49	.27	1.33	¾		106	BLACK
58825NT	900 kcmil	1925/24 = 777 kcmil	⅝	2	5.00	2.13	1.66	.31	1.50	½	1	115	YELLOW
58825NT0828	900 kcmil		½	2	5.75	2.88	1.66	.31	1.50	½	1¾	115	YELLOW

Tooling: Pg. E78-E102
Die Selector Chart: Pg. E107-E111

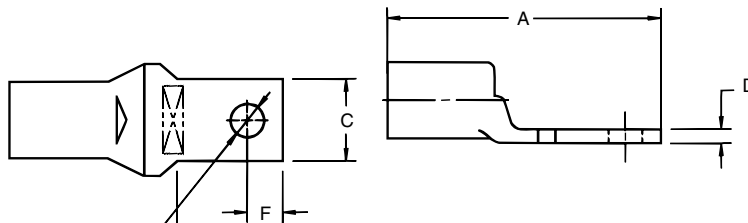


Figure 1

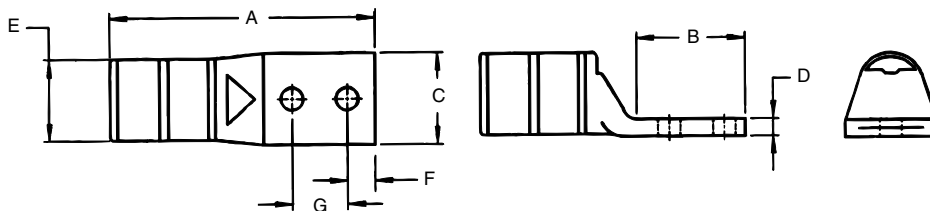


Figure 2

Color-Keyed®

Connectors for Copper Conductor

One-Hole Lugs - Long Barrel

600V to 35KV

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate



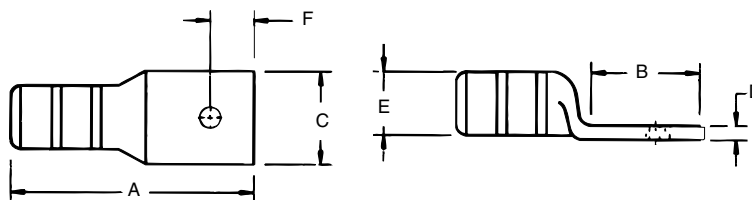
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Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		A	B	C	D	E	F		
54929BE 54930BE	#8 AWG	37/24 = 14.9 kcmil	#10 1/4	1.65 1.65	.65 .65	.42 .42	.08 .08	.26 .26	1/4 1/4	21 21	RED RED
54904BE 54905BE	#6 AWG	61/24 = 24.6 kcmil	#10 1/4	1.65 1.65	.65 .65	.44 .44	.08 .08	.30 .30	1/4 1/4	24 24	BLUE BLUE
54908BE 54906BE	#4 AWG	91/24 = 36.7 kcmil	#10 1/4	1.70 1.70	.65 .65	.52 .52	.10 .10	.37 .37	1/4 1/4	29 29	GREY GREY
54933BE 54942BE	#2-3 AWG	125/24 = 50.4 kcmil	#10 5/16	1.88 2.03	.65 .88	.59 .59	.11 .11	.41 .41	1/4 3/8	33 33	BROWN BROWN
54945BE 54947BE	#1 AWG	150/24 = 60.5 kcmil	#10 5/16	1.95 2.18	.65 .88	.68 .68	.11 .11	.47 .47	1/4 3/8	37 37	GREEN GREEN
54946BE 54949BE 54909BE 54950BE	1/0 AWG	225/24 = 90.8 kcmil	#10 5/16	1.95 2.18	.65 .88	.75 .75	.13 .13	.52 .52	1/4 3/8	42 42	PINK PINK
			3/8	2.23	.93	.75	.13	.52	3/8	42	PINK
			1/2	2.55	1.25	.75	.13	.52	1/2	42	PINK
54910BE 54951BE	2/0 AWG	275/24 = 111 kcmil	3/8 1/2	2.28 2.60	.93 1.25	.83 .83	.13 .13	.57 .57	3/8 1/2	45 45	BLACK BLACK
54965BE	3/0 AWG	325/24 = 131 kcmil	1/2	2.70	1.25	.92	.13	.63	1/2	50	ORANGE
256-30695-1252 256-30695-1253 54970BE	4/0 AWG	450/24 = 182 kcmil 3/0 Weld	1/4 3/8 1/2	2.35 2.95 2.95	.65 1.25 1.25	1.03 1.03 1.03	.14 .14 .14	.70 .70 .70	1/4 3/8 1/2	54 54 54	PURPLE PURPLE PURPLE
54913BE	250 kcmil	550/24 = 222 kcmil, 4/0 Weld	1/2	3.15	1.25	1.13	.14	.77	1/2	62	YELLOW
54914BE	300 kcmil	250	1/2	3.50	1.25	1.25	.15	.85	1/2	66	WHITE
54915BE	350 kcmil	650/24 = 262 kcmil	1/2	3.68	1.25	1.36	.18	.93	1/2	71	RED
54916BE 54917BE	400 kcmil	775/24 = 313 kcmil	1/2 5/8	3.75 4.03	1.25 1.58	1.41 1.41	.17 .17	.96 .96	1/2 5/8	76 76	BLUE BLUE
54918BE 54919BE	500 kcmil	925/24 = 373 kcmil	1/2 5/8	4.25 4.57	1.25 1.58	1.61 1.61	.22 .22	1.10 1.10	1/2 5/8	87 87	BROWN BROWN
54921BE 54920BE	600 kcmil	1100/24 = 444 kcmil	1/2 5/8	4.10 4.39	1.25 1.58	1.75 1.75	.24 .24	1.20 1.20	1/2 5/8	94 94	GREEN GREEN
54922BE 54923BE	750 kcmil	1325/24 = 535 kcmil	1/2 5/8	4.40 4.72	1.25 1.58	1.94 1.94	.27 .27	1.33 1.33	1/2 5/8	106 106	BLACK BLACK
58984BE		1600/24 = 646 kcmil	5/8	4.73	1.58	1.94	.27	1.33	5/8	106	BLACK
58926BE	900 kcmil	1925/24 = 777 kcmil	5/8	5.23	1.58	2.17	.310	1.50	5/8	115	YELLOW
54928BE 256-30695-918	1000 kcmil		5/8 7/8	5.24 5.42	1.58 1.82	2.27 2.37	.30 .30	1.55 1.55	5/8 7/8	125 125	N/A N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

One Hole Lugs - 45° Long Barrel
600V to 35KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate

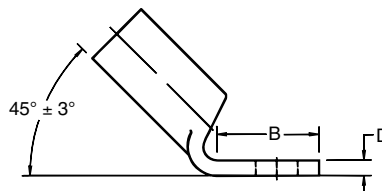
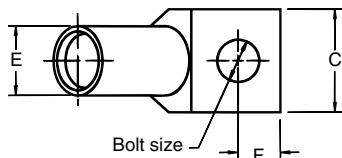


E

Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)					Die Code	Die Color
	Code	Flex		B	C	D	E	F		
54929BEUF 54930BEUF	#8 AWG	37/24 = 14.9 kcmil	#10 1/4	.65 .65	.42 .42	.08 .08	.26 .26	1/4 1/4	21 21	RED RED
54904BEUF 54905BEUF	#6 AWG	61/24 = 24.6 kcmil	#10 1/4	.65 .65	.44 .44	.08 .08	.30 .30	1/4 1/4	24 24	BLUE BLUE
54908BEUF 54906BEUF	#4 AWG	91/24 = 36.7 kcmil	#10 1/4	.65 .65	.52 .52	.10 .10	.37 .37	1/4 1/4	29 29	GREY GREY
54933BEUF 54942BEUF	#2-3 AWG	125/24 = 50.4 kcmil	#10 5/16	.65 .88	.59 .59	.11 .11	.41 .41	1/4 3/8	33 33	BROWN BROWN
54945BEUF 54947BEUF	#1 AWG	150/24 = 60.5 kcmil	#10 5/16	.65 .88	.68 .68	.11 .11	.47 .47	1/4 3/8	37 37	GREEN GREEN
54946BEUF 54949BEUF 54909BEUF 54950BEUF	1/0 AWG	225/24 = 90.8 kcmil	#10 5/16 3/8 1/2	.65 .88 .93 1.25	.75 .75 .75 .75	.13 .13 .13 .13	.52 .52 .52 .52	1/4 3/8 3/8 1/2	42 42 42 42	PINK PINK PINK PINK
54910BEUF 54951BEUF	2/0 AWG	275/24 = 111 kcmil	3/8 1/2	.93 1.25	.83 .83	.13 .13	.57 .57	3/8 1/2	45 45	BLACK BLACK
54965BEUF	3/0 AWG	325/24 = 131 kcmil	1/2	1.25	.92	.13	.63	1/2	50	ORANGE
54970BEUF04 54970BEUF06 54970BEUF	4/0 AWG	450/24 = 182 kcmil 3/0 Weld	1/4 3/8 1/2	1.00 1.13 1.25	1.03 1.03 1.03	.14 .14 .14	.70 .70 .70	1/4 3/8 1/2	54 54 54	PURPLE PURPLE PURPLE
54913BEUF	250 kcmil	550/24 = 222 kcmil, 4/0 Weld	1/2	1.25	1.13	.14	.77	1/2	62	YELLOW
54914BEUF	300 kcmil	250	1/2	1.25	1.25	.15	.85	1/2	66	WHITE
54915BEUF	350 kcmil	650/24 = 262 kcmil	1/2	1.25	1.36	.18	.93	1/2	71	RED
54916BEUF 54917BEUF	400 kcmil	775/24 = 313 kcmil	1/2 5/8	1.25 1.58	1.41 1.41	.17 .17	.96 .96	1/2 5/8	76 76	BLUE BLUE
54918BEUF 54919BEUF	500 kcmil	925/24 = 373 kcmil	1/2 5/8	1.25 1.58	1.61 1.61	.22 .22	1.10 1.10	1/2 5/8	87 87	BROWN BROWN
54921BEUF 54920BEUF	600 kcmil	1100/24 = 444 kcmil	1/2 5/8	1.25 1.58	1.75 1.75	.24 .24	1.20 1.20	1/2 5/8	94 94	GREEN GREEN
54922BEUF 54923BEUF	750 kcmil	1325/24 = 535 kcmil	1/2 5/8	1.25 1.58	1.94 1.94	.27 .27	1.33 1.33	1/2 5/8	106 106	BLACK BLACK
58984BEUF		1600/24 = 646 kcmil	5/8	1.58	1.94	.27	1.33	5/8	106	BLACK
58926BEUF	900 kcmil	1925/24 = 777 kcmil	5/8	1.58	2.17	.31	1.50	5/8	115	YELLOW
54928BEUF 54928BEUF12	1000 kcmil		5/8 7/8	1.58 1.83	2.27 2.37	.30 .30	1.55 1.55	5/8 7/8	125 125	N/A N/A

Tooling: Pg. E78-E102
 Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

One Hole Lugs - 90° Long Barrel 600V to 35KV

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate



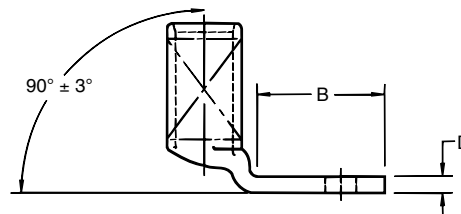
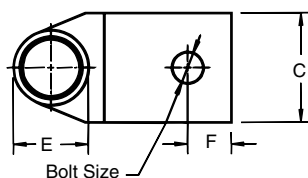
Peep holes
available.
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Cat. No.	Wire Size		Bolt Size	Dimensions (in.)					Die Code	Die Color
	Code	Flex		B	C	D	E	F		
54929BEUB 54930BEUB	#8 AWG	37/24 = 14.9 kcmil	#10 1/4	.65 .65	.42 .42	.08 .08	.26 .26	1/4 1/4	21 21	RED RED
54904BEUB 54905BEUB	#6 AWG	61/24 = 24.6 kcmil	#10 1/4	.65 .65	.44 .44	.08 .08	.30 .30	1/4 1/4	24 24	BLUE BLUE
54908BEUB 54906BEUB	#4 AWG	91/24 = 36.7 kcmil	#10 1/4	.65 .65	.52 .52	.10 .10	.37 .37	1/4 1/4	29 29	GREY GREY
54933BEUB 54942BEUB	#2-3 AWG	125/24 = 50.4 kcmil	#10 5/16	.65 .88	.59 .59	.11 .11	.41 .41	1/4 3/8	33 33	BROWN BROWN
54945BEUB 54947BEUB	#1 AWG	150/24 = 60.5 kcmil	#10 5/16	.65 .88	.68 .68	.11 .11	.47 .47	1/4 3/8	37 37	GREEN GREEN
54946BEUB 54949BEUB 54909BEUB 54950BEUB	1/0 AWG	225/24 = 90.8 kcmil	#10 5/16 3/8 1/2	.65 .88 .93 1.25	.75 .75 .75 .75	.13 .13 .13 .13	.52 .52 .52 .52	1/4 3/8 3/8 1/2	42 42 42 42	PINK PINK PINK PINK
54910BEUB 54951BEUB	2/0 AWG	275/24 = 111 kcmil	3/8 1/2	.93 1.25	.83 .83	.13 .13	.57 .57	3/8 1/2	45 45	BLACK BLACK
54965BEUB	3/0 AWG	325/24 = 131 kcmil	1/2	1.25	.92	.13	.63	1/2	50	ORANGE
54970BEUB04 54970BEUB06 54970BEUB	4/0 AWG	450/24 = 182 kcmil 3/0 Weld	1/4 3/8 1/2	1.00 1.13 1.25	1.03 1.03 1.03	.14 .14 .14	.70 .70 .70	1/4 3/8 1/2	54 54 54	PURPLE PURPLE PURPLE
54913BEUB	250 kcmil	550/24 = 222 kcmil, 4/0 Weld	1/2	1.25	1.13	.14	.77	1/2	62	YELLOW
54914BEUB	300 kcmil	250	1/2	1.25	1.25	.15	.85	1/2	66	WHITE
54915BEUB	350 kcmil	650/24 = 262 kcmil	1/2	1.25	1.36	.18	.93	1/2	71	RED
54916BEUB 54917BEUB	400 kcmil	775/24 = 313 kcmil	1/2 5/8	1.25 1.58	1.41 1.41	.17 .17	.96 .96	1/2 5/8	76 76	BLUE BLUE
54918BEUB 54919BEUB	500 kcmil	925/24 = 373 kcmil	1/2 5/8	1.25 1.58	1.61 1.61	.22 .22	1.10 1.10	1/2 5/8	87 87	BROWN BROWN
54921BEUB 54920BEUB	600 kcmil	1100/24 = 444 kcmil	1/2 5/8	1.25 1.58	1.75 1.75	.24 .24	1.20 1.20	1/2 5/8	94 94	GREEN GREEN
54922BEUB 54923BEUB	750 kcmil	1325/24 = 535 kcmil	1/2 5/8	1.25 1.58	1.94 1.94	.27 .27	1.33 1.33	1/2 5/8	106 106	BLACK BLACK
58984BEUB		1600/24 = 646 kcmil	5/8	1.58	1.94	.27	1.33	5/8	106	BLACK
58926BEUB	900 kcmil	1925/24 = 777 kcmil	5/8	1.58	2.17	.31	1.50	5/8	115	YELLOW
54928BEUB 54928BEUB12	1000 kcmil		5/8 7/8	1.58 1.83	2.27 2.37	.30 .30	1.55 1.55	5/8 7/8	125 125	N/A N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - Long Barrel
600V to 35KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



Peep holes
available.
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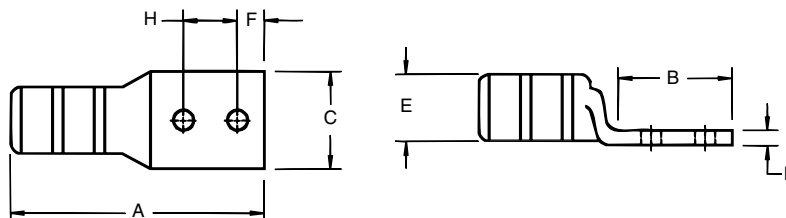
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Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)							Die Code	Die Color	
	Code	Flex		A	B	C	D	E	F	H			
256-31426-3	#14-10 AWG		#10	2.00	1.25	.37	.07	.20	1/4	5/8	ERG2002	YELLOW	
256-31426-3SPH	#14-10 AWG		#10	2.00	1.25	.37	.07	.20	7/32	5/8-3/4	ERG2002	YELLOW	
256-30695-1298	#14-10 AWG		1/4	1.89	1.22	.50	.05	.20	1/4	5/8	ERG2002	YELLOW	
256-30695-1730	#14-10 AWG		1/4	1.98	1.31	.50	.05	.20	1/4	5/8-3/4	ERG2002	YELLOW	
54850BE	#8 AWG	37/24 = 14.9 kcmil	1/4	2.19	1.89	.42	.07	.26	1/4	5/8	21	RED	
54851BE	#8 AWG		1/4	2.31	1.29	.47	.06	.26	1/4	3/4	21	RED	
256-30695-1157	#8 AWG	#8 Weld	3/8	3.00	2.10	.56	.06	.26	3/8	1	21	RED	
54852BE	#6 AWG	61/24 = 24.6 kcmil	1/4	2.28	1.28	.44	.08	.30	1/4	5/8	24	BLUE	
256-30695-1014	#6 AWG		1/4	2.63	1.63	.43	.08	.30	1/4	1	24	BLUE	
256-30695-1225	#6 AWG		1/4	2.43	1.43	.43	.08	.30	1/4	3/4	24	BLUE	
256-30695-1158	#6 AWG		#6 Weld	3/8	2.93	1.93	.59	.06	.30	3/8	1	24	BLUE
256-30695-868	#6 AWG		1/2	4.18	3.00	.88	.11	.30	1/2	1 3/4	24	BLUE	
54854BE	#4 AWG	91/24 = 36.7 kcmil	1/4	2.31	1.19	.52	.10	.37	1/4	5/8	29	GREY	
256-30695-1246	#4 AWG		1/4	2.31	1.31	.56	.09	.37	1/4	3/4	29	GREY	
256-30695-1015	#4 AWG		1/4	2.88	1.88	.58	.09	.37	3/8	1	29	GREY	
256-30695-1337	#4 AWG		#4 Weld	5/16	2.75	1.75	.56	.10	.37	1 1/32	1	29	GREY
256-30695-1159	#4 AWG		3/8	3.13	1.98	.59	.09	.37	3/8	1	29	GREY	
256-30695-733	#4 AWG		1/2	4.18	3.00	.88	.09	.37	1/2	1 3/4	29	GREY	
256-30695-1016	#2-3 AWG		125/24 = 50.4 kcmil	1/4	3.06	1.88	.67	.09	.41	3/8	1	33	BROWN
54855BE	#2-3 AWG	1/4		2.43	1.28	.59	.11	.41	1/4	5/8	33	BROWN	
256-30695-1300	#2-3 AWG	1/4		2.63	1.35	.68	.11	.41	1/4	3/4	33	BROWN	
54856BE	#2-3 AWG	5/16		2.78	1.63	.59	.11	.41	3/8	3/4	33	BROWN	
54810BE	#2-3 AWG	3/8		3.80	2.57	.59	.11	.41	3/8	1 3/4	33	BROWN	
256-30695-1160	#2-3 AWG	3/8		3.08	1.94	.59	.11	.41	3/8	1	33	BROWN	
256-30695-869	#2-3 AWG	1/2		4.02	2.88	.75	.09	.41	5/8	1 3/4	33	BROWN	
54811BE	#2-3 AWG	1/2	4.28	3.00	.88	.11	.41	1/2	1 3/4	33	BROWN		
54809BE	#1 AWG	150/24 = 60.5 kcmil	1/4	2.88	1.19	.67	.11	.47	1/4	5/8	37	GREEN	
54812BE	#1 AWG		1/4	2.75	1.40	.67	.11	.47	1/4	3/4	37	GREEN	
54858BE	#1 AWG	175/24 = 70.6 kcmil,	5/16	2.97	1.63	.67	.11	.47	3/8	7/8	37	GREEN	
256-30695-1161	#1 AWG		#2 Weld	3/8	3.30	1.98	.67	.11	.47	3/8	1	37	GREEN
54857BE	#1 AWG		1/2	4.43	3.00	.88	.11	.47	1/2	1 3/4	37	GREEN	
256-30695-1018	1/0 AWG	225/24 = 90.8 kcmil	1/4	3.63	1.88	.75	.13	.52	3/8	1	42	PINK	
256-30695-1018P	1/0 AWG		1/4	3.63	1.88	.75	.13	.52	3/8	1	42	PINK	
54859BE	1/0 AWG		1/4	2.63	1.19	.75	.13	.52	1/4	5/8	42	PINK	
54813BE	1/0 AWG		1/4	2.71	1.38	.75	.13	.52	1/4	3/4	42	PINK	
54860BE	1/0 AWG		1/2	2.97	1.63	.75	.13	.52	3/8	7/8	42	PINK	
256-30695-1162P	1/0 AWG		3/8	3.25	1.98	.75	.13	.52	3/8	1	42	PINK	
256-30695-1162	1/0 AWG		3/8	3.23	1.93	.75	.13	.52	3/8	1	42	PINK	
256-30695-593	1/0 AWG		1/2	4.33	3.00	.75	.13	.52	5/8	1 3/4	42	PINK	

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - Long Barrel

600V to 35KV (continued)

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



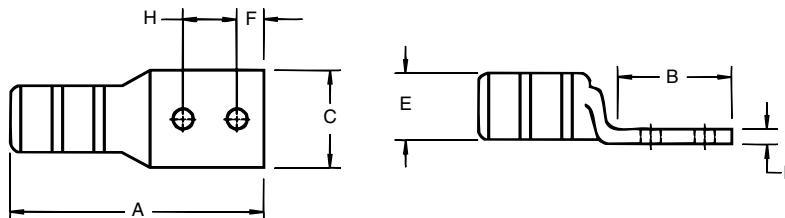
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Cat. No.	Wire Size			Dimensions (in.)							Die Code	Die Color
	Code	Flex	Bolt Size	A	B	C	D	E	F	H		
54814BE	2/0 AWG	275/24 = 111 kcmil 1/0 Weld	1/4	2.62	1.25	.83	.13	.57	1/4	5/8	45	BLACK
256-30695-1299	2/0 AWG		1/4	2.69	1.31	.81	.13	.57	1/4	3/4	45	BLACK
256-30695-1116	2/0 AWG		3/8	3.19	1.81	.83	.13	.57	3/8	1	45	BLACK
256-30695-1116P	2/0 AWG		3/8	3.19	1.81	.83	.13	.57	3/8	1	45	BLACK
54862BE	2/0 AWG		1/2	4.20	2.81	.83	.13	.57	1/2	1 3/4	45	BLACK
54815BE	3/0 AWG	325/24 = 131 kcmil	1/4	2.89	1.45	.92	.13	.63	1/4	3/4	50	ORANGE
54816BE	3/0 AWG		3/8	3.25	1.63	.92	.13	.63	3/8	1	50	ORANGE
54864BE	3/0 AWG		1/2	4.48	3.00	.94	.13	.63	1/2	1 3/4	50	ORANGE
54817BE	4/0 AWG	450/24 = 182 kcmil 3/0 Weld	1/4	3.15	1.38	1.03	.14	.70	1/4	3/4	54	PURPLE
54818BE	4/0 AWG		3/8	4.38	2.63	1.03	.14	.70	3/8	3/4	54	PURPLE
256-30695-1117	4/0 AWG		3/8	3.35	1.81	1.03	.14	.70	3/8	1	54	PURPLE
256-30695-1117P	4/0 AWG		3/8	3.50	1.88	1.03	.14	.70	3/8	1	54	PURPLE
54866BE	4/0 AWG		1/2	4.70	3.00	1.03	.14	.70	1/2	1 3/4	54	PURPLE
256-30695-1245	250 kcmil	550/24 = 222 kcmil, 4/0 Weld	3/8	3.83	1.93	1.13	.14	.77	3/8	1	62	YELLOW
256-30695-1245P	250 kcmil		3/8	3.83	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54868BE	250 kcmil		1/2	4.92	3.00	1.13	.14	.77	1/2	1 3/4	62	YELLOW
54819BE	300 kcmil	250	3/8	5.04	2.80	1.25	.15	.85	3/8	1	66	WHITE
54870BE	300 kcmil		1/2	5.23	3.00	1.25	.15	.85	1/2	1 3/4	66	WHITE
54820BE	350 kcmil	650/24 = 262 kcmil	1/4	4.29	1.93	1.36	.18	.93	1/4	3/4	71	RED
256-30695-1118	350 kcmil		3/8	4.33	1.93	1.36	.18	.93	3/8	1	71	RED
256-30695-1118P	350 kcmil		3/8	4.33	1.93	1.36	.18	.93	3/8	1	71	RED
54872BE	350 kcmil		1/2	5.40	3.00	1.36	.18	.93	1/2	1 3/4	71	RED
54822BE	400 kcmil	775/24 = 313 kcmil	1/4	4.38	1.93	1.41	.17	.96	1/4	3/4	76	BLUE
54821BE	400 kcmil		3/8	4.43	1.93	1.41	.17	.96	3/8	1	76	BLUE
54874BE	400 kcmil		1/2	5.51	3.00	1.41	.17	.96	1/2	1 3/4	76	BLUE
54823BE	500 kcmil	925/24 = 373 kcmil	1/4	4.93	1.94	1.61	.22	1.10	1/4	3/4	87	BROWN
256-30695-1119	500 kcmil		3/8	5.00	1.93	1.61	.22	1.10	3/8	1	87	BROWN
256-30695-1119P	500 kcmil		3/8	5.00	1.93	1.61	.22	1.10	3/8	1	87	BROWN
54876BE	500 kcmil		1/2	6.00	3.00	1.61	.22	1.10	1/2	1 3/4	87	BROWN
54824BE	600 kcmil	1100/24 = 444 kcmil	3/8	5.70	2.80	1.75	.24	1.20	3/8	1	94	GREEN
54878BE	600 kcmil		1/2	5.83	3.00	1.75	.24	1.20	1/2	1 3/4	94	GREEN
256-30695-1222	750 kcmil	1325/24 = 535 kcmil	3/8	5.25	2.06	1.94	.27	1.33	1/2	1	106	BLACK
256-30695-1222P	750 kcmil		3/8	5.25	2.06	1.94	.27	1.33	1/2	1	106	BLACK
54880BE	750 kcmil		1/2	6.20	3.00	1.94	.27	1.33	1/2	1 3/4	106	BLACK
58884BE		1600/24 = 646 kcmil	1/2	6.16	3.00	1.94	.27	1.33	1/2	1 3/4	106	BLACK
58826BE	900 kcmil	1925/24 = 777 kcmil	1/2	6.74	3.00	2.18	.31	1.50	1/2	1 3/4	115	YELLOW
54826BE	1000 kcmil		3/8	6.49	2.80	2.27	.30	1.55	3/8	1	125	N/A
54882BE	1000 kcmil		1/2	6.66	3.00	2.27	.30	1.55	3/8	1 3/4	125	N/A
54888BE	1250 kcmil		1/2	7.88	3.00	2.42	.35	1.67	5/8	1 3/4	140	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed® Connectors for Copper Conductor

Two Hole Lugs - 45° Long Barrel
600V to 35 KV

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



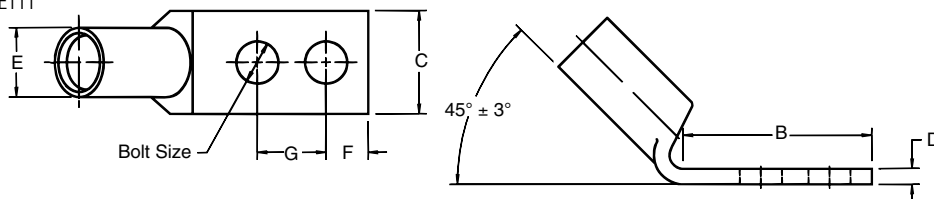
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Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
256-31426-3SPHUF	#14-10 AWG		#10	1.25	.37	.07	.20	7/32	5/8-3/4	ERG2002	YELLOW
256-30695-1298UF	#14-10 AWG		1/4	1.22	.50	.05	.20	1/4	5/8	ERG2002	YELLOW
256-30695-1055UF	#14-10 AWG		1/4	1.31	.50	.13	.36	1/4	5/8-3/4	ERG2002	YELLOW
54850BEUF	#8 AWG	37/24 = 14.9 kcmil	1/4	1.89	.42	.07	.26	1/4	5/8	21	RED
54851BEUF	#8 AWG	#8 Weld	1/4	1.29	.47	.06	.26	1/4	3/4	21	RED
54851BEUF0612	#8 AWG		3/8	1.42	.47	.06	.26	3/8	3/4	21	RED
54852BEUF	#6 AWG	61/24 = 24.6 kcmil	1/4	1.28	.44	.08	.30	1/4	5/8	24	BLUE
54852BEUF0416	#6 AWG	#6 Weld	1/4	1.63	.43	.08	.30	1/4	1	24	BLUE
54852BEUF0412	#6 AWG		1/4	1.43	.43	.08	.30	1/4	3/4	24	BLUE
54852BEUF0616	#6 AWG		3/8	1.93	.59	.06	.30	3/8	1	24	BLUE
54852BEUF0828	#6 AWG		1/2	3.00	.88	.11	.30	1/2	1 1/4	24	BLUE
54854BEUF	#4 AWG	91/24 = 36.7 kcmil	1/4	1.19	.52	.10	.37	1/4	5/8	29	GREY
54854BEUF0412	#4 AWG	#4 Weld	1/4	1.31	.56	.09	.37	1/4	3/4	29	GREY
54854BEUF0416	#4 AWG		1/4	1.88	.58	.09	.37	3/8	1	29	GREY
54854BEUF0516	#4 AWG		5/16	1.75	.56	.10	.37	1 1/32	1	29	GREY
54854BEUF0616	#4 AWG		3/8	1.98	.59	.09	.37	3/8	1	29	GREY
54854BEUF0828	#4 AWG		1/2	3.00	.88	.09	.37	1/2	1 1/4	29	GREY
54855BEUF0416	#2-3 AWG	125/24 = 50.4 kcmil	1/4	1.88	.67	.09	.41	3/8	1	33	BROWN
54855BEUF	#2-3 AWG		1/4	1.28	.59	.11	.41	1/4	5/8	33	BROWN
54855BEUF0412	#2-3 AWG		1/4	1.35	.68	.11	.41	1/4	3/4	33	BROWN
54856BEUF	#2-3 AWG		5/16	1.63	.59	.11	.41	3/8	3/4	33	BROWN
54810BEUF	#2-3 AWG		3/8	2.57	.59	.11	.41	3/8	1 1/4	33	BROWN
54810BEUF0616	#2-3 AWG		3/8	1.94	.59	.11	.41	3/8	1	33	BROWN
54811BEUF	#2-3 AWG		1/2	3.00	.88	.11	.41	1/2	1 1/4	33	BROWN
54809BEUF	#1 AWG	150/24 = 60.5 kcmil	1/4	1.19	.67	.11	.47	1/4	5/8	37	GREEN
54812BEUF	#1 AWG		1/4	1.40	.67	.11	.47	1/4	3/4	37	GREEN
54858BEUF	#1 AWG	175/24 = 70.6 kcmil,	5/16	1.63	.67	.11	.47	3/8	7/8	37	GREEN
54857BEUF0616	#1 AWG	#2 Weld	3/8	1.98	.67	.11	.47	3/8	1	37	GREEN
54857BEUF	#1 AWG		1/2	3.00	.88	.11	.47	1/2	1 1/4	37	GREEN
54859BEUF0416	1/0 AWG	225/24 = 90.8 kcmil	1/4	1.88	.75	.13	.52	3/8	1	42	PINK
54859BEUF0416PH	1/0 AWG		1/4	1.88	.75	.13	.52	3/8	1	42	PINK
54859BEUF	1/0 AWG		1/4	1.19	.75	.13	.52	1/4	5/8	42	PINK
54813BEUF	1/0 AWG		1/4	1.38	.75	.13	.52	1/4	3/4	42	PINK
54860BEUF	1/0 AWG		5/16	1.63	.75	.13	.52	3/8	7/8	42	PINK
54860BEUF0616	1/0 AWG		3/8	1.98	.75	.13	.52	3/8	1	42	PINK
54860BEUF0616PH	1/0 AWG		3/8	1.93	.75	.13	.52	3/8	1	42	PINK
54860BEUF0828	1/0 AWG		1/2	3.00	.75	.13	.52	5/8	1 1/4	42	PINK
54814BEUF	2/0 AWG	275/24 = 111 kcmil	1/4	1.25	.83	.13	.57	1/4	5/8	45	BLACK
54814BEUF0412	2/0 AWG	1/0 Weld	1/4	1.31	.81	.13	.57	1/4	3/4	45	BLACK
54862BEUF0616	2/0 AWG		3/8	1.81	.83	.13	.57	3/8	1	45	BLACK
54865BEUF0616PH	2/0 AWG		3/8	1.81	.83	.13	.57	3/8	1	45	BLACK
54862BEUF	2/0 AWG		1/2	2.81	.83	.13	.57	1/2	1 1/4	45	BLACK

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - 45° Long Barrel 600V to 35 KV (continued)

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate



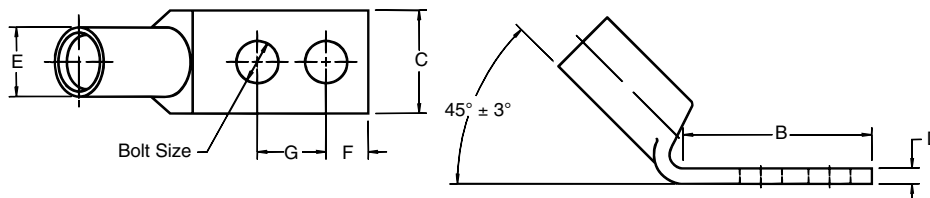
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Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
54815BEUF	3/0 AWG	325/24 = 131 kcmil	1/4	1.45	.92	.13	.63	1/4	3/4	50	ORANGE
54816BEUF	3/0 AWG		3/8	1.63	.92	.13	.63	3/8	1	50	ORANGE
54864BEUF	3/0 AWG		1/2	3.00	.94	.13	.63	1/2	1 3/4	50	ORANGE
54817BEUF	4/0 AWG	450/24 = 182 kcmil 3/0 Weld	1/4	1.38	1.03	.14	.70	1/4	3/4	54	PURPLE
54818BEUF	4/0 AWG		3/8	2.63	1.03	.14	.70	3/8	1 3/4	54	PURPLE
54818BEUF0616	4/0 AWG		3/8	1.81	1.03	.14	.70	3/8	1	54	PURPLE
54818BEUF0616PH	4/0 AWG		3/8	1.88	1.03	.14	.70	3/8	1	54	PURPLE
54866BEUF	4/0 AWG		1/2	3.00	1.03	.14	.70	1/2	1 3/4	54	PURPLE
54868BEUF0616	250 kcmil	550/24 = 222 kcmil 4/0 Weld	3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54868BEUF0616PH	250 kcmil		3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54868BEUF	250 kcmil		1/2	3.00	1.13	.14	.77	1/2	1 3/4	62	YELLOW
54819BEUF	300 kcmil	250	3/8	2.80	1.25	.15	.85	3/8	1	66	WHITE
54870BEUF	300 kcmil		1/2	3.00	1.25	.15	.85	1/2	1 3/4	66	WHITE
54820BEUF	350 kcmil	650/24 = 262 kcmil	1/4	1.93	1.36	.18	.93	1/4	3/4	71	RED
54872BEUF0616	350 kcmil		3/8	1.93	1.36	.18	.93	3/8	1	71	RED
54872BEUF0616PH	350 kcmil		3/8	1.93	1.36	.18	.93	3/8	1	71	RED
54872BEUF	350 kcmil		1/2	3.00	1.36	.18	.93	1/2	1 3/4	71	RED
54822BEUF	400 kcmil	775/24 = 313 kcmil	1/4	1.93	1.41	.17	.96	1/4	3/4	76	BLUE
54821BEUF	400 kcmil		3/8	1.93	1.41	.17	.96	3/8	1	76	BLUE
54874BEUF	400 kcmil		1/2	3.00	1.41	.17	.96	1/2	1 3/4	76	BLUE
54823BEUF	500 kcmil	925/24 = 373 kcmil	1/4	1.94	1.61	.22	1.10	1/4	3/4	87	BROWN
54876BEUF0616	500 kcmil		3/8	1.93	1.61	.22	1.10	3/8	1	87	BROWN
54876BEUF0616PH	500 kcmil		3/8	1.93	1.61	.22	1.10	3/8	1	87	BROWN
54876BEUF	500 kcmil		1/2	3.00	1.61	.22	1.10	1/2	1 3/4	87	BROWN
54824BEUF	600 kcmil	1100/24 = 444 kcmil	3/8	2.80	1.75	.24	1.20	3/8	1	94	GREEN
54878BEUF	600 kcmil		1/2	3.00	1.75	.24	1.20	1/2	1 3/4	94	GREEN
54880BEUF0616	750 kcmil	1325/24 = 535 kcmil	3/8	2.06	1.94	.27	1.33	1/2	1	106	BLACK
54880BEUF0616PH	750 kcmil		3/8	2.06	1.94	.27	1.33	1/2	1	106	BLACK
54880BEUF	750 kcmil		1/2	3.00	1.94	.27	1.33	1/2	1 3/4	106	BLACK
58884BEUF		1600/24 = 646 kcmil	1/2	3.00	1.94	.27	1.33	1/2	1 3/4	106	BLACK
58826BEUF	900 kcmil	1925/24 = 777 kcmil	1/2	3.00	2.18	.31	1.50	1/2	1 3/4	115	YELLOW
54826BEUF	1000 kcmil		3/8	2.80	2.27	.30	1.55	3/8	1	125	N/A
54882BEUF	1000 kcmil		1/2	3.00	2.27	.30	1.55	1/2	1 3/4	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - 90° Long Barrel
600V to 35KV Applications

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



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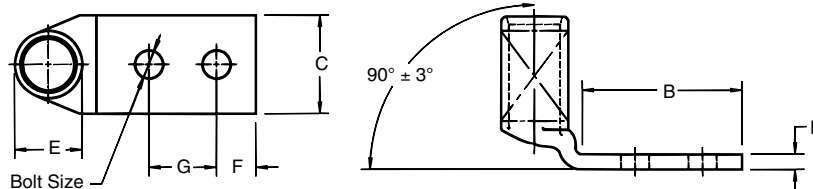
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Color-Keyed®

Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
256-31426-3SPHUB	#14-10 AWG		#10	1.25	.37	.07	.20	7/32	5/8-3/4	ERG2002	YELLOW
256-30695-1298UB	#14-10 AWG		1/4	1.22	.50	.05	.20	1/4	5/8	ERG2002	YELLOW
256-30695-1055UB	#14-10 AWG		1/4	1.31	.50	.13	.36	1/4	5/8-3/4	ERG2002	YELLOW
54850BEUB	#8 AWG	37/24 = 14.9 kcmil	1/4	1.89	.42	.07	.26	1/4	19/16	21	RED
54851BEUB	#8 AWG		1/4	1.29	.47	.06	.26	1/4	3/4	21	RED
54851BEUB0616	#8 AWG	#8 Weld	3/8	2.10	.56	.06	.26	3/8	1	21	RED
54852BEUB	#6 AWG	61/24 = 24.6 kcmil	1/4	1.28	.44	.08	.30	1/4	5/8	24	BLUE
54852BEUB0416	#6 AWG		1/4	1.63	.43	.08	.30	1/4	1	24	BLUE
54852BEUB0412	#6 AWG	#6 Weld	1/4	1.43	.43	.08	.30	1/4	3/4	24	BLUE
54852BEUB0616	#6 AWG		3/8	1.93	.59	.06	.30	3/8	1	24	BLUE
54852BEUB0828	#6 AWG		1/2	3.00	.88	.11	.30	1/2	13/4	24	BLUE
54854BEUB	#4 AWG	91/24 = 36.7 kcmil	1/4	1.19	.52	.10	.37	1/4	5/8	29	GREY
54854BEUB0412	#4 AWG		1/4	1.31	.56	.09	.37	1/4	3/4	29	GREY
54854BEUB0416	#4 AWG	#4 Weld	1/4	1.88	.58	.09	.37	3/8	1	29	GREY
54854BEUB0516	#4 AWG		5/16	1.75	.56	.10	.37	11/32	1	29	GREY
54854BEUB0616	#4 AWG		3/8	1.98	.59	.09	.37	3/8	1	29	GREY
54854BEUB0828	#4 AWG		1/2	3.00	.88	.09	.37	1/2	13/4	29	GREY
54858BEUB0416	#2-3 AWG	125/24 = 50.4 kcmil	1/4	1.88	.67	.09	.41	3/8	1	33	BROWN
54855BEUB	#2-3 AWG		1/4	1.28	.59	.11	.41	1/4	5/8	33	BROWN
54855BEUB0412	#2-3 AWG		1/4	1.35	.68	.11	.41	1/4	3/4	33	BROWN
54856BEUB	#2-3 AWG		5/16	1.63	.59	.11	.41	3/8	3/4	33	BROWN
54810BEUB	#2-3 AWG		3/8	2.57	.59	.11	.41	3/8	13/4	33	BROWN
54810BEUB0616	#2-3 AWG		3/8	1.94	.59	.11	.41	3/8	1	33	BROWN
54811BEUB	#2-3 AWG		1/2	3.00	.88	.11	.41	1/2	13/4	33	BROWN
54809BEUB	#1 AWG	150/24 = 60.5 kcmil	1/4	1.19	.67	.11	.47	1/4	5/8	37	GREEN
54812BEUB	#1 AWG		1/4	1.40	.67	.11	.47	1/4	3/4	37	GREEN
54858BEUB	#1 AWG	175/24 = 70.6 kcmil	5/16	1.63	.67	.11	.47	3/8	7/8	37	GREEN
54857BEUB0616	#1 AWG	#2 Weld	3/8	1.98	.67	.11	.47	3/8	1	37	GREEN
54857BEUB	#1 AWG		1/2	3.00	.88	.11	.47	1/2	13/4	37	GREEN
54859BEUB0416	1/0 AWG	225/24 = 90.8 kcmil	1/4	1.88	.75	.13	.52	3/8	1	42	PINK
54859BEUB0416PH	1/0 AWG		1/4	1.88	.75	.13	.52	3/8	1	42	PINK
54859BEUB	1/0 AWG		1/4	1.19	.75	.13	.52	1/4	5/8	42	PINK
54813BEUB	1/0 AWG		1/4	1.38	.75	.13	.52	1/4	3/4	42	PINK
54860BEUB	1/0 AWG		5/16	1.63	.75	.13	.52	3/8	7/8	42	PINK
54860BEUB0616	1/0 AWG		3/8	1.98	.75	.13	.52	3/8	1	42	PINK
54860BEUB0828	1/0 AWG		1/2	3.00	.75	.13	.52	3/8	13/4	42	PINK
54814BEUB	2/0 AWG	275/24 = 111 kcmil	1/4	1.25	.83	.13	.57	1/4	5/8	45	BLACK
54814BEUB0412	2/0 AWG		1/4	1.31	.81	.13	.57	1/4	3/4	45	BLACK
54862BEUB0616	2/0 AWG	1/0 Weld	3/8	1.81	.83	.13	.57	3/8	1	45	BLACK
54862BEUB0616PH	2/0 AWG		3/8	1.81	.83	.13	.57	3/8	1	45	BLACK
54862BEUB	2/0 AWG		1/2	2.81	.83	.13	.57	1/2	13/4	45	BLACK

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Hole Lugs - 90° Long Barrel
600V to 35KV Applications (continued)

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate



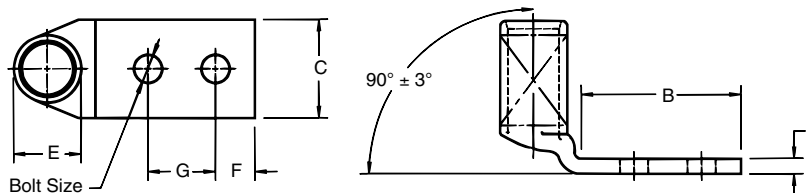
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Cat. No.	Wire Size		Bolt Size	Dimensions (in.)						Die Code	Die Color
	Code	Flex		B	C	D	E	F	G		
54815BEUB	3/0 AWG	325/24 = 131 kcmil	1/4	1.45	.92	.13	.63	1/4	3/4	50	ORANGE
54816BEUB	3/0 AWG		3/8	1.63	.92	.13	.63	3/8	1	50	ORANGE
54864BEUB	3/0 AWG		1/2	3.00	.94	.13	.63	1/2	1 1/4	50	ORANGE
54817BEUB	4/0 AWG	450/24 = 182 kcmil 3/0 Weld	1/4	1.38	1.03	.14	.70	1/4	3/4	54	PURPLE
54818BEUB	4/0 AWG		3/8	2.63	1.03	.14	.70	3/8	1 1/4	54	PURPLE
54818BEUB0616	4/0 AWG		3/8	1.81	1.03	.14	.70	3/8	1	54	PURPLE
54818BEUB0616PH	4/0 AWG		3/8	1.88	1.03	.14	.70	3/8	1	54	PURPLE
54866BEUB	4/0 AWG		1/2	3.00	1.03	.14	.70	1/2	1 1/4	54	PURPLE
54868BEUB0616	250 kcmil	550/24 = 222 kcmil 4/0 Weld	3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54868BEUB0616PH	250 kcmil		3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW
54868BEUB	250 kcmil		1/2	3.00	1.13	.14	.77	1/2	1 1/4	62	YELLOW
54819BEUB	300 kcmil	250	3/8	2.80	1.25	.15	.85	3/8	1	66	WHITE
54870BEUB	300 kcmil		1/2	3.00	1.25	.15	.85	1/2	1 1/4	66	WHITE
54820BEUB	350 kcmil	650/24 = 262 kcmil	1/4	1.93	1.36	.18	.93	1/4	3/4	71	RED
54872BEUB0616	350 kcmil		3/8	1.93	1.36	.18	.93	3/8	1	71	RED
54872BEUB0616PH	350 kcmil		3/8	1.93	1.36	.18	.93	3/8	1	71	RED
54872BEUB	350 kcmil		1/2	3.00	1.36	.18	.93	1/2	1 1/4	71	RED
54822BEUB	400 kcmil	775/24 = 313 kcmil	1/4	1.93	1.41	.17	.96	1/4	3/4	76	BLUE
54821BEUB	400 kcmil		3/8	1.93	1.41	.17	.96	3/8	1	76	BLUE
54874BEUB	400 kcmil		1/2	3.00	1.41	.17	.96	1/2	1 1/4	76	BLUE
54823BEUB	500 kcmil	925/24 = 373 kcmil	1/4	1.94	1.61	.22	1.10	1/4	3/4	87	BROWN
54823BEUB0616	500 kcmil		3/8	1.93	1.61	.22	1.10	3/8	1	87	BROWN
54876BEUB0616PH	500 kcmil		3/8	1.93	1.61	.22	1.10	3/8	1	87	BROWN
54876BEUB0616PH	500 kcmil		1/2	3.00	1.61	.22	1.10	1/2	1 1/4	87	BROWN
54824BEUB	600 kcmil	1100/24 = 444 kcmil	3/8	2.80	1.75	.24	1.20	3/8	1	94	GREEN
54878BEUB	600 kcmil		1/2	3.00	1.75	.24	1.20	1/2	1 1/4	94	GREEN
54880BEUB0616	750 kcmil	1325/24 = 535 kcmil	3/8	2.06	1.94	.27	1.33	1/2	1	106	BLACK
54880BEUB0616PH	750 kcmil		3/8	2.06	1.94	.27	1.33	1/2	1	106	BLACK
54880BEUB	750 kcmil		1/2	3.00	1.94	.27	1.33	1/2	1 1/4	106	BLACK
58884BEUB		1600/24 = 646 kcmil	1/2	3.00	1.94	.27	1.33	1/2	1 1/4	106	BLACK
58826BEUB	900 kcmil	1925/24 = 777 kcmil	1/2	3.00	2.18	.31	1.50	1/2	1 1/4	115	YELLOW
54826BEUB	1000 kcmil		3/8	2.80	2.27	.30	1.55	3/8	1	125	N/A
54882BEUB	1000 kcmil		3/8	3.00	2.27	.30	1.55	1/2	1 1/4	125	N/A

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two-Way Splice Connectors - Long Barrel

600V to 35KV Applications

Material: High Conductivity Wrought Copper

Finish: Electro Tin Plate

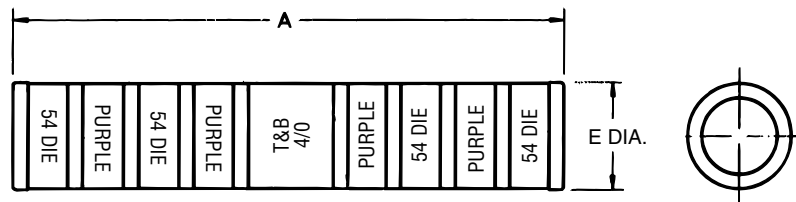


Color-Keyed®

Cat. No.	Code	Wire Size	Flex	Dimensions (in.)		Die Code	Die Color
				A	E		
54804	#8 AWG		37/24 = 14.9 kcmil	1.75	.27	21	RED
54805	#6 AWG		61/24 = 24.6 kcmil	1.75	.31	24	BLUE
54806	#4 AWG		91/24 = 36.7 kcmil	1.75	.39	29	GREY
54807	#2 AWG		125/24 = 50.4 kcmil	1.88	.43	33	BROWN
54808	#1 AWG		150/24 = 60.5 kcmil, 175/24 = 70.6 kcmil	2.00	.49	37	GREEN
54809	1/0 AWG		225/24 = 90.8 kcmil	2.00	.54	42	PINK
54810	2/0 AWG		275/24 = 111 kcmil	2.13	.59	45	BLACK
54811	3/0 AWG		325/24 = 131 kcmil	2.25	.65	50	ORANGE
54812	4/0 AWG		450/24 = 182 kcmil	2.75	.72	54	PURPLE
54813	250 kcmil		550/24 = 222 kcmil	3.38	.79	62	YELLOW
54814	300 kcmil			3.50	.87	66	WHITE
54815	350 kcmil		650/24 = 262 kcmil	3.75	.95	71	RED
54816	400 kcmil		775/24 = 313 kcmil	3.75	.98	76	BLUE
54818	500 kcmil		925/24 = 373 kcmil	4.75	1.11	87	BROWN
54820	600 kcmil		1100/24 = 444 kcmil	4.25	1.21	94	GREEN
54823	750 kcmil		1325/24 = 535 kcmil	4.75	1.34	106	BLACK
58524			1600/24 = 646 kcmil	5.00	1.39	106	BLACK
58526	900 kcmil		1925/24 = 777 kcmil	5.50	1.51	115	YELLOW
54828	1000 kcmil			5.63	1.56	125	N/A
54839	2000 kcmil			7.06	2.125		

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Standard Barrel – Belled End Lugs



E

Color-Keyed®

Bell Shaped Barrel

Cat. No.	Wire Size*			Class G	Class H	Class I	Class K	Class M	Bolt Size (in.)	Dimensions (in.)					Die Color	Die Code
	Code	Navy	Flex							A	B	C	D	F		
541048BS	8	23	37/24	8	8	—	8	8	#10	1 1/16	1 5/32	1 3/32	5/64	7/32	Red	21
541056BS	6	30	61/24	5	5	—	5	5	1/4	1 3/16	9/16	7/16	7/64	1/4	Blue	24
541065BS	4	40-50	91/24	5	5	5	5	5	1/4	1 3/32	9/16	9/16	7/64	1/4	Grey	29
541394BS	3 & 4	40-50	91/24	4	4	4	4	4	5/16	1 7/16	2 5/32	1 9/32	5/64	1 1/32	Grey	29
541423BS	2	60	125/24	3	3	3	3	3	5/16	1 17/32	2 3/32	2 1/32	5/64	1 1/32	Brown	33
541472BS	1	75	150, 175/24	2	2	2	2	2	5/16	1 21/32	2 3/32	4 3/64	1/8	3/8	Green	37
541531BS	1/0	100	225/24	1	1	1	1	1	5/16	1 9/8	2 3/32	3/4	9/64	3/8	Pink	42
5411010BS	2/0	125	275/24	1/0	1/0	1/0	1/0	1/0	3/8	1 7/8	1 3/16	1 3/16	9/64	3/8	Black	45
5416520BS	3/0	150	325/24	2/0	2/0	2/0	2/0	2/0	1/2	2 7/32	1 1/4	1 5/16	9/64	1/2	Orange	50
5417030BS	4/0	200	450/24	3/0	3/0	3/0	3/0	3/0	1/2	2 5/16	1 1/4	1 1/32	5/32	1/2	Purple	54
5816540BS	250	—	550/24	4/0	4/0	—	—	—	1/2	2 15/32	1 1/8	1 1/4	3/16	1/2	Yellow	62
54114262BS	300	300	650/24	250	250	250	250	—	1/2	2 15/32	1 1/8	1 1/4	3/16	1/2	White	66
5411440BS	300	300	—	250	250	4/0	4/0	4/0	1/2	2 3/8	1 1/8	1 1/4	3/16	1/2	White	66
54115260BS	350	350	650/24	—	—	250	250	250	1/2	2 5/8	1 3/8	1 3/8	1 3/64	9/16	White	66
54185313BS	400	400	775/24	300	300	300	300	300	5/8	3 7/8	1 11/16	1 13/32	7/32	1 9/16	Blue	76
58177350BS	500	—	925/24	400	400	400	350	350	5/8	3	1 5/16	1 5/8	1/4	1 3/16	N/A	80
58180444BS	600	—	1100/24	—	—	450	450	450	5/8	3 3/8	1 11/16	1 25/32	1 1/64	1 9/16	Green	94
54122535BS	700	—	1325/24	500	500	500	500	500	5/8	3 5/8	1 11/16	1 25/32	9/32	1 9/16	Pink	99
54123600BS	750	—	—	600	—	—	—	550	5/8	3 3/8	1 11/16	1 15/16	5/16	1 9/16	Black	106
54124800BS	800	800	—	—	—	—	600	—	5/8	3 13/16	1 11/16	2	5/16	5/8	Orange	107
54126777BS	900	—	1925/24	—	—	—	—	—	5/8	4 1/8	1 13/16	2 3/16	1 1/32	7/8	Yellow	115

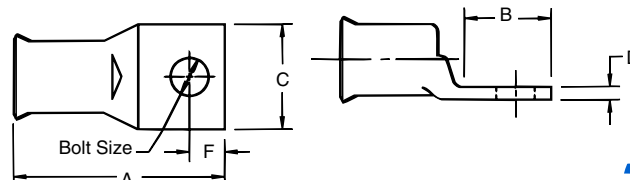
Existing Cat. Nos.	Existing Connectors Are UL486A Listed For:			New Series** (Same Tubing As Existing Cat. Nos.)	Class G	Class H	Class I	Class K	Class M	Code
	Code	Navy	Flex							
54104	8	23	37/24	541048BS	8	8	—	8	8	—
54105	6	30	61/24	541056BS	5	5	5	5	5	—
54106	4	40-50	91/24	541065BS	5	5	5	5	5	—
54139	4	40-50	91/24	541394BS	4	4	4	4	4	3
54142	2	60	125/24	541423BS	3	3	3	3	3	—
54147	1	75	150, 175/24	541472BS	2	2	2	2	2	—
54153	1/0	100	225/24	541531BS	1	1	1	1	1	—
54110	2/0	125	275/24	5411010BS	1/0	1/0	1/0	1/0	1/0	—
54165	3/0	150	325/24	5416520BS	2/0	2/0	2/0	2/0	2/0	—
54170	4/0	200	450/24	5417030BS	3/0	3/0	3/0	3/0	3/0	—
58165	—	—	550/24	5816540BS	4/0	4/0	—	—	—	250
54114	300	300	—	5411440BS	250	250	4/0	4/0	4/0	—
54115	350	350	650/24	54115260BS	—	—	250	250	250	—
54185	400	400	775/24	54185313BS	300	300	300	300	300	—
58177	—	—	925/24	58177350BS	400	400	400	350	350	500
58180*	—	—	1100/24	58180444BS	—	—	450	450	450	600
54122	700	—	1325/24	54122535BS	500	500	500	500	500	—
54123	750	—	—	54123560BS	600	—	—	—	550	—
54124	800	800	—	54124620BS	—	—	—	—	600	—
54126	900	—	1925/24	54126777BS	—	—	—	—	—	—

* = Cat 58180 is made of the same tubing as cat. 54120. Cat. 54120 is listed for 600 mcm.

** = To be installed with the same installing tools as the existing line of connectors.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed® Connectors for Copper Conductor

Long Barrel – Belled End Lugs



E

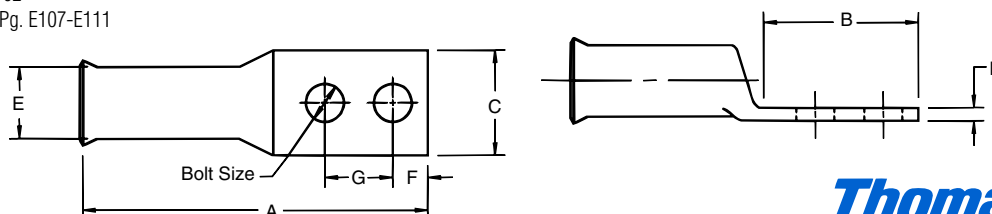
Color-Keyed®

Bell Shaped Copper Lugs with Two Bolt Holes

Cat. No.	Wire Size*			Class G	Class H	Class I	Class K	Class M	Bolt Size (in.)	Dimensions (in.)							Die Color	Die Code
	Code	Navy	Flex							A	B	C	D	E	F	G		
54850BE8BS	8	23	8	8	8	—	8	—	¼	2.19	1.88	.42	.07	.26	.25	.63	Red	21
54851BE8BS	8	23	8	8	8	—	8	—	¼	2.31	1.29	.47	.06	.26	.25	.75	Red	21
256-1157-8BS	8	23	8	8	8	—	8	—	¾	3.00	2.10	.56	.06	.26	.38	1.00	Red	21
256-1158-6BS	6	30	6	5	5	5	5	—	¾	2.93	1.93	.59	.06	.30	.38	1.00	Blue	24
54852BE6BS	6	30	6	5	5	5	5	—	¼	2.28	1.28	.44	.08	.30	.25	.63	Blue	24
256-1225-6BS	6	30	6	5	5	5	5	—	¼	2.43	1.43	.43	.07	.30	.25	.75	Blue	24
54854BE5BS	4-3	40-50	5	5	5	5	5	—	¼	2.31	1.19	.52	.10	.37	.25	.63	Grey	29
256-1246-5BS	4-3	40-50	5	5	5	5	5	—	¼	2.31	1.31	.56	.09	.37	.25	.75	Grey	29
256-1159-5BS	4-3	40-50	5	5	5	5	5	—	¾	3.13	1.98	.59	.09	.37	.38	1.00	Grey	29
256-1300-3BS	2	60	3	3	3	3	3	3	¼	2.63	1.35	.68	.11	.41	.25	.75	Brown	33
54855BE3BS	2	60	3	3	3	3	3	3	¼	2.43	1.28	.59	.11	.41	.25	.63	Brown	33
54856BE3BS	2	60	3	3	3	3	3	3	¾	2.78	1.63	.59	.11	.41	.38	.75	Brown	33
256-1160-3BS	2	60	3	3	3	3	3	3	¾	3.08	1.94	.59	.11	.41	.38	1.00	Brown	33
54811BE3BS	2	60	3	3	3	3	3	3	½	4.28	3.00	.88	.09	.41	.50	1.75	Brown	33
54809BE2BS	1	75	2	2	2	2	2	2	¼	2.88	1.19	.67	.11	.47	.25	.63	Green	37
54812BE2BS	1	75	2	2	2	2	2	2	¼	2.75	1.40	.67	.11	.47	.25	.75	Green	37
54858BE2BS	1	75	2	2	2	2	2	2	¾	2.97	1.63	.67	.11	.47	.38	.88	Green	37
54857BE2BS	1	75	2	2	2	2	2	2	½	4.43	3.00	.88	.10	.47	.50	1.75	Green	37
54859BE1BS	1/0	100	1	1	1	1	1	1	¼	2.63	1.19	.75	.13	.52	.25	.63	Pink	42
54813BE1BS	1/0	100	1	1	1	1	1	1	¼	2.71	1.38	.75	.13	.52	.25	.75	Pink	42
54860BE1BS	1/0	100	1	1	1	1	1	1	¾	2.97	1.63	.75	.13	.52	.38	.88	Pink	42
256-1162-1BS	1/0	100	1	1	1	1	1	1	¾	3.23	1.93	.75	.13	.52	.38	1.00	Pink	42
5414BE10BS	2/0	125	1/0	1/0	1/0	1/0	1/0	1/0	¼	2.62	1.25	.83	.13	.57	.25	.63	Black	45
256-1299-10BS	2/0	125	1/0	1/0	1/0	1/0	1/0	1/0	¼	2.69	1.31	.81	.13	.57	.25	.75	Black	45
256-1116-10BS	2/0	125	1/0	1/0	1/0	1/0	1/0	1/0	¾	3.19	1.81	.83	.13	.57	.38	1.00	Black	45
54862BE10BS	2/0	125	1/0	1/0	1/0	1/0	1/0	1/0	½	4.20	2.81	.83	.13	.57	.50	1.75	Black	45
54815BE20BS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	¼	2.89	1.45	.92	.13	.63	.25	.75	Orange	50
54816BE20BS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	¾	3.25	1.63	.92	.13	.63	.38	1.00	Orange	50
54864BE20BS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	½	4.45	3.00	.92	.13	.63	.50	1.75	Orange	50
54817BE30BS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	¼	3.15	1.38	1.03	.14	.70	.50	.75	Purple	54
256-1117-30BS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	¾	3.35	1.81	1.03	.14	.70	.25	1.00	Purple	54
54818BE30BS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	¾	4.38	2.63	1.03	.14	.70	.38	1.75	Purple	54
54866BE30BS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	½	4.70	3.00	1.03	.14	.70	.50	1.75	Purple	54
256-1245-40BS	250	—	4/0	4/0	4/0	4/0	4/0	4/0	¾	3.83	1.93	1.13	.14	.77	.50	1.00	Yellow	62
54868BE40BS	250	—	4/0	4/0	4/0	4/0	4/0	4/0	½	4.92	3.00	1.13	.14	.77	.50	1.75	Yellow	62
54819BE262BS	300	300	262 kcmil	250 kcmil	250	250	250	—	¾	5.04	2.80	1.25	.15	.85	.50	1.00	White	66
54870BE262BS	300	300	262 kcmil	250 kcmil	250	250	250	—	½	5.23	3.00	1.25	.15	.85	.50	1.75	White	66
54822BE313BS	400	400	313 kcmil	300 kcmil	300	300	300	—	¼	4.38	1.93	1.41	.17	.96	.63	.75	Blue	76
54821BE313BS	400	400	313 kcmil	300 kcmil	300	300	300	—	¾	4.43	1.93	1.41	.17	.96	.63	1.00	Blue	76
54874BE313BS	400	400	313 kcmil	300 kcmil	300	300	300	—	½	5.51	3.00	1.41	.17	.96	.63	1.75	Blue	76
54823BE373BS	500	—	373 kcmil	400 kcmil	400	400	350	—	¼	4.93	1.94	1.61	.22	1.10	.50	.75	Brown	87
256-1119-373BS	500	—	373 kcmil	400 kcmil	400	400	350	—	¾	5.00	1.93	1.61	.22	1.10	.50	1.00	Brown	87
54876BE373BS	500	—	373 kcmil	400 kcmil	400	400	350	—	½	6.00	3.00	1.61	.22	1.10	.50	1.75	Brown	87
54824BE444BS	—	—	444 kcmil	—	—	450	450	—	¾	5.70	2.80	1.75	.24	1.20	.63	1.00	Green	94
54878BE444BS	—	—	444 kcmil	—	—	450	450	—	½	5.83	3.00	1.75	.24	1.20	.63	1.75	Green	94
54880BE535BS	700	—	535 kcmil	500 kcmil	500	500	500	—	½	6.20	3.00	1.94	.27	1.33	.63	1.75	Black	106
58826BE777BS	900	—	777 kcmil	—	—	—	—	—	¾	6.49	2.80	2.27	.30	1.50	.63	1.00	Yellow	115

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor

Two Barrel Lugs 600V to 35KV Applications

Material: High Conductivity Wrought Copper
Finish: Electro Tin Plate



T&B Cat. No.	Wire Size		Hole Size (in.)	Fig. No.	Dimensions (in.)			Die Code	Color Key
	Code	Flex			A	W	T		
256-30695-828	6	61/24	1/4	1	2 15/16	7/16	1/16	24	Blue
256-30695-1227	6	61/24	1/4	2	3 3/8	7/16	1/16	24	Blue

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

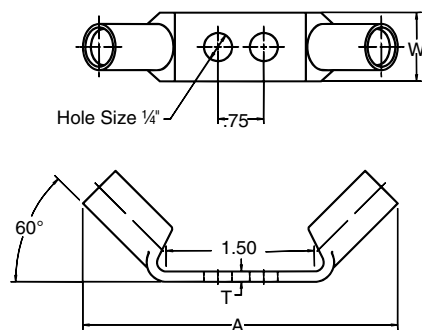


Figure 1

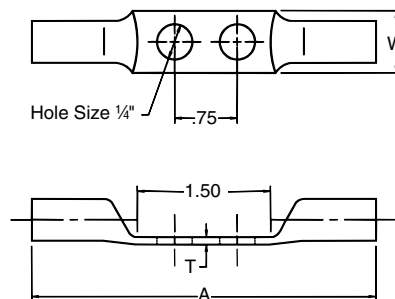


Figure 2

E

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Color-Keyed® Connectors for Copper Conductor



E

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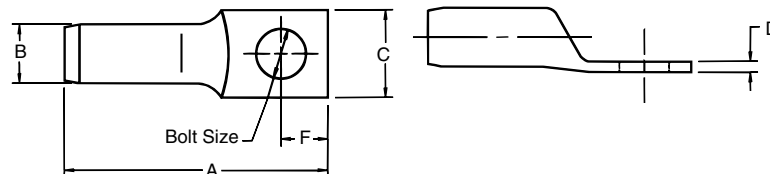
These Color-Keyed® Connectors are recommended for up to 15 KV application. Installed with standard T&B Cat. No., TBM15I, 13100A TBM14M hydraulic compression tools with special rounding dies. The compression forms the connector and conductor into a solid mass to provide an optimum electrical bond between connector and conductor. The rounding die overlapped compressions provide a smooth round surface. This combined with the tapered barrel ends addresses the controlling of potentially damaging electrical stresses of high voltages.

Copper One Hole Lugs for 600V to 35KV Application

									Installing Tools			
Cable Size†										13100A, TBM15I* & TBM14M		
Cat. No.		Stud Size (in.)	Dimensions (in.)						Die Set Cat. No.	Color Code	Strip Length (in.)	
			A	B	C	D	E	F				
54440	#4 AWG	3⁄8	2.08	.81	.58	.08	3⁄8	1⁄2	15CA29R	Gray	1 7⁄16	
54443	#2 AWG	3⁄8	2.25	.81	.66	.09	3⁄8	1⁄2	15CA33R	Brown	1 7⁄16	
54448	#1 AWG	3⁄8	2.36	.81	.69	.10	3⁄8	1⁄2	15CA37R	Green	1 9⁄32	
54409	1/0 AWG	3⁄8	2.38	.81	.75	.12	3⁄8	1⁄2	15CA42R	Pink	1 5⁄8	
54460	2/0 AWG	1⁄2	2.73	1.06	.83	.12	1⁄2	1⁄2	15CA45R	Black	1 5⁄8	
54465	3/0 AWG	1⁄2	2.81	1.06	.94	.12	1⁄2	1⁄2	15CA49R	Orange	1 3⁄4	
54470	4/0 AWG	1⁄2	2.78	1.06	1.00	.13	1⁄2	1⁄2	15CA54R	Purple	1 13⁄16	
54413	250 kcmil	1⁄2	3.19	1.06	1.07	.14	1⁄2	1⁄2	15CA60R	Ruby	2 1⁄32	

† Cable size: Concentric and compact strandings
* Cat. No. TB15500 Die Adaptor required for TBM15I

Tooling: Pg. E78-E102
Die Selector Chart: Pg. E107-E111

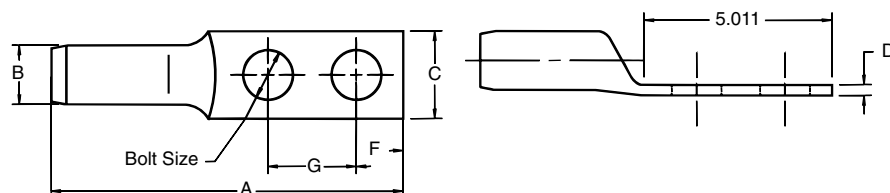


Copper 2 Hole Lugs for 600V to 35KV Application

										Installing Tools		
Cable Size [†]			Dimensions (in.)							13100A, TBM151* & TBM14M		
Cat. No.		Stud Size	A	B	C	D	E	F	G	Die Set Cat. No.	Color Code	Strip Length
54475	1/0 AWG	3⁄8	3.56	1 ¹ / ₃₂	.77	.12	3⁄8	3⁄8	1.00	15CA42R	Pink	1 ⁵ / ₈
54476	2/0 AWG	1⁄2	4.67	9⁄16	.83	.12	1⁄2	1⁄2	1.75	15CA45R	Black	1 ⁵ / ₈
54478	3/0 AWG	1⁄2	4.75	5⁄8	.94	.12	1⁄2	1⁄2	1.75	15CA49R	Orange	1 ³ / ₄
54479	4/0 AWG	1⁄2	4.64	1 ¹ / ₁₆	1.00	.13	1⁄2	1⁄2	1.75	15CA54R	Purple	1 ¹³ / ₁₆
54480	250 kcmil	1⁄2	5.17	3⁄4	1.08	.14	1⁄2	1⁄2	1.75	15CA60R	Ruby	2 ¹ / ₃₂
54481	300 kcmil	1⁄2	5.16	1 ³ / ₁₆	1.19	.16	1⁄2	1⁄2	1.75	15CA66R	White	2 ³ / ₃₂
54482	350 kcmil	1⁄2	5.35	7⁄8	1.29	.19	1⁄2	1⁄2	1.75	15CA71R	Red	2 ¹³ / ₃₂
54483	400 kcmil	1⁄2	5.35	5 ⁹ / ₆₄	1.36	.18	1⁄2	1⁄2	1.75	15CA76R	Blue	2 ¹³ / ₃₂
54484	500 kcmil	1⁄2	5.60	1 ¹ / ₁₆	1.54	.23	1⁄2	1⁄2	1.75	15CA87R	Brown	2 ¹³ / ₃₂
54485	600 kcmil	1⁄2	5.83	1 ¹¹ / ₆₄	1.70	.24	1⁄2	1⁄2	1.75	15CA94R	Green	2 ⁹ / ₁₆
54487	750 kcmil	1⁄2	6.13	1 ¹⁹ / ₆₄	1.89	.27	1⁄2	1⁄2	1.75	15CA106R	Black	2 ³ / ₄
54490	1000 kcmil	1⁄2	6.60	1 ¹ / ₂	2.18	.31	1⁄2	1⁄2	1.75	• 15C125R	—	2 ²⁹ / ₃₂

• No adaptor required – TBM15I only.
† Cable size: Concentric and compact strandings
TBM14M and 13100A UL Listing limited to 1/0 AWG 500 kcmil cable sizes.
* Cat. No. TB15500 Die Adaptor required for TBM15I

Tooling: Pg. E78-E102
Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Connectors for Copper Conductor



Copper Two-Way Splicers for up to 600V to 35KV Application

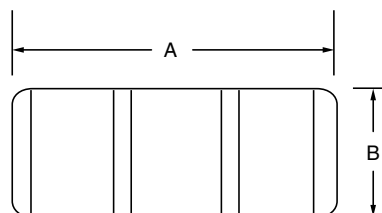
Cat. No.	Cable+ Size	Dimensions (in.)		Installing Tools		
				13100A, TBM15I* & TBM14M		
		A	B	Die Set Cat. No.	Color Code	Strip Length (in.)
54006	#4 AWG	2.00	.37	15CA29R	Gray	1½
54007	#2 AWG	2.13	.41	15CA33R	Brown	1⅝
54008	#1 AWG	2.25	.47	15CA37R	Green	1⅞
54009	1/0 AWG	2.38	.52	15CA42R	Pink	1¾
54010	2/0 AWG	2.38	.57	15CA45R	Black	1¾
54011	3/0 AWG	2.63	.63	15CA49R	Orange	1⅞
54012	4/0 AWG	2.69	.69	15CA54R	Purple	1⅞
54013	250 kcmil	3.19	.74	15CA60R	Ruby	2⅛
54015	350 kcmil	4.13	.89	15CA71R	Red	2⅝
54018	500 kcmil	4.13	1.06	15CA87R	Brown	2⅝
54023	750 kcmil	4.75	1.30	15CA106R	Black	2⅞

* Cat. No. 15500-TB Die Adaptor required for TBM15I

+ Cable Size: Concentric and Compact strandings

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



E

Color-Keyed®

Color-Keyed®**Cast Copper Connectors for Copper Conductor****E****Color-Keyed®**

Material – Cast Copper
Finish – Electro-Tin Plated

Cast Copper One Hole Lugs 600V to 35KV Applications – Heavy Duty

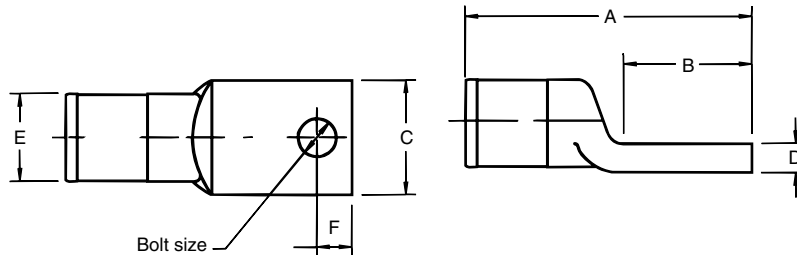
Cat. No.	Cable Size	Dimensions (in.)					Bolt Size (in.)	Die Code
		A	B	C	D	F		
53104	8	1 7/16	3/4	1/2	1/8	9/32	#10	29
53105	6	1 7/16	3/4	1/2	1/8	9/32	1/4	29
53106	4	1 7/16	3/4	1/2	1/8	9/32	1/4	29
53107	2	2	1	3/4	1/4	7/16	1/4	45
53108	1	2	1	3/4	1/4	7/16	1/4	45
53109	1/0	2	1	3/4	1/4	7/16	3/8	45
53161**	325/24	2 3/16	3/4	1 3/16	7/32	7/16	3/8	54
53110	2/0	2 5/8	1 1/4	1	9/32	1 7/32	3/8	66
53111	3/0	2 5/8	1 1/4	1	9/32	1 7/32	3/8	66
53112	4/0	2 5/8	1 1/4	1	9/32	1 7/32	3/8	66
53165**	650/24	3 1/16	1 3/8	1 3/16	5/16	3/4	1/2	76
53113	250 kcmil	3 1/16	1 1/2	1 3/16	5/16	3/4	1/2	76
53114	300 kcmil	3 1/16	1 1/2	1 3/16	5/16	3/4	1/2	76
53115	350 kcmil	3 13/16	2	1 3/8	3/8	13/16	1/2	99
53116	400 kcmil	3 13/16	2	1 3/8	3/8	13/16	1/2	99
53118	500 kcmil	3 13/16	2	1 3/8	3/8	13/16	1/2	99
53168**	1100/24	3 3/16	1 5/8	1 5/8	1 3/32	7/8	1/2	107
53169**	1325/24	3 5/16	1 5/8	1 5/8	1 3/32	7/8	1/2	107
53123	750 kcmil	4 3/16	2 1/8	1 5/8	7/16	1	1/2	112
53173**	2750/24*	5 1/16	1 7/8	2 1/8	9/16	1 3/16	1/2	150

All other Cat No: Use hydraulic tools with hex dies.

** No U.L./CSA

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

**Thomas & Betts**

Color-Keyed®

Cast Copper Connectors for Copper Conductor

Material – Cast Copper
Finish – Electro-Tin Plated



Two Hole Lugs for Code Copper Cable 600V to 35KV

Lug Cat. No.	Code Cable Size	Bolt G Size (in.)	Inches								Die Code	No. of Crimps		
			A Approx. (in.)	B	C	D	E	F	H	12 Ton		15 Ton	40 Ton	
256-30695-1055	#14-10	¼	2	1⅞	½	⅛	¾	¼	⅝ - ¾	29	1	1	1	
53204	#8	¼	2	1⅞	½	⅜	¾	¼	⅝	29	1	1	1	
53205	#8	¼	2	1⅞	½	⅛	¾	¼	⅝	29	1	1	1	
53206	#4	¼	2	1⅞	½	⅛	¾	¼	⅝	29	1	1	1	
53207	#2	¼	3	2	¾	⅛*	19/32	½	¾	45	1	1	1	
53208	#1	¼	3	2	¾	¼	19/32	½	1	45	1	1	1	
53209	1/0	¾	3	2	¾	¼	19/32	½	1	45	1	1	1	
53210	2/0	¾	4⅞	3	1	¾*	27/32	⅝	1¾	66	1	1	1	
53211	3/0	½	4⅞	3	1	¾	27/32	⅝	1¾	66	1	1	1	
53212	4/0	½	4⅞	3	1	¾	27/32	⅝	1¾	66	1	1	1	
53213	250 kcmil	½	4⅞	3	1⅞	¾*	15/16	⅝	1¾	76	1	1	1	
53214	300 kcmil	½	4⅞	3	1⅞	¾	15/16	⅝	1¾	76	1	1	1	
53215	350 kcmil	½	5⅞	3½	1⅞	1¼*	17/32	⅝	1¾	99	2	1	1	
53216	400 kcmil	½	5⅞	3½	1⅞	¾	17/32	⅝	1¾	99	2	1	1	
53218	500 kcmil	½	5⅞	3½	1⅞	¾	17/32	⅝	1¾	99	2	1	1	
53220M	600 kcmil	½	5⅞	3½	1⅞	17/32	123/64	⅝	1¾	112	2	1	1	
53222M	700 kcmil	½	5⅞	3½	1⅞	±1/32	123/64	⅝	1¾	112	2	1	1	
53223M	750 kcmil	½	5⅞	3½	1⅞	±1/32	123/64	⅝	1¾	112	2	1	1	
53269	1325/24	½	5½	3½	1⅞	13/32	1⅞	⅝	1¾	107	2	1	1	
53224	800 kcmil	½	6	3½	1⅞	⅝*	1⅞	⅝	1¾	130	—	1	1	
53226	900 kcmil	½	6	3½	1⅞	15/32	1⅞	⅝	1¾	130	—	1	1	
53228	1000 kcmil	½	6	3½	1⅞	15/32	1⅞	⅝	1¾	130	—	1	1	
53233	1500 kcmil	½	6¼	3½	2¼	½*	129/32	⅝	1¾	150	—	1	1	
53233L	1500 kcmil	½	7⅞	3⅞	2	½	1⅞	⅝	1¾	150	—	1		
53432L**	1500 kcmil	½	7⅞	3⅞	3	½	1⅞	⅝	1¾	150	—	1		
251-30485-1211	1750 kcmil	—	6¾	3⅞	3	½	2¾	—	—	175	—	—	2 (Fig. 2)	
251-30485-1212	1750 kcmil	—	6¾	3⅞	2¼	½	2¾	—	—	175	—	—	2 (Fig. 1)	
53239	2000 kcmil	½	6¾	3½	2¾	½	2¾	⅝	1¾	175	—	—		
53239L	169/110 178/104 2000 kcmil	½	7⅞	3⅞	2¼	½	2¾	⅝	1¾	175	—	—		
53439L**	169/110 178/104 2000 kcmil	½	7⅞	3⅞	3	½	2¾	⅝	1¾	175	—	—	11421 Die	

* Denotes tongue thickness of alternate construction. (Braze wrought copper tongue)

** Figure 2. All others Figure 1.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

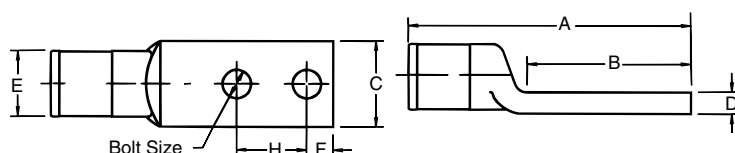


Figure 1

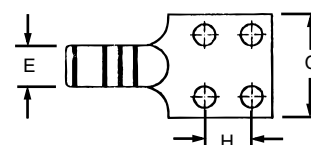


Figure 2

Thomas & Betts

Color-Keyed®**Cast Copper Connectors for Copper Conductor**

Satisfies requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.



Material – Cast Copper

Finish – Electro-Tin Plated

Color-Keyed®

Cast Copper Two Way Connector 600V – 35KV Applications – Heavy Duty

Cat. No.	Cable Size	Die Code
53504	8AWG	29
53505	6AWG	29
53506	4AWG	29
53507	2AWG	45
53508	1AWG	45
53509	1/0AWG	45
53510	2/0AWG	66
53511	3/0AWG	66
53512	4/0AWG	66
53513	250 kcmil	76
53515	350 kcmil	99
53518	500 kcmil	99
53523	750 kcmil	112

Use hydraulic tools with hex dies.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

Color-Keyed®

Flag Connectors for Copper Conductor



Eliminates sharp 90° cable bends inside enclosures. Narrow tongue fits into confined spaces such as circuit breakers, motor starters, etc. Angle area of lug is pre-insulated to facilitate barrel insulation after compression.

Material: Copper

Finish: Tin Plate

Insulation: PVC Dip Coated – 90°C rating

90° Flag Lugs – 600V Applications

T&B Cat. No.	CU Cable Size	Stud Size (in.)	Phase	Dimensions (in.)							Die Code
				A	B	C	D	E	F	G	
10-FT-14NTK	#1 Weld 1/0 225/24	¼	1	1.38							42
			2	2.13	.94	.64	.19	.62	.25	2.50	
			3	2.88							
20-FT-14NTK	1/0 Weld 2/0 275/24	¼	1	1.93							45
			2	2.93	1.14	.64	.22	.70	.25	2.50	
			3	3.93							
30-FT-14NTK	2/0 Weld 3/0 325/24	¼	1	2.11							50
			2	3.11	1.14	.78	.22	.77	.25	2.75	
			3	4.11							
40-FT-14NTK	3/0 Weld 4/0 450/24	¼	1	2.04							54
			2	3.04	1.14	.78	.25	.86	.25	3.13	
			3	4.04							
250-FT-14NTK	250 kcmil	¼	1	2.31							62
			2	3.44	1.20	.98	.25	.92	.31	3.00	
			3	4.57							
350-FT-12NTK	350 kcmil	½	1	2.31							71
			2	3.69	1.45	1.09	.31	1.09	.56	3.94	
			3	5.06							
500-FT-12NTK	500 kcmil	½	1	2.56							87
			2	4.06	1.45	1.20	.38	1.28	.56	4.19	
			3	5.69							
750-FT-58NTK	750 kcmil	5/8	1	2.63							106
			2	4.50	1.70	1.49	.38	1.50	.81	4.39	
			3	6.25							

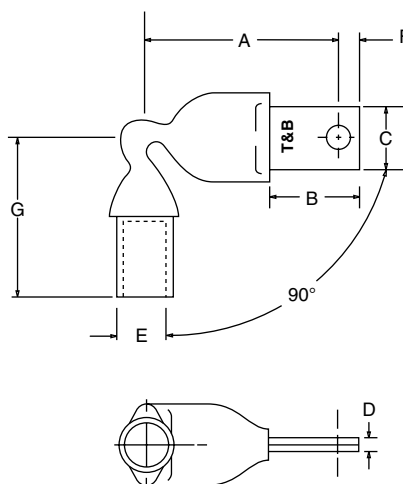
Notes:

1. Each Cat. No. consists of three connectors, (1) connector per phase.

Installation tools: Hand or hydraulic tools

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Flag Connectors for Aluminum Conductor



Color-Keyed®

Material: Aluminum
Finish: Tin Plate
Insulation: PVC dip coated

90° Flag Lugs – 600V, 90°C

T&B Cat. No.	CU Cable Size	Stud Size (in.)	Phase	Dimensions (in.)							Die Code
				A	B	C	D	E	F	G	
10A-FT-14NTK	1/0	¼	1	1.38							50
			2	2.13	.94	.64	.19	.62	.25	2.50	
			3	2.88							
20A-FT-14NTK	2/0	¼	1	1.93							54
			2	2.93	1.14	.64	.22	.70	.25	2.50	
			3	3.93							
30A-FT-14NTK	3/0	¼	1	2.11							60
			2	3.11	1.14	.78	.22	.77	.25	2.75	
			3	4.11							
40A-FT-14NTK	4/0	¼	1	2.04							66
			2	3.04	1.14	.78	.25	.86	.25	3.13	
			3	4.04							
250A-FT-14NTK	250 kcmil	¼	1	2.31							71
			2	3.44	1.20	.98	.25	.92	.31	3.00	
			3	4.57							
350A-FT-12NTK	350 kcmil	¼	1	2.31							87
			2	3.69	1.45	1.09	.31	1.09	.56	3.94	
			3	5.06							
500A-FT-12NTK	500 kcmil	¼	1	2.56							99
			2	4.06	1.45	1.20	.38	1.28	.56	4.19	
			3	5.69							
750A-FT-58NTK	750 kcmil	¼	1	2.63							115
			2	4.50	1.70	1.49	.38	1.50	.81	4.39	
			3	6.25							

* Each Cat. No. consists of three connectors, (1) connector per phase.

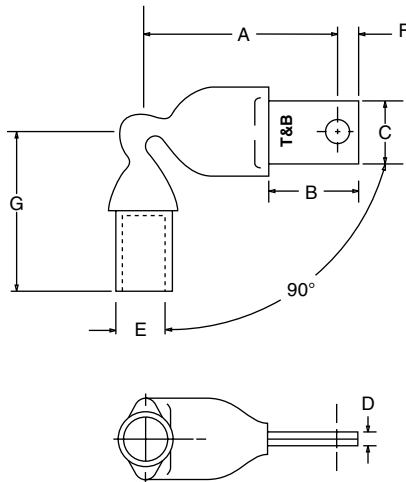
Connectors supplied with Thomas & Betts oxide inhibitor compound in wire bore.

Note: 1) Each Cat. No. consists of three connectors, (1) connector per phase.

Installation tooling: Hand or hydraulic tools.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

C-Tap Connectors for Copper Conductor

C-Taps 600V Applications

Material: High Conductivity Wrought Copper
Finish: Plain

These taps assure positive, all around compression with low resistance and high pullout values.

Made of high conductivity wrought copper, they contain heavy reinforcing ribs which locate the compression dies as well as strengthen the compressed joint. Ideal for pigtail, 2-way splicing, or tapping to an unbroken continuous main.



Cat. No.	Fig. No.	Dimensions (Inches)			Color Key
		L	H	E	
54705	1	5/16	5/16	7/64	Red
54710	1	9/16	7/16	9/64	Blue
54715	1	9/16	5/8	11/64	Gray
54720	2	1 5/32	1 1/16	7/32	Brown
54725	2	1 5/32	1 3/16	1/4	Green
54730	2	1 5/32	2 7/32	9/32	Pink
54735	3	1 11/16	7/8	2 1/64	Black
54740	3	1 11/16	3 1/32	2 3/64	Orange
54745	3	1 11/16	1 1/16	1 3/32	Purple
54750	3	1 11/16	1 3/16	1 5/32	Yellow

NOTES:

UL approved for direct burial.

For covers see page E50.

Taps can be supplied tin-plated. Add suffix - TP to any catalog number (i.e. 54725TP).

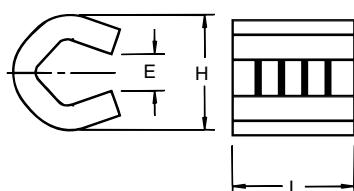


Figure 1

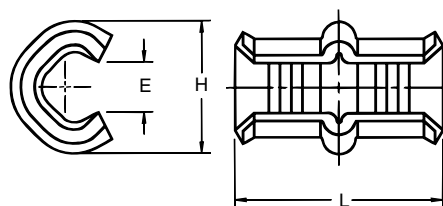


Figure 2

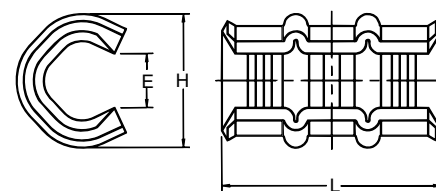


Figure 3

"E" represents gap in side.

Typical Cable Combinations

MAIN	Branch							
	#12 Sol or Str	#10 Sol or Str	#8 Sol or Str	#6 Sol or Str	#4 Str	#2 Str	#1 Str	1/0 Str
#10 Sol or Str	54705	54710	54715	54715	54720	54730	54735	54740
#8 Sol or Str	54710	54715	54715	54720	54720	54730	54735	54740
#6 Sol or Str	54715	54715	54720	54720	54725	54730	54735	54740
#4 Str	54720	54720	54720	54725	54730	54735	54740	54740
#2 Str	54730	54730	54730	54730	54735	54740	54745	54745
#1 Str	54735	54735	54735	54735	54740	54745	54745	54750
1/0 Str	54740	54740	54740	54740	54740	54745	54750	54750
2/0 Str	54745	54745	54745	54745	54745	54750	54750	
3/0 Str	54750	54750	54750	54750	54750	54750		

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®**C-Tap Connectors for Copper Conductor****C-Taps - Large Size 600V Applications****Material:** High Conductivity Wrought Copper**Finish:** Plain

The large "C" taps are color coded to match the proper die. Compared with other taps and split bolts, you will save on purchases, inventory, installation time, insulating and follow-up maintenance.

The compact connectors, when installed, are barely larger than the conductor insulation. Easy to work with in tight places.



Color-Keyed®

Cat. No.	Wire Size		Dimensions (In.)			Installing Die		Die Code	No. of Crimps	Color Key
	Main	Branch	C	D	E	Tool	Cat No.			
54755	#1	#1						76		
	1/0	1/0-#2				TBM14M	15512	76		
	2/0	2/0-#4	1 ¹⁵ / ₁₆	3/4	1 ⁷ / ₃₂	TBM15I	15512*	76	1	Blue
	3/0	1/0-#6				TBM12	TBM12D-4	76		
	4/0	#1-#8				13100A	15512	76		
54760	2/0	2/0-#1				TBM14M	15506	87H		
	3/0	3/0-#3				TBM15I	15506*	87H		
	4/0	4/0-#4	1 ⁷ / ₁₆	3/4	1 ¹⁹ / ₃₂	TBM12	TBM12D-3	87H	2	Brown
	250 kcmil	#1-#8				13100A	15506	87H		
54765	2/0	2/0-#1				TBM14M	15505	99H		
	3/0	3/0-#2				TBM15I	15505*	99H		
	4/0	4/0-#4	1 ¹¹ / ₁₆	1	4 ¹ / ₄	TBM12	TBM12D-2	99H	2	Pink
	250 kcmil	3/0-#6				13100A	15505	99H		
	300 kcmil	2/0-#8								
54770	4/0	4/0-2/0				TBM14M	15515	106H		
	250 kcmil	250-#1				TBM15I	15515*	106H		
	300 kcmil	4/0-#4	1 ¹¹ / ₁₆	1	1 ¹ / ₁₆	TBM12	TBM12D-2	106H	2	Black
	350 kcmil	3/0-#6				13100A	15515	106H		
54775**	250 kcmil	250kcmil				TBM14M	15504	115H		
	300 kcmil	300-3/0				TBM15I	15504*	115H		
	350 kcmil	350-1/0				TBM12	TBM12D-1	115H	2	Yellow
	400 kcmil	300-#2	1 ³ / ₈	1 ¹ / ₄	1 ³ / ₁₆	13100A	15504	115H		
	450 kcmil	250-#4								
	500 kcmil	250-#6								
54780	350 kcmil	350-4/0								
	400 kcmil	400-2/0	2 ³ / ₁₆	1 ¹ / ₄	5 ³ / ₆₄	TBM15I	15603	125H	2	N/A
	450 kcmil	450-#1								
	500 kcmil	500-#2								
54785	750 kcmil	4/0-#6	2 ¹ / ₈	2	1	TBM15I	15603	125H	3	N/A
54790	750 kcmil	750-4/0	2 ¹ / ₁₆	2	1 ⁵ / ₁₆	TBM15I	15603	125H	3	N/A

NOTES:

UL approved for direct burial.

For covers see page E50.

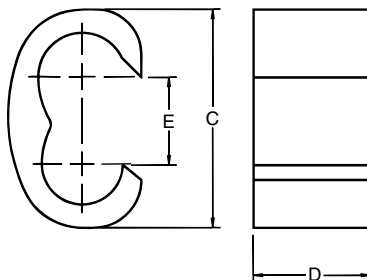
Taps can be supplied tin-plated. Add suffix - TP to any catalog number (i.e. 54725TP).

*Cat. No. 15500-TB adapter required if using TBM15I and 155XX series dies.

**#6 AWG branch must be doubled.

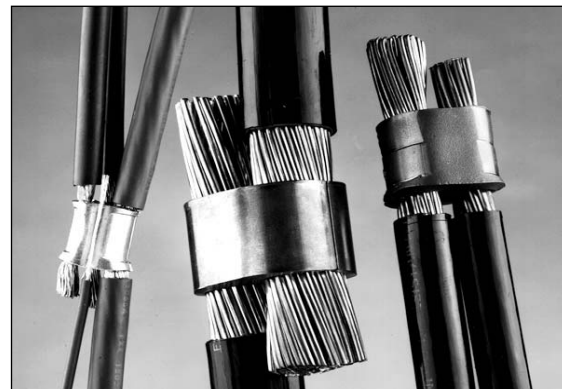
Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

**Thomas & Betts**

Color-Keyed®

Copper H-Tap Connectors for Copper Conductor



E

Color-Keyed®

Copper H-Taps – 600V Application

Cat. No.	Fig. No.	Color Code	Conductor Size Code (Flex Cable)				Crimping Information						Insulating Covers
			Main	Branch 1	Branch 2	Branch 3	Hydraulic Head	Installing Die	# of Crimps	Color Code	Die Code	Strip Length	
CHT750350-1F	1	White	(750-500) (750) Flex Only	(750-500) (350) Flex Only	—	—	TBM15I	15620CHF	1	White	F	1½"	HTC1000
CHT750350-2	2	Yellow	750-500 (550-500)	750-500 (550-350)	—	—	TBM15I	15620CH	1	Yellow	Z	1½"	HTC500
CHT75010-3	9	Yellow	750-350 (550-500)	4/0-1/0 (250-1/0)	1 Str. 2-6 AWG (1-8)	2-14 (2-14)	TBM15I	15620CH	1	Yellow	Z	1½"	
CHT50040-4	2	Brown	500-250 (350-4/0)	500-4/0 (350-4/0)	—	—	TBM15I	15612CH	2	Brown	N	1½"	
CHT50010-5	3	Brown	500-4/0 (350-4/0)	250-1/0 (4/0-1/0)	1 Str. 2-6 AWG (1-8)	8-14 (8-14)	TBM15I	15612CH	2	Brown	N	1½"	
CHT2502-6	2	Purple	250-2 (4/0-2)	250-2 (4/0-2)	—	—	•TBM15I TBM14M	15CA80RCH	1	Purple	80R	1¾"	HTC40
CHT25014-7	4	Purple	250-2 (4/0-2)	2-6 Str/Sol (2-8)	8-14 (8-14)	—	•TBM15I TBM14M	15CA80RCH	1	Purple	80R	1½"	
CHT250214-8	5	Purple	250-2 (4/0-2)	8-14 (8-14)	8-14 (8-14)	—	•TBM15I TBM14M	15CA80RCH	1	Purple	80R	1½"	
CHT214-9	6	Brown	2-6 Str/Sol (2-8)	2-6 Str/Sol (2-8)	8-14 (8-14)	8-14 (8-14)	•TBM15I TBM14M 13100A	15CA71RCH	1	Brown	71R	7/8"	
CHT814-10	7	Green	8-14 (8-14)	8-14 (8-14)	—	—	•TBM15I TBM14M 13100A	15CA37RCH	1	Green	37R	½"	HTC2S
CHT75040-11	8	Yellow	750 Str. (750-500)	350-4/0 Str. Cu. & Flex	—	—	TBM15I	15620CH	1	Yellow	Z	1½"	HTC500

• Requires adapter Cat. No. 15500-TB when used with hydraulic head TBM15I.

Material: Copper per ASTM designation

B-124-55 Alloy 12

Available packaged with HTC series covers Add **-WC** to standard catalog number.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®

Copper H-Tap Connectors for Copper Conductor

Copper H-Taps (continued)

Material: High Conductivity Extruded Copper

Finish: Electro Tin Plate

Color-Keyed®

E

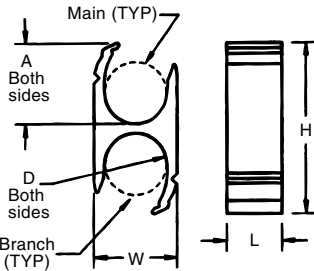


Figure 1

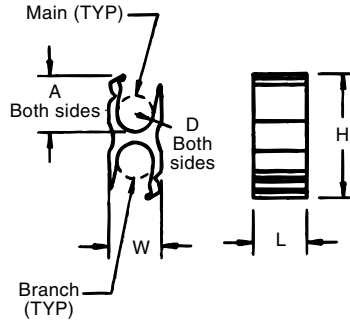


Figure 2

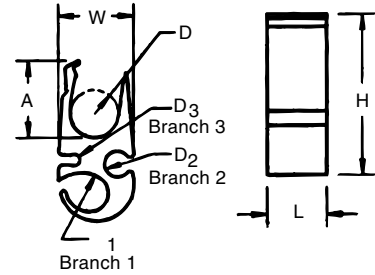


Figure 3

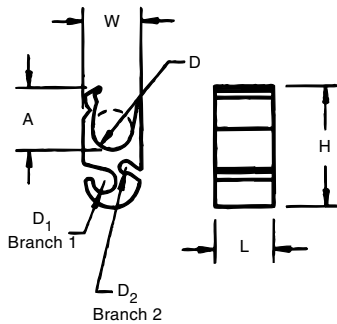


Figure 4

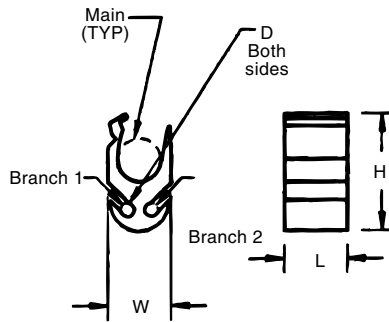


Figure 5

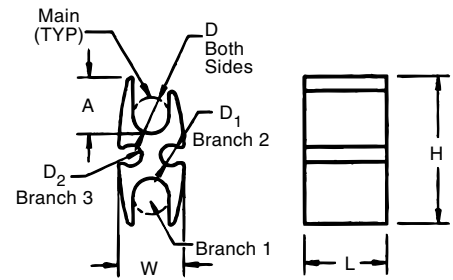


Figure 6

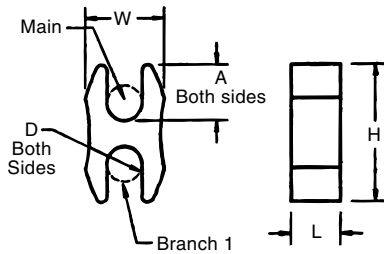


Figure 7

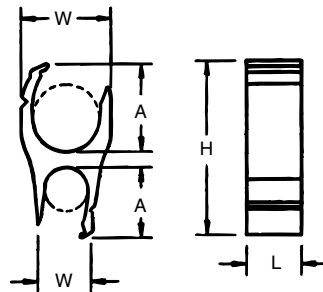


Figure 8

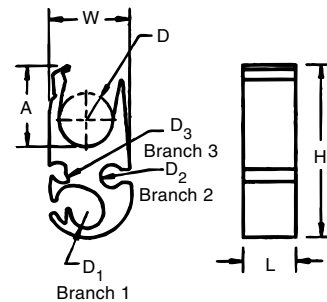


Figure 9



T&B Cat. No.	Fig. No.	Dimensions (in.)								Strip Length (in.)	Insulating Covers
		H	W	L	A	D	D1	D2	D3		
CHT750350-1F	1	3.46	1.66	1.10	1.73	1.23	—	—	—	1½	HTC1000
CHT750350-2	2	3.24	1.50	1.25	1.62	1.02	—	—	—	1¾	HTC500
CHT75010-3	9	3.13	1.50	1.00	1.54	1.00	.40	0.35	0.41	1½	
CHT75040-11	8	3.19	(1) 1.65 (2) 1.05	1.00	(1) 1.61 (2) 1.29	(1) 1.24 (2) .80	—	—	—	1½	
CHT50040-4	2	2.64	1.18	1.00	1.32	.80	—	—	—	1½	
CHT50010-5	3	2.28	1.30	1.00	1.20	.80	.67	.19	0.43	1½	HTC40
CHT2502-6	2	1.99	0.90	0.66	1.00	0.62	—	—	—	1¾	
CHT25014-7	4	1.63	.90	.90	.96	.52	0.35	0.19	—	1½	
CHT250214-8	5	1.63	.90	.90	.96	0.62	0.19	0.19	—	1½	
CHT214-9	6	1.35	.60	0.75	0.50	0.33	0.19	0.19	—	¾	HTC2S
CHT814-10	7	.62	0.60	0.37	0.25	0.16	—	—	—	½	

Thomas & Betts

Color-Keyed®**Aluminum H-Tap Connectors for Aluminum/Copper Code Conductor (Up to 600V)**

H-type compression taps for combinations of aluminum to aluminum, aluminum to copper, and copper to copper stranded conductors with exclusive FILLERLOK tab design. Concentric and compact code strandings.

Material – High Conductivity Wrought Aluminum.

**Compression Taps for 600V, 90°C Applications**

Cat. No.	Combinations			Length (in.)	Color Key	Die Code Cat. No.			
	Main	Branch	Side Tap			TBM6-TBM6S TBM60RS	Hydraulic TBM14M 13100A	TBM12 12-Ton Head	TBM15I 15-Ton Head
63105†	2-6	8-14	—	¾	Orange	13474 upper 13477 lower	15530	TBM12D-4	15530*
63110	4-6	4-6	—	1½	Green	13470	15501A	TBM12D-H	15001A*
63118	2/0-2	8-14	—	¾	Green	13470	15501A	TBM12D-H	15501A*
63125	2/0-2	1/0-6	—	1½	Green	13470	15501A	TBM12D-H	15501A*
63140	4/0-2/0	2-10	—	1½	Blue	13471	15502	TBM12D-H	15502*
63148•	4/0-2/0	3/0-1	8-14	3	Blue	—	15502	TBM12D-H	15502
63160	500-4/0	4/0-2	2-6	2¾	Red	—	—	—	15612
63169	750-4/0	750-4/0	—	3	Black	—	—	—	15620
63170	1000-500	1000-1/0	—	6	Black	—	—	—	15620
63180	750-350	350-1/0	1-6	3	Black	—	—	—	15620

* Use with adaptor Cat. No. 15500-TB

† 63105 also installed by TBM5/TBM5S with 13455 die or TBM8/TBM8S with 13462 die.

• 63148 – #1 CU or AL – wire bent double (hairpin)

For Smart Tool Installation

63110, 63118, 63125 Use TBM8-750HG
63140, 63148 Use TBM8-750BH

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

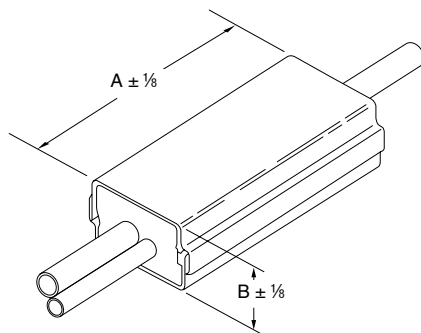
E**Color-Keyed®**

Color-Keyed®

Insulating Covers for H-Taps and C-Taps



Color-Keyed®



These new insulating covers provide hard shell insulated protection for "H" type compression taps and splices, and, because there is no taping required, you get uniform quality and appearance each time. The exclusive locking design provides the range taking capability. Only five H-tap insulating catalog cover numbers accommodate the range of 6 AWG – 1000 kcmil in the main, and 12 AWG – 500 kcmil in the branch.

H-Tap Insulating Covers (Hard Covers)

Cat. No.	A (Lgth)	Dimensions (in.)	
		B (Thick)	C (Width)
HTC2S	2"	1 1/8"	1 7/16"
HTC2	3 1/2"	1 1/8"	1 7/16"
HTC40	4 1/4"	1 9/16"	2"
HTC40L2	5 3/4"	1 9/16"	2"
HTC500	6"	1 3/4"	2 3/4"
HTC1000	7"	2 3/8"	3 3/8"
HTC1000L	10"	2 3/8"	3 7/8"

Interlocking insulating covers for "H" type compression taps. For use in splice boxes, indoors, or in tray indoors. Place the H-Tap in the cover. Snap the cover closed. Consult Factory for flame-retardant version.

Technical Data

HTC2 and HTC2S use insulation wrap instead of end cushions for inner seal.

Connector Cat. Nos. 54755 through 54790 and 63148 through 63180 require hydraulic crimping tools. Refer to instruction sheets.

Outer Hard Shell Covers — High Impact Black Thermoplastic (Noryl) Flammability Class, U.L. 94V-1

Inner seal — Black neoprene sponge soft closed cell, oxygen index 28% U.L. 94 HBF

Temperature Rating — 90 °C Maximum

Voltage Rating — 600 Volts maximum

Uses insulation wrap instead of end cushions for inner seal.

Note: insulation covers are not reusable.

For H-Tap Applications

Cover Cat. No.	AL H-Tap	CU H-Tap
HTC2	63105	
HTC2S		CHT814-10
HTC40	63110	CHT214-9
	63118	CHT250214-8
	63125	CHT2514-7
	63140	CHT2502-6
HTC500	63148	CHT50010-5/CHT50040-4
	63160	CHT75010-3/CHT750350-2
	63170	
HTC1000L	63170	
HTC1000	63180/63169	CHT750350-1F

For C-Tap Applications

Cover Cat. No.	C-Tap	Color Code
HTC40	54720	Brown
	54725	Green
	54730	Pink
	54755	Blue
	54760	Brown
HTC40L2	54735	Black
	54740	Orange
	54745	Purple
	54750	Yellow
HTC500	54765	Pink
	54770	Black
	54775	Yellow
	54780	White
	54785	—
HTC1000	54790	—

- Hard shell outer covers guard against impact ... inner seal keeps out dust.
- Installs quickly and easily without special tools simply snaps together.
- Eliminates time consuming taping.
- Provides high quality, neat, uniform installations.
- Range taking design reduces inventory.

Thomas & Betts

Color-Keyed®**Insulating Covers for H-Taps and C-Taps**

Easily and quickly insulates on H type compression taps. Eliminates taping. Provided with three positive locking latches and overlapping fringe for maximum cable insulation.

H-Tap Insulating Covers (Soft Cover)

Cat. No.	Wire Range		Installs on "H" Tap Cat. No.
	Min.	Max.	
HT20C	6	2/0	63110 & 63125
HT40C	6	4/0	63140 & 63148
HT600C	2	500 MCM	63160 & 63169
HT1000C	1/0	750 MCM	63180
HT1000C-L	1/0	1000 MCM	63170

Technical Data

Rating: 90°C, 600V. Made of flame retardant, high impact polypropylene.

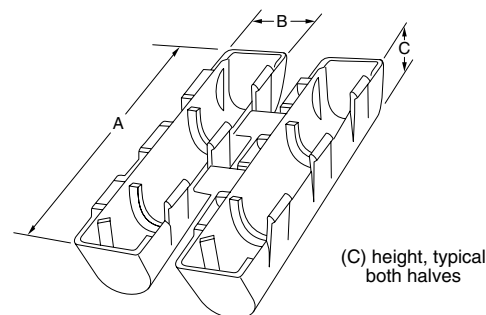
Material: Polypropylene

Color: Black

Voltage Rating 600V max.

Temperature: 90°C

Cat. No.	Wire Range		Use to Insulate AL H-Taps	Dimensions (In.)			"A" Dim.	"B" Dim.
	Max.	Min.		A	B	C		
HT20C	2/0	6	63110/63115 63125/63120	4½"	1¼"	1½"	—	—
HT40C	4/0	6	63140 63148	5¾"	1⅜"	1⅞"	—	—
HT600C	500 MCM	2	63160 63169	6⅜"	2⅞"	1¾"	—	—
HT1000C	1000 MCM to 500 MCM	250 MCM to 1/0 AWG	63180	—	—	—	[184.15MM] 7.250	2.330 +.060
HT1000C-L	1000 MCM to 500 MCM	250 MCM to 250 MCM	63170	—	—	—	[263.40MM] 10.374	2.330 +.060

**Thomas & Betts**

Color-Keyed®

Wire Joints for Copper Conductor

Made of high conductivity copper, electro-tin-plated, these compression joints offer an ideal method of pigtail or tapping multiple conductors or for making a 2-way splice. Connectors and dies are colored for positive matching and compression.

All-around compression assures high conductivity, low resistance, and high pullout values which exceed Underwriters' Laboratories, Inc. requirements. These compression joints form a permanent installation, take a minimum amount of space, are easily insulated and give lowest installed cost.



Color-Keyed®

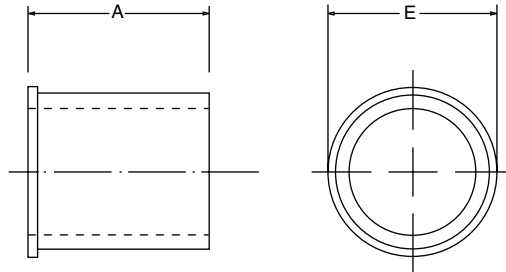
								Installing Tools				
Connector Range								Hand Tools				
Cat. No.	Circular Mil Area		Cable Combination		Dim. (in.)		Color Code	TBM25S/21E	TBM8/BS	TBM5/5S	TBM6 & TBM6S	
	min.	max.	min.	max.	A	E		Die Cat. No.	Die Cat. No.	Die Cat. No.	Upper	Lower
54610	19,590	27,290	3 #12 sol or str	2 #10 w/1 #12 sol or str	.407	.370	Blue	Included			13475	13477
54615	31,140	43,400	3 #10 sol or str	4 #10 sol or str	.407	.430	Gray	Included	13461	13454	13472	13476
54620	49,530	65,560	3 #8 sol or str	1 #4 w/2 #10 sol or str	.417	.475	Brown	Included			13474	
54625-TB	66,040	87,130	4 #8 sol or str	1 #2 str w/2 #12 sol or str	.479	.545	Green					
54630	83,480	99,990	2 #4 sol or str	2 #4 w/1 #10 sol or str	.479	.585	Pink		13462	13455	13475	13477
54635	99,060	124,220	6 #8 str	2 #4 w/2 #8 sol or str	.762	.620	Black				13474	
54640	125,220	166,120	3 #4 sol or str	3 #4 w/2 #10 sol or str	.762	.695	Orange					
54645-TB	166,960	193,630	4 #4 sol or str	2 #1 w/2 #10 sol or str	.824	.770	Purple		13463	13456	13475	
54650	189,190	244,020	3 #2 str	2 #1/0 w/2 #8 str	.887	.830	Yellow				13473	13476

Hand tools only.

UL Listed E9809 - code stranded

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Color-Keyed®

Cast Copper Bus Taps for Copper Conductor

Heavy Duty Bus Bar Taps - Straight Barrel Angle 600V to 35KV Applications

Material: High Conductivity Cast Copper Alloy

Finish: Electro Tin Plate

Contact Material: Be Cu

Finish: Silver

- For up to 1/2" thick bus bar 3" to 6" widths.
- For code copper cable.
- Clamps on – no drilling of bus bar.
- Takes up less than 1 1/2" of bus bar space.
- Convex shape of connector tongue exerts great contact pressure on bus bar.
- Installs with hydraulic tools and hex crimp dies.

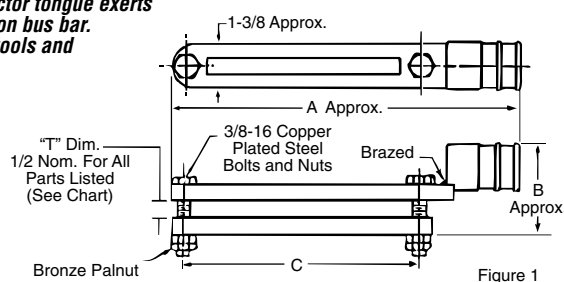


Figure 1

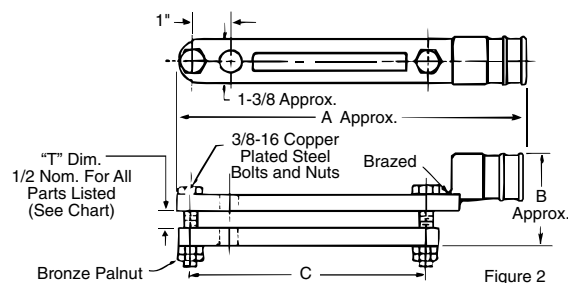


Figure 2

T&B Cat. No.	Wire Flex		Fig. No.	Busbar Width	Dimensions (in.)			Die Code
	Code	Flex			A	B	C	
251-31446-1	1/0	225/24	1	3	6 1/8	2 3/32	3 1/2	66H
251-31446-7			1	4	7 1/8	2 3/32	4 1/2	66H
251-31446-13			2	5 or 6	9 1/8	2 3/32	6 1/8	66H
251-31446-8	2/0	1/0	1	4	7 1/8	2 3/32	4 1/2	66H
251-31446-14		275/24	2	5 or 6	9 1/8	2 3/32	6 1/8	66H
251-31446-23	4/0	450/24	1	3	6 1/8	2 3/32	3 1/2	66H
251-31446-22			1	4	7 1/8	2 3/32	4 1/2	66H
251-31446-19			2	6	9 1/8	2 3/32	6 1/8	66H
251-31446-29	250 kcmil	4/0 550/24	1	3	5 1/16	2 3/32	3 3/8	66H
251-31446-30			1	4	7 1/8	2 3/32	4 1/2	66H
251-31446-31			1	5 or 6	9 1/8	2 3/32	6 7/16	66H
251-31446-3	350 kcmil		1	3	6 3/8	2 3/16	3 1/2	99H
251-31446-9			1	4	7 3/8	2 3/16	4 1/2	99H
251-31446-15			2	5 or 6	9 3/8	2 3/16	6 3/8	99H
251-31446-4	500 kcmil	350 925/24	1	3	6 3/8	2 3/16	3 1/2	99H
251-31446-10			1	4	7 3/8	2 3/16	4 1/2	99H
251-31446-16			2	5 or 6	9 3/8	2 3/16	6 3/8	99H
251-31446-17	600 kcmil		2	5 or 6	9 3/4	2 3/4	6 3/8	112H
251-31446-21	700 kcmil		1	6	9 3/4	2 3/4	6 7/16	112H
251-31446-6	750 kcmil	500 1325/24	1	3	6 3/4	2 3/4	3 1/2	112H
251-31446-12			2	4	7 3/4	2 3/4	4 1/2	112H
251-31446-18			2	5 or 6	9 3/4	2 3/4	6 3/8	112H
251-31446-36		750 1925/24	2	5 or 6	9 3/4	2 3/4	6 7/16	112H

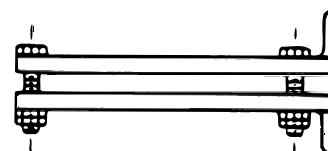
NOTES:

Styles shown have cable tap on one portion of clamp assembly. Clamp assemblies with cable taps on both portions (top & bottom identical) are also available. These assemblies are identified by adding suffix "AD" to part numbers shown. Example: 251-31446-1AD

Only use hydraulic tools with hex crimp dies.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Double Cable - Use AD Suffix

Thomas & Betts

Color-Keyed®**Quick Bus Taps for Copper Conductor****Quick Connector to Bus Bar
600V Applications**

Material: High Conductivity Copper

Finish: Electro Tin Plate

Color-Keyed®



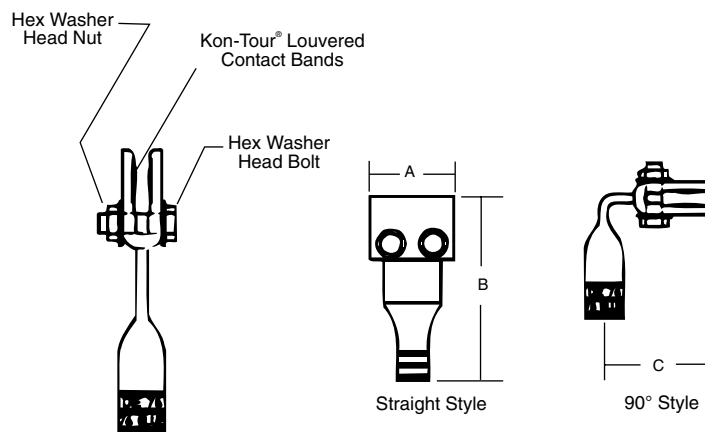
T&B Cat. No.	Wire Flex		Bolt Size (in.)	Dimensions (in.)			Die Code	Color Key
	Code	Flex		A	B	C		
BD40-25	4/0	450/24	1/4	1 3/8	3 13/16		54	Purple
BD40-2590	4/0	450/24	1/4	1 3/8		2 5/32	54	Purple
BD250-25	250 kcmil	4/0(550/24)	1/4	1 3/8	4 1/8		62	Yellow
BD250-2590	250 kcmil	4/0(550/24)	1/4	1 3/8		2 5/32	62	Yellow
BD300-25	300 kcmil		1/4	1 3/8	4 3/16		66	White
BD300-2590	300 kcmil		1/4	1 3/8		2 5/32	66	White
BD350-25	350 kcmil	650/24	1/4	1 3/8	4 7/16		71	Red
BD350-2590	350 kcmil	650/24	1/4	1 3/8		2 5/32	71	Red
BD400-25	400 kcmil	775/24	5/16	2	4 21/32		76	Blue
BD400-2590	400 kcmil	775/24	5/16	2		2 5/32	76	Blue
BD500-25	500 kcmil	350(925/24)	5/16	2	4 3/16		87	Brown
BD500-2590	500 kcmil	350(925/24)	5/16	2		2 1/4	87	Brown
BD600-25	600 kcmil		5/16	2	5 3/16		94	Green
BD600-2590	600 kcmil		5/16	2		2 1/4	94	Green
BD700-25	700 kcmil		5/16	2	5 3/16		99	Pink
BD700-2590	700 kcmil		5/16	2		2 1/4	99	Pink
BD750-25	750 kcmil	500(1325/24)	5/16	2	5 3/16		106	Black
BD750-2590	750 kcmil	500(1325/24)	5/16	2		2 1/4	106	Black

NOTES:

These connectors are U.L. recognized.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

**Thomas & Betts**

Color-Keyed®

Motor Pigtail Connectors



Motor Lead Disconnects

Thomas & Betts offers a complete line of Motor Lead Disconnects for 600 volt and 5kv applications. Constructed of high conductivity copper with tin-plating, these disconnects achieve quick, reliable change out of electric motors while eliminating bolting, taping and loose connections.

The Motor Lead Disconnects cover the wire range from #16 through 4/0 AWG and meet or exceed the electrical and mechanical performance of bolted connections. The female disconnects are equipped with a beryllium copper interface band to produce dependable connections.

Features and Benefits

- Quick connections—Eliminates nuts, bolts and washers.
- Reliable insulation—No more “miles” of insulating tape. Simply slide on the reusable boot, keeping the total assembly small enough to fit into tight motor housings.
- Labor savings—Fast snap-together assembly.
- Quick disconnect—No knife-cutting of melted tape, therefore no risk of cutting wire insulation, less motor down-time, and installer exposure in hostile environments is minimized.

E

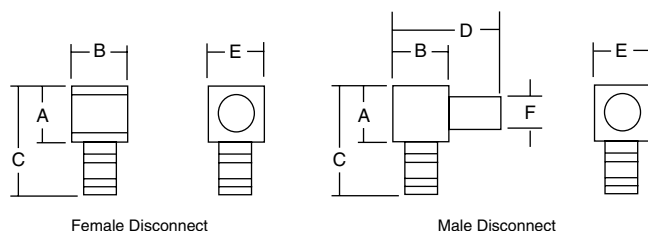
Color-Keyed®

Motor Pigtail Connector – One Line to One Load (2 Wire)

Cat. No.		Wire Size	Body Size	Color Code	Boot Insulation	Dimensions (in.)						Strip Length (in.)
Female Disconnect	Male Disconnect					A	B	C	D	E	F	
MD1614F-0	MD1614M-0	16-14 AWG	0	Blue	MDBOOT-0	.25	.25	.63	.52	.25	.125	3/8"
MD1614F-1	MD1614M-1	16-14 AWG	1	Blue	MDBOOT-1	.38	.38	.78	.75	.38	.250	3/8"
MD1210F-1	MD1210M-1	12-10 AWG	1	Yellow	MDBOOT-1	.38	.38	.78	.75	.38	.250	3/8"
MD1210F-2	MD1210M-2	12-10 AWG	2	Yellow	MDBOOT-2	.50	.50	.90	1.00	.50	.370	3/8"
MD8F-1	MD8M-1	8 AWG	1	Red	MDBOOT-1	.38	.38	.82	.75	.38	.250	7/16"
MD8F-2	MD8M-2	8 AWG	2	Red	MDBOOT-2	.50	.50	.95	1.00	.50	.370	7/16"
MD6F-1	MD6M-1	6 AWG	1	Blue	MDBOOT-1	.38	.38	.88	.75	.38	.250	1/2"
MD6F-2	MD6M-2	6 AWG	2	Blue	MDBOOT-2	.50	.50	1.02	1.00	.50	.370	1/2"
MD4F-2	MD4M-2	4 AWG	2	Gray	MDBOOT-2	.50	.50	1.06	1.00	.50	.370	1/2"
MD2F-2	MD2M-2	2 AWG	2	Brown	MDBOOT-2	.50	.50	1.09	1.00	.50	.370	17/32"
MD2F-3	MD2M-3	2 AWG	3	Brown	MDBOOT-3	.88	.88	1.46	1.75	.88	.500	17/32"
MD1F-2	MD1M-2	1 AWG	2	Green	MDBOOT-2	.50	.50	1.23	1.00	.50	.370	9/16"
MD1F-3	MD1M-3	1 AWG	3	Green	MDBOOT-3	.88	.88	1.56	1.75	.88	.500	9/16"
MD10F-3	MD10M-3	1/0 AWG	3	Pink	MDBOOT-3	.88	.88	1.56	1.75	.88	.500	9/16"
MD20F-3	MD20M-3	2/0 AWG	3	Black	MDBOOT-3	.88	.88	1.59	1.75	.88	.500	5/8"
MD30F-3	MD30M-3	3/0 AWG	3	Orange	MDBOOT-3	.88	.88	1.71	1.75	.88	.500	11/16"
MD40F-3	MD40M-3	4/0 AWG	3	Purple	MDBOOT-3	.88	.88	1.81	1.75	.88	.500	3/4"

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Female Disconnect

Male Disconnect

Thomas & Betts

Color-Keyed[®]

Motor Pigtail Connectors

Material: High Conductivity Copper

Plating: Tin

Insulator: Thermoplastic Elastomer



Motor Pigtail Connector – One Line to One Load (2 Wire) – (continued)

Cat. No.		WT112M WT111M WT2000 ERG2002	TBM25S TBM20S	Installing Tools		TBM5 TBM5S Die Set	TBM8 TBM8S Die Set	Hydraulic Tools & TBM50S Hand Tool	
Female Disconnect	Male Disconnect			TBM6, TBM6S, TBM60RS Upper Die	Lower Die			Die Code	Color
MD1614F-0	MD1614M-0	X							
MD1614F-1	MD1614M-1	X							
MD1210F-1	MD1210M-1	X							
MD1210F-2	MD1210M-2	X							
MD8F-1	MD8M-1		X	13475	13477	13454	13461	21	Red
MD8F-2	MD8M-2		X	13475	13477	13454	13461	21	Red
MD6F-1	MD6M-1		X	13475	13477	13454	13461	24	Blue
MD6F-2	MD6M-2		X	13475	13477	13454	13461	24	Blue
MD4F-2	MD4M-2		X	13472	13476	13454	13461	29	Gray
MD2F-2	MD2M-2		X	13474	13477	13454	13461	33	Brown
MD2F-3	MD2M-3		X	13474	13477	13454	13461	33	Brown
MD1F-2	MD1M-2			13474	13477	13455	13462	37	Green
MD1F-3	MD1M-3			13474	13477	13455	13462	37	Green
MD10F-3	MD10M-3			13475	13477	13455	13462	42	Pink
MD20F-3	MD20M-3			13474	13477	13455	13462	45	Black
MD30F-3	MD30M-3			13474	13477	13455	13462	50	Orange
MD40F-3	MD40M-3			13475	13477	13456	13463	54	Purple

Specifications:

Wire range: No. 16 to 4/0 AWG

Rating: 600V, 90°C

Material: High conductivity copper

Plating: Tin

Insulator: Thermoplastic Elastomer

Quick, Easy Installation

1. Choose appropriate Color-Keyed[®] disconnect for conductor size to be terminated. Note color of bands on disconnect barrel.
2. Select proper installing die by matching die color to disconnect barrel color bands.
3. Install die in T&B tool, insert stripped wire into barrel of disconnect and compress between color bands. Repeat for mating half.
4. Snap the two halves together and slip on insulator over mated connection. Secure insulator with TY-RAP[®] cable ties provided with the insulators.



600 Volt Version



5KV Volt Version

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

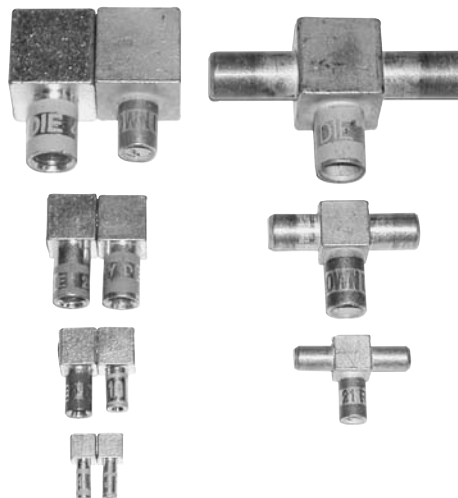
Thomas & Betts

Color-Keyed®

Motor Pigtail Connectors

Material: High Conductivity Wrought Copper
KON-TOUR® louvered contact bands.

Finish: Electro-Tin Plate, color-coded to match installing dies.



E

Color-Keyed®

Motor Pigtail Connector – One Line to Two Load (3 Wire)

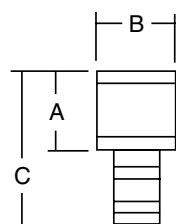
Cat. No.		Wire Size	Body Size	Color Code	Boot Insulation	Dimensions (in.)						Strip Length (in.)
Female Disconnect	Male Disconnect					A	B	C	D	E	F	
MD1614F-0	M2D1614M-0	16-14 AWG	0	Blue	MDBOOT-1	.250	.250	.63	.77	.25	.12	3/8"
MD1210F-1	M2D1210M-1	12-10 AWG	1	Yellow	M2DBOOT-1	.380	.380	.780	.750	.380	.25	3/8"
MD1210F-2	M2D1210M-2	12-10 AWG	2	Yellow	M2DBOOT-2	.500	.500	.900	1.500	.500	.37	3/8"
MD8F-1	M2D8M-1	8 AWG	1	Red	M2DBOOT-1	.380	.380	.820	1.125	.380	.25	7/16"
MD8F-2	M2D8M-2	8 AWG	2	Red	M2DBOOT-2	.500	.500	.950	1.500	.500	.37	7/16"
MD6F-1	M2D6M-1	6 AWG	1	Blue	M2DBOOT-1	.380	.380	.875	1.125	.380	.25	1/2"
MD6F-2	M2D6M-2	6 AWG	2	Blue	M2DBOOT-2	.500	.500	1.020	1.500	.500	.37	1/2"
MD4F-2	M2D4M-2	4 AWG	2	Gray	M2DBOOT-2	.500	.500	1.060	1.500	.500	.37	1/2"
MD2F-2	M2D2M-2	2 AWG	2	Brown	M2DBOOT-2	.500	.500	1.090	1.500	.500	.37	1 1/32"
MD2F-3	M2D2M-3	2 AWG	3	Brown	M2DBOOT-3	.875	.875	1.460	2.630	.875	.50	1 1/32"
MD1F-2	M2D1M-2	1 AWG	2	Green	M2DBOOT-2	.50	.50	1.230	1.500	.500	.37	9/16"
MD1F-3	M2D1M-3	1 AWG	3	Green	M2DBOOT-3	.875	.875	1.560	2.630	.875	.50	9/16"
MD10F-3	M2D10M-3	1/0 AWG	3	Pink	M2DBOOT-3	.875	.875	1.560	2.630	.875	.50	9/16"
MD20F-3	M2D20M-3	2/0 AWG	3	Black	M2DBOOT-3	.875	.875	1.590	2.630	.875	.50	5/8"
MD30F-3	M2D30M-3	3/0 AWG	3	Orange	M2DBOOT-3	.875	.875	1.710	2.630	.875	.50	1 1/16"
MD40F-3	M2D40M-3	4/0 AWG	3	Purple	M2DBOOT-3	.875	.875	1.810	2.630	.875	.50	3/4"

Operating Range: 600V max., 1000V max. in signs and fixtures.

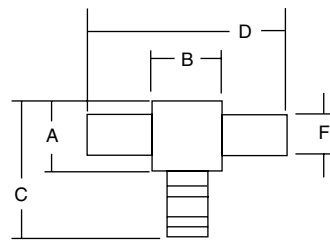
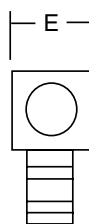
Listing: U.L. Listed and CSA Certified for 12 - 8 AWG solid copper conductors and stranded copper conductors in the sizes shown.

Selection: Always use the same body size when selecting male and female disconnects. For example, to connect a 2 AWG male to an 8 AWG female, select Catalog Numbers M2D2M-2 and MD8F-2. Both have body size 2.

Insulation: Use insulating boots matching the disconnect body size as indicated in the chart. To protect the connection from moisture and dirt use sealing compound Catalog Number MDBOOT-SEAL.



Female Disconnect



Male Disconnect

Tooling: Pg. E78-E102
 Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®

Motor Pigtail Connectors

Motor Pigtail Connector – One Line to Two Load (3 Wire) – (continued)

Cat. No.		WT112M WT111M ERG 2002 WT2000	TBM25S	Installing Tools					
				TBM6, TBM6S, TBM60RS		TBM5 TBM5S	TBM8 TBM8S	Hydraulic Tools	
Female Disconnect	Male Disconnect			Upper Die	Lower Die	Die Set	Die Set	Die Code	Color
MD1210F-1	M2D1210M-1	X	—	—	—	—	—	—	Yellow
MD1210F-2	M2D1210M-2	X	—	—	—	—	—	—	Yellow
MD8F-1	M2D8M-1		X	13475	13477	13454	13461	21	Red
MD8F-2	M2D8M-2		X	13475	13477	13454	13461	21	Red
MD6F-1	M2D6M-1		X	13475	13477	13454	13461	24	Blue
MD6F-2	M2D6M-2		X	13475	13477	13454	13461	24	Blue
MD4F-2	M2D4M-2		X	13472	13476	13454	13461	29	Gray
MD2F-2	M2D2M-2		X	13474	13477	13454	13461	33	Brown
MD2F-3	M2D2M-3		X	13474	13477	13454	13461	33	Brown
MD1F-2	M2D1M-2			13474	13477	13455	13462	37	Green
MD1F-3	M2D1M-3			13474	13477	13455	13462	37	Green
MD10F-3	M2D10M-3			13475	13477	13455	13462	42	Pink
MD20F-3	M2D20M-3			13474	13477	13455	13462	45	Black
MD30F-3	M2D30M-3			13474	13477	13455	13462	50	Orange
MD40F-3	M2D40M-3			13475	13477	13456	13463	54	Purple
MD1614F-0	M2D1614M-0	X		—	—	—	—	—	Blue

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

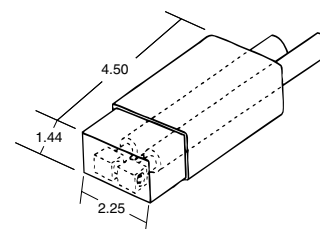
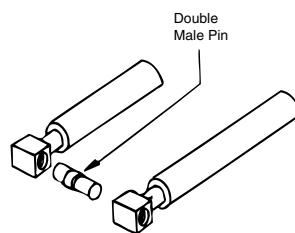
Color-Keyed®

Motor Pigtail Connectors



5KV Motor Pigtail Connector Supplied with Boot, Pin, Silicon Gel (Two Female Connectors Required)

Cat. No.	Wire Range AWG.	Female Disconnect Cat. No.	Color Code	Dimensions (In.)			Body Size
				L	W	H	
5KVBOOT-2L	#8	MD8F-2	Red	4.50	2.25	1.44	2
5KVBOOT-2L	#6	MD6F-2	Blue	4.50	2.25	1.44	2
5KVBOOT-2L	#4	MD4F-2	Grey	4.50	2.25	1.44	2
5KVBOOT-2L	#2	MD2F-2	Brown	4.50	2.25	1.44	2
5KVBOOT-2L	#1	MD1F-2	Green	4.50	2.25	1.44	2
5KVBOOT-3L	#2	MD2F-3	Brown	4.50	2.25	1.44	3
5KVBOOT-3L	#1	MD1F-3	Green	4.50	2.25	1.44	3
5KVBOOT-3L	1/0	MD10F-3	Pink	4.50	2.25	1.44	3
5KVBOOT-3L	2/0	MD20F-3	Black	4.50	2.25	1.44	3
5KVBOOT-3L	3/0	MD30F-3	Orange	4.50	2.25	1.44	3
5KVBOOT-3L	4/0	MD40F-3	Purple	4.50	2.25	1.44	3



Sealant

Cat. No.	Description
MDBOOT-SEAL	Sealant

Material Specifications:

Description:

Application Temperature:

Service Temperature:

Dimensions:

Polybutene Compound

40°F to 100°F

-40°F to 180°F

Width 1"

Thickness 3/8"

Length (Std. Roll) 10' wrapped on release liner

Environmental Resistance:

Chemical Resistance:

Dielectric Strength:

Volume Resistivity:

Flame Retardancy:

Resists normal aging process

Resists acids, bases and alcohols

200 v/mil minimum

1013 ohms/cm

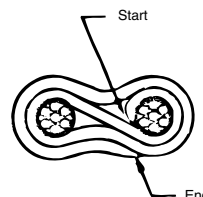
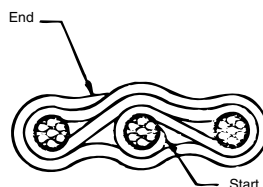
Pass VO Vertical Flame Test

Sealant should be used with T&B MOTOR-DISCONNECT Boots: MDBOOT-0, MDBOOT-1, MDBOOT-2 and MDBOOT-3.

The cable should be clean and free of grease, oil, and other foreign substances.

Apply two layers around each cable at the same distance from the connector.

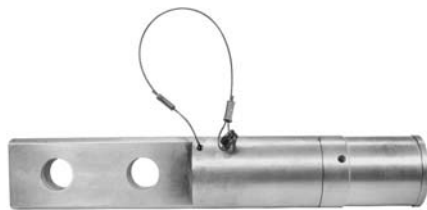
Slide the assembly into boot, apply TY-RAP® cable ties and work sealant around wires at end of boot to eliminate voids.



Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®**High-Amperage Quick Power Disconnects**

Making connections for loads requiring high amperage has never been easier. We have designed this connector to be the fastest "off-load" connection possible, while maintaining the integrity of the system.

Using the multi-contact approach, the design provides low insertion and extraction forces with low resistance and temperature rise. This unique design allows for multiple connections and disconnection without the performance characteristics changing or deteriorating.

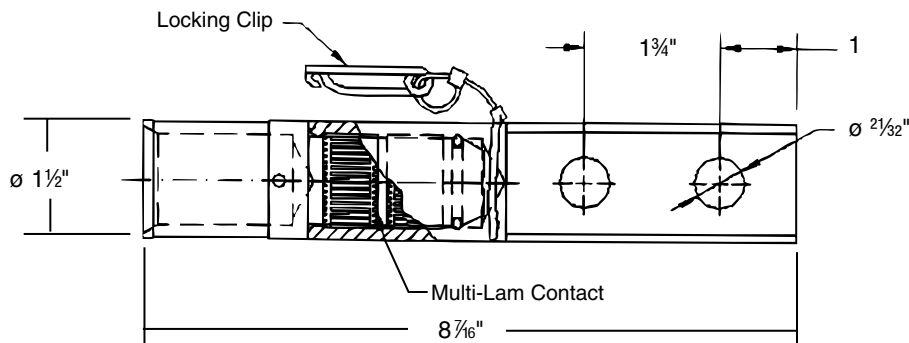
Unique Construction

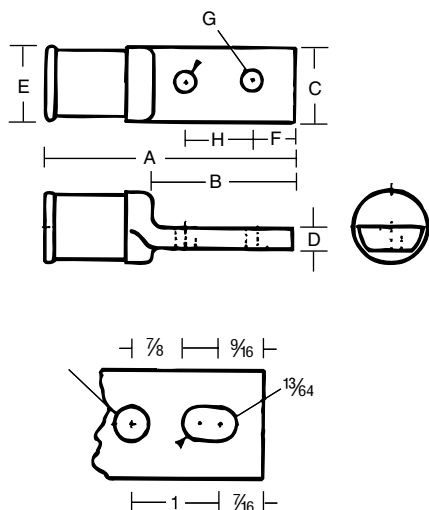
Material used in the design is 99.9% conductive copper, silver plated. The contact design is a louvered band of beryllium copper. All the raised edges of the louvered band are deflected, producing a multitude of high-force contact points. Each contact point is typically in the force range of 8,000 to 10,000 psi. High currents, caused by short circuits or sudden surges, tend to make the contact interface even more efficient by increasing the contact pressure.

Cat. No.		Conductor	Die Code
Male	Female		
272-32175M	272-32175F	777 MCM	115
Future Design		646 MCM	
Future Design		535 MCM	
Future Design		444 MCM	

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111


Thomas & Betts

Color-Keyed®**Copper Traction Motor Disconnect Lugs for Diesel-Electric Locomotives**

± Cat. No. MD 1925 Supplied With
Elongated Bolt Hole.

**T&B Method Traction Motor Disconnect Lugs
for Diesel-Electric Locomotives**

Cat. No.	Cable Size	Dimensions (in.)				E Approx. (in.)	Bolt Size (in.)			Die Code
		A	B	C	D		F	G	H	
MD37	37/24	2 7/16	1 3/4	1 9/32	5/32	3/8	3/8	5/16	7/8	26
MDD61	61/24	2 7/16	1 3/4	1 9/32	5/32	3/8	3/8	5/16	7/8	26
MD 105	105/24	2 5/8	1 3/4	1 9/32	5/32	7/16	3/8	5/16	7/8	33
MD 105	91/24	2 5/8	1 3/4	1 9/32	5/32	7/16	3/8	5/16	7/8	33
MD 125	125/24	2 5/8	1 3/4	1 9/32	5/32	7/16	3/8	5/16	7/8	33
MD 150	150/24	2 15/16	1 7/8	1 9/32	.203	5/8	7/16	5/16	7/8	45
MD 175	175/24	2 15/16	1 7/8	1 9/32	.203	5/8	7/16	5/16	7/8	45
MD 225	225/24	3	1 7/8	1 1/16	.203	23/32	7/16	5/16	7/8	60
MD 275	275/24	3	1 7/8	1 1/16	.203	23/32	7/16	5/16	7/8	60
MD 325	325/24	3	1 7/8	1 1/16	.203	23/32	7/16	5/16	7/8	60
MD 375	375/24	3 1/8	2	2 5/32	.203	23/32	7/16	5/16	7/8	60
MD 450	450/24	3 1/8	2	2 5/32	.203	23/32	7/16	5/16	7/8	60
MD 550	550/24	3 3/16	1 7/8	1 5/16	.203	1	7/16	5/16	7/8	76
MD 650	650/24	3 3/16	1 7/8	1 5/16	.203	1	7/16	5/16	7/8	76
MD 775	775/24	3 3/16	1 7/8	1 5/16	.203	1	7/16	5/16	7/8	76
MD 925	925/24	3 3/4	2 1/16	1 1/8	.375	1 5/32	7/16	3/8	1	87
MD 1100	1100/24	3 3/4	2 1/16	1 1/8	.375	1 3/8	7/16	3/8	1	107
MD 1325	1325/24	3 25/32	2 3/32	1 5/32	.375	1 3/4	7/16	3/8	1	107
MD 1600	1600/24	3 3/4	2 1/16	1 1/8	.375	1 3/8	7/16	3/8	1	107
MD 1925	1925/24	4 1/16	2 3/32	1 1/8	.375	1 1/2	7/16	3/8	1	115
MD 2300	2300/24	4 3/8	2 1/8	1 1/8	.375	1 21/32	7/16	3/8	1	130

Note: Some parts may not be current on the system. Contact Tech Services for information.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

E**Color-Keyed®****Thomas & Betts**

Color-Keyed® Connector Kits



Color-Keyed®

Color-Keyed® Connector Kit for Copper Cables

Cat. No.	Qty.	Cat. No.	Cable Size		Items	Std. Pkg.	Wt. Each
TBM2K-1	25	54104	#8		One hole lugs	1	12
	25	54105	#6		One hole lugs		
	15	54106	#4		One hole lugs		
	10	54107	#2, #3		One hole lugs		
	15	54504	#8		2-way conn.		
	15	54505	#6		2-way conn.		
	10	54506	#4		2-way conn.		
	5	54507	#2		2-way conn.		
			Min.	Max.			
	15	54610	3-#12	4-#12	Pigtails		
	15	54615	4-#12	4-#10	Pigtails		
	15	54620	3-#8	1-#4	Pigtails		
			Min.	Max.			
			10	10			
	15	54710	8	12	C-Tap		
			6	10-12			
	15	54615	8	8-10	C-Tap		
			4 or 5	8-10-12			
	15	54720	6	6-8	C-Tap		
	1	TBM20S or TBM25S	#8	#2AWG			

U.L. not Applicable



MDKITL

Carrying Cases

Cat. No.	Description
PWK1	Empty case – includes Color-Keyed® wall chart; make up your own selection of Color-Keyed® lugs, splices, taps or motor disconnects.
PWK4	Metal cabinet that holds four of the PWK1 shells slide out for easy removal of PWK1.
MDPWK12	Selection of size 1 and 2 male and female motor disconnects plus insulators; to connect 60 single line to single line load motor leads, #12 AWG through #2 AWG; tools not included.
MDPWK23	Selection of size 2 and 3 male and female motor disconnects plus insulators; to connect 54 single line to single line load motor leads, #12 AWG through #4/0 AWG; tools not included. 2 and 1 male and female motor disconnects plus insulators. To convert single to single line or single line to two line.
MDKITL	Includes Tool.

MDPWK12 Case Contents:

1 PWK1	10 MD1210F-1	6 MD8M-2	6 MD8F-2
10 MD1210M-1	10 MD8F-1	6 MD6M-2	6 MD6F-2
10 MD8M-1	10 MD6F-1	6 MD4M-2	6 MD4F-2
10 MD6M-1	30 MDBOOT-2	6 MD2M-2	6 MD2F-2
30 BOOT-1	6 MD1210M-2	6 MD1210F-2	

MDPWK23 Case Contents:

1 PWK1	6 MD1210F-2	3 MD2M-3	3 MD2F-3
6 MD1210M-2	6 MD8F-2	3 MD1M-3	3 MD1F-3
6 MD8M-2	6 MD6F-2	3 MD10M-3	3 MD10F-3
6 MD6M-2	6 MD4F-2	3 MD20M-3	3 MD20F-3
6 MD4M-2	6 MD2F-2	3 MD30M-3	3 MD30F-3
6 MD2M-2	6 MD1F-2	3 MD40M-3	3 MD40F-3
6 MD1M-2	36 MDBOOT-2	18 MDBOOT-3	

MDKITL Case Contents:

1 PWK1	1 TBM25S	24 MDBOOT-2	3 M2D2M-2
3 M2D4M-2	3 M2D6M-2	3 M2D8M-2	12 M2DBOOT-2
12 MDBOOT-1	12 MD2F-2	12 MD4F-2	12 MD6F-2
12 M2D8F-2	6 MD2M-2	6 MD4M-2	6 MD6M-2
6 MD6F-1	6 MD6M-1	6 MD8M-2	6 MD8F-1
6 MD8M-1			

Thomas & Betts

Color-Keyed®

Connectors for Aluminum/Copper Code Conductor

The Copper Colloidal Surface Treatment That Protects, Lubricates and Enhances Conductivity Between All Electrical Connections

Good connections are one of the most important aspects of electrical work. Mechanics know how much down-time is caused when fluids or oils leak into the raceway system or looking for a weak link in a ground system caused by a high resistance connection. Mechanics also know how much time is spent keeping contacts, switches, lugs and other connectors clean or replacing parts because of "green scourge" build-up. Thomas & Betts has the solution to improve connections made in thousands of electrical and raceway installations made each day by electricians everywhere.

Kopr-Shield® compound is a unique homogenized blend of pure, polished colloidal copper, rust and corrosion inhibitors that simultaneously protects, lubricates and enhances the conductivity of the mating surfaces to which it is applied. Extremely adhesive, Kopr-Shield® compound flows smoothly into uneven contours and voids, making application easy, protection and lubrication complete and positive. A stable compound, it will not settle-out, thin, thicken, harden, or dry out under the most severe environmental conditions.

Kopr-Shield® Compound has excellent temperature characteristics – brushed on at –50F to 250F (other compounds either turn solid or run like water at these extremes). Even at 1800F, Kopr-Shield® remains intact for short terms.

Kopr-Shield® Compound may be used to advantage in all electrical installations. When the environment is hostile to good electrical and mechanical connections, Kopr-Shield® Compound is a must!

Use Kopr-Shield® Compound for Battery Lugs and Cables.

- Prevention of "Green Scourge" corrosion.
- Reduction of resistance.
- Ease of terminal installation and removal.

Use Kopr-Shield® Compound for Raceways.

- Lubrication – Ease of assembly and disassembly.
- Grounding Continuity Improved – Exceeds code requirements.



Use Kopr-Shield® Compound for Fuse Clips.

- Even Heat Distribution – Elimination of hot spots.
- Oxidation Prevention – Prevents carbon path formation.
- Lubrication – Easy installation and removal of fuses.

Use Kopr-Shield® Compound for Wiping Contacts, Drum Switches and Slip Rings.

- Prevention of galling, burning, pitting and discoloration.
- Suppression of arcing and dissipation of coronas.
- Lubrication for ease of operation.



Kopr-Shield®

Cat. No.	Description	Std. Pkg.	Wt. Lbs./C
201-31879	1 1/2 oz. Container with brush	96	11.46
201-31879-1	4 oz. Container with brush	24	38.54
CP8-TB	8 oz. Container with brush	12	64.58
CP16	16 oz. Container with brush	12	120.83
CP128	1 Gallon Can	4	952.00



ALUMA-SHIELD Aluminum Joint Compound

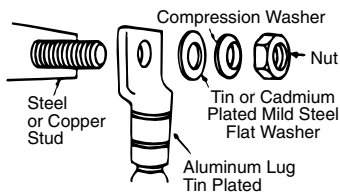
Cat. No.	Contains	Description
21059	Squeeze Bottle Pt.	For aluminum cable connections; contains fine zinc particles which break through oxide film on cable strands upon compression of connection; assures a low resistance contact and seals out air and moisture.
AP8	8 oz. Brush Cap Can	
M53	50 Gallon Drum	

Note: U.L. Listed only for use on electrical cables in cable connector assemblies, or on bus bars rated for NEC applications up to 8 KV and 90°C.

Thomas & Betts

Color-Keyed®

Connectors for Aluminum/Copper Code Conductor



Belleville Spring Washer
Material: Hardened Steel
Finish: Tin Plate
Color: Yellow
Flat Washer

Material: Steel
Finish: TinChromate Plate
Color: Yellow

When bolting aluminum lugs and connectors to bus bars with steel or brass hardware, the recommended practice to ensure a tight connection is to use a Belleville spring washer on top of a flat washer under the bolt head or nut. For heavy duty service where the heat rise is expected to exceed 30°C above ambient, this procedure maintains constant pressure as the connector metals expand and contract with temperature changes.



Dragon Tooth® transition washers let you connect copper-to-aluminum, copper-to-copper, or aluminum-to-aluminum components quickly and dependably.

- Toothed surface penetrates aluminum and copper oxides.
- Eliminates need for:
 - 1) grinding aluminum surfaces
 - 2) applying compounds
 - 3) spring-typed washers
- Lower installed cost.

Belleville Compression Washers Plus Flat Washer

Cat. No.	Bolt Sizes (in.)	Dimensions (in.)			
		Flat Washer		Belleville Washer	
		A	B	C	D
60800B	1/4	3/4	.067	1 1/16	.055
60801B	5/16	7/8	.074	1 3/16	.065
60802B	3/8	1	.083	1 5/16	.075
60803B	1/2	1 1/4	.109	1 3/4	.095

Washer Only

Cat. No.	Bolt Sizes (in.)	Dimensions (in.)			
		Flat Washer		Belleville Washer	
		A	B	C	D
60800	1/4	—	—	1 1/16	.055
60801	5/16	—	—	1 3/16	.065
60802	3/8	—	—	1 5/16	.075
60803	1/2	—	—	1 3/4	.095
60804	5/8	—	—	1 1/2	.110

Note: Ordering quantity must be in unit quantities and multiples thereof.

The Belleville washer should be installed with a larger flat washer to spread the high stresses of the spring washer edges over a large area of the lug and/or bus bar.

Dragon Tooth® Transition Washers

Cat No.	Bolt Size (in.)	Torque in lbs.
DTW14	1/4	50-80
DTW516	5/16	125-160
DTW38	3/8	160-240
DTW12	1/2	390-540
DTW58	5/8	540-730

Color-Keyed®

Connectors for Aluminum/Copper Code Conductor



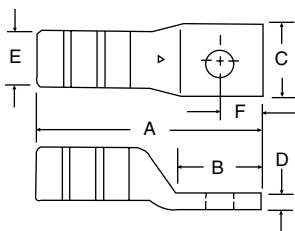
One Hole Lugs – 90°C, 600V to 35KV Applications

Made of high conductivity wrought aluminum, these connectors are designed and approved for aluminum and copper conductors, performing equally well on both metals.

Color-Keyed® connectors quickly identify the correct Color-Keyed® installing die, for positive compressions. Hardened steel dies compress the connector around the cable, changing the round strands to polygonal shapes and cold flowing the strands and connector into a solid homogenous mass.

Long compression areas assure complete contact and multiple compressions prevent creep of the aluminum conductor. Connectors are filled with a high temperature oxide inhibitor compound. Connectors are electro tin coated to prevent electrolytic corrosion when in contact with copper and assure lowest contact resistance.

Material – High Conductivity Wrought Aluminum
Finish – Electro-Tin Plated



Cat. No.	Cable Size AL/CU	Bolt Size(in.)	Color Code	Dimensions (in.)					
				A	B	C	D	E	F
60096	#10	#10	Red	1.09	.56	.41	.06	.270	.22
60097		1/4		1.31	.72	.43	.07	.270	.34
60099		3/8		1.53	.93	.58	.06	.270	.44
60101	#8	#10	Blue	1.22	.56	.41	.09	.280	.22
60102		1/4		1.38	.71	.44	.09	.280	.34
60103		5/16		1.56	.91	.60	.06	.280	.44
60104-TB		3/8		1.60	.93	.60	.06	.280	.44
60106	#6	#10	Gray	1.52	.59	.47	.13	.350	.22
60107		1/4		1.67	.75	.47	.13	.350	.34
60108		5/16		1.83	.91	.63	.09	.350	.44
60109		3/8		1.86	.93	.63	.09	.350	.44
60112	#4	1/4	Green	1.81	.75	.64	.19	.460	.34
60113		5/16		2.00	.91	.64	.19	.460	.44
60114		3/8		2.03	.93	.64	.19	.460	.44
60116	#2	1/4	Pink	1.91	.75	.72	.19	.510	.34
60117		5/16		2.06	.91	.72	.19	.510	.44
60118		3/8		2.09	.93	.72	.19	.510	.44
60120		1/2		2.25	1.41	.88	.13	.510	.69
60122	#1	1/4	Gold	2.30	.81	.75	.19	.560	.34
60123		5/16		2.39	.91	.75	.19	.560	.44
60124		3/8		2.42	.93	.75	.19	.560	.44
60126		1/2		2.89	1.41	.88	.16	.560	.69
60128	1/0	1/4	Tan	2.36	.81	.88	.19	.620	.34
60129		5/16		2.51	.97	.88	.19	.620	.44
60130		3/8		2.51	.97	.88	.19	.620	.44
60132		1/2		2.95	1.41	.94	.19	.620	.69
60134	2/0	1/4	Olive	2.48	.87	.97	.22	.700	.34
60135		5/16		2.64	1.03	.97	.22	.700	.44
60136		3/8		2.64	1.03	.97	.22	.700	.44
60138		1/2		3.10	1.41	1.03	.22	.700	.69
60140	3/0	1/4	Ruby	2.58	.87	1.06	.22	.770	.34
60141		5/16		2.83	1.09	1.06	.22	.770	.44
60142		3/8		2.83	1.09	1.06	.22	.770	.44
60144		1/2		3.15	1.41	1.06	.22	.770	.69
60147	4/0	5/16	White	3.53	.88	1.21	.25	.857	.38
60148		3/8		3.58	.93	1.21	.25	.857	.38
60150		1/2		3.90	1.25	1.21	.25	.857	.50
60151		3/4		4.65	2.00	1.21	.25	.857	.75
60154	250 kcmil	3/8	Red	3.73	.93	1.29	.27	.917	.38
60156		1/2		4.05	1.25	1.29	.27	.917	.50
60157		3/4		4.80	2.00	1.29	.27	.917	.75
60159	300 kcmil	5/16	Blue	3.75	.88	1.39	.28	.990	.38
60160		3/8		3.80	.93	1.39	.28	.990	.38
60162		1/2		4.13	1.25	1.39	.28	.990	.50
60165	350 kcmil	1/2	Brown	4.83	1.25	1.53	.33	1.090	.50
60166		3/4		5.58	2.00	1.53	.33	1.090	.75
60168	400 kcmil	1/2	Green	4.95	1.25	1.65	.38	1.180	.50
60171	500 kcmil	1/2	Pink	4.95	1.25	1.79	.38	1.280	.50
60172		3/4		5.70	2.00	1.79	.38	1.280	.75
60174	600 kcmil	5/8	Black	5.83	2.00	1.92	.37	1.360	.75
60176	700 kcmil	5/8	Purple	5.95	2.00	2.04	.38	1.440	.75
60178	750 kcmil	5/8	Yellow	6.03	2.00	2.13	.40	1.500	.75
60184	1000 kcmil	5/8	—	6.78	2.00	2.50	.50	1.770	.75

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®

Connectors for Aluminum/Copper Code Conductor



Two Hole Lugs – 90°C

600V to 35KV Applications

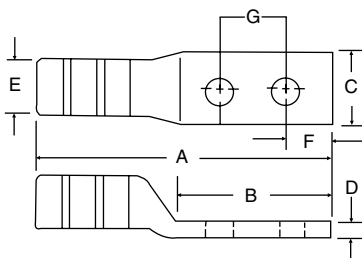
- AL and CU concentric and compact code AL strandings.
- Connectors are filled with oxide inhibitor compound.

Material – High Conductivity Wrought Aluminum.

Finish – Electro-Tin Plated.

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Color-Keyed®



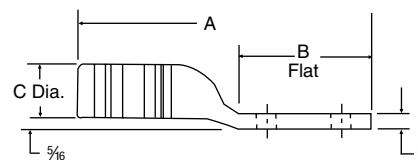
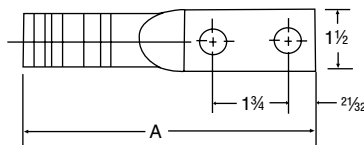
Cat. No.	Cable Size	Bolt Size (in.)	Color Code	Dimensions (in.)						
				A	B	C	D	E	F	G
60230	1/0 AWG	3/8	Tan	3.50	1.90	.880	.19	.62	.38	1.00
60236	2/0 AWG	3/8		3.50	1.90	.970	.22	.70	.38	1.00
60238	2/0 AWG	1/2	Olive	5.03	3.41	.970	.22	.70	.75	1.75
60242	3/0 AWG	3/8		3.66	1.18	1.063	.22	.77	.38	1.00
60244	3/0 AWG	1/2	Ruby	5.16	3.41	1.063	.22	.77	.75	1.75
60248	4/0 AWG	3/8		4.58	1.93	1.210	.25	.86	.38	1.00
60250	4/0 AWG	1/2	White	5.65	3.00	1.210	.25	.86	.50	1.75
60254	250 kcmil	3/8		4.73	1.93	1.290	.27	.92	.38	1.00
60256	250 kcmil	1/2	Red	5.80	3.00	1.290	.27	.92	.50	1.75
60260	300 kcmil	3/8		4.80	1.93	1.390	.28	.99	.38	1.00
60262	300 kcmil	1/2	Blue	5.88	3.00	1.390	.28	.99	.50	1.75
60265	350 kcmil	3/8		5.50	1.93	1.530	.33	1.09	.38	1.00
60267	350 kcmil	1/2	Brown	6.58	3.00	1.530	.33	1.09	.50	1.75
60268	400 kcmil	3/8		5.63	1.93	1.650	.38	1.18	.38	1.00
60269	400 kcmil	1/2	Green	6.70	3.00	1.650	.38	1.18	.50	1.75
60271	500 kcmil	3/8		5.63	1.93	1.790	.38	1.28	.38	1.00
60273	500 kcmil	1/2	Pink	6.70	3.00	1.790	.38	1.28	.50	1.75
60274	600 kcmil	3/8		5.75	1.93	1.920	.37	1.36	.38	1.00
60275	600 kcmil	1/2	Black	6.83	3.00	1.920	.37	1.36	.50	1.75
60276	700 kcmil	3/8		5.88	1.93	2.040	.38	1.44	.38	1.00
60277	700 kcmil	1/2	Purple	6.95	3.00	2.040	.38	1.44	.50	1.75
60278	750 kcmil	1/2	Yellow	7.15	3.00	2.130	.40	1.50	.50	1.75
60284	1000 kcmil	1/2	—	7.78	3.00	2.500	.50	1.77	.50	1.75

Note: Bolt holes 3/8" on 1" centers, 1/2" on 1 1/4" centers.

Range Taking Narrow Tongue Single Barrel Lugs*



Wire barrel factory filled with oxide inhibiting compound.



Cat. No.	Al-Cu Cable Range	Bolt Size	Hex Die No.	Color Code	No. of Compressions		Dimensions			
					13642 TBM12M	TBM15	A	B	C	D
60273N	350-500 kcmil	1/2	99H	Pink	4	4	6 7/8	3 1/8	1 1/2	1 3/32
60278N	500-750 kcmil	1/2	115H	Yellow	—	4	7 1/8	3 11/16	1 1/2	1/2

* 90°C, 600V to 35KV applications
 All lugs have 1 1/2" wide tongues. Bolt holes on 1 3/4" centers.
 Material: Aluminum
 Finish: Tin Plated
 Tooling: Pg. E78-E102
 Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®

Connectors for Aluminum/Copper Code Conductor



Designed for aluminum/copper metals, these two-way connectors permit aluminum conductors to be spliced to copper conductors, as well as aluminum-to-aluminum conductors.

Material – High Conductivity Wrought Aluminum
Finish – Electro-Tin Plated

Two Way Connectors for 600V to 35KV 90°C Applications

AL and CU concentric conductors and compact code AL strandings

Cat. No.	Conductor Code	Color Code	Dim. (in.)	
			A	E
60500	10 Str.	Red	1.00	.27
60501	8 Str.	Blue	1.19	.28
60507	6 Str.	Gray	1.63	.35
60512	4 Str.	Green	1.81	.46
60516	2 Str./3 Str.	Pink	1.81	.51
60522	1 Str.	Gold	2.38	.56
60530	1/0	Tan	2.38	.62
60536	2/0	Olive	2.50	.70
60542	3/0	Ruby	2.81	.77
60548	4/0	White	3.66	.86
60554	250 kcmil	Red	3.91	.92
60560	300 kcmil	Blue	3.97	.99
60565	350 kcmil	Brown	4.97	1.09
60568	400 kcmil	Green	4.97	1.18
60571	500 kcmil	Pink	4.97	1.28
60574	600 kcmil	Black	5.22	1.36
60576	700 kcmil	Purple	5.44	1.44
60578	750 kcmil	Yellow	5.69	1.50
60584	1000 kcmil		6.69	1.77



Reducing connectors are designed for splicing aluminum to copper conductors of equal ampacities. Connectors are made in the right combination of equivalent sizes. (Example: one end for 4/0 aluminum, the other end for 2/0 copper.)

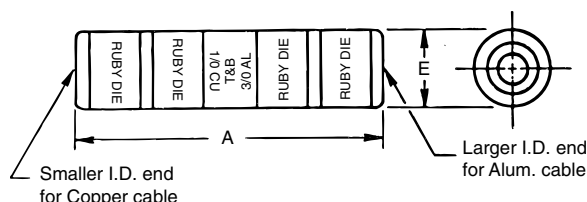
- **Material – High Conductivity Wrought Aluminum**
- **Finish – Electro-Tin Plated**

Aluminum Reducing Connectors for 600V 90°C Applications

Cat. No.	Cable Size		Dimensions (in.)		Color Key	Die Code
	Aluminum	Copper	A	E		
60905	8	10	1 ¹ / ₁₆	9 ¹ / ₃₂	Blue	24
60910	6	8	1 ⁵ / ₁₆	1 ¹ / ₃₂	Gray	29
60915	4	6	1 ³ / ₁₆	7 ¹ / ₁₆	Green	37
60925	1	3	2 ³ / ₈	1 ¹ / ₃₂	Gold	45
60930	1/0	2	2 ³ / ₈	5 ¹ / ₁₆	Tan	50
60935	2/0	1	2 ¹ / ₂	1 ¹ / ₁₆	Olive	54
60940	3/0	1/0	2 ¹ / ₁₆	3 ¹ / ₁₆	Ruby	60
60945	4/0	2/0	3 ³ / ₄	7 ¹ / ₈	White	66H
60950	250 kcmil	3/0	4	1 ⁵ / ₁₆	Red	71H
60955	300 kcmil	4/0	4 ¹ / ₁₆	1	Blue	76H
60960	350 kcmil	4/0	5 ¹ / ₁₆	1 ³ / ₃₂	Brown	87H
60965	400 kcmil	250 kcmil	5 ¹ / ₁₆	1 ¹ / ₃₂	Green	94H
60970	500 kcmil	350 kcmil	5 ¹ / ₁₆	1 ¹ / ₁₆	Pink	99H
60975	600 kcmil	400 kcmil	5 ⁵ / ₁₆	1 ¹ / ₃₂	Black	106H
60980	700 kcmil	500 kcmil	5 ⁹ / ₁₆	1 ¹ / ₁₆	Purple	112H
60985	750 kcmil	500 kcmil	5 ¹³ / ₁₆	1 ¹ / ₂	Yellow	115H

Selection table gives aluminum/copper equivalents for all sizes. Connectors are filled with a high temperature oxide inhibiting compound.

Installing Tools: TBM5(s) #10 → 4/0
 TBM6(s) #10 → 350 kcmil
 TBM8(s) #10 → 350 kcmil



Tooling: Pg. E78-E102
 Die Selector Chart: Pg. E107-E111

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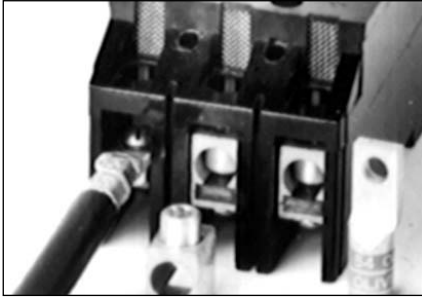
Color-Keyed®

Connectors for Aluminum Code Conductor



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Color-Keyed®



The compact size, one-hole aluminum Color-Keyed® lug is greatly reduced in size as compared to an aluminum lug of the same cable size. It can be directly substituted for the equipment mechanical lugs in most cases. Only seven dies handle all fourteen lugs. Factory filled with joint compound. Electro-tin plated. Supplied with insulating covers.

One Hole Aluminum Compact Size Equipment Lug*

T&B Cat. No.	Aluminum Cable Size	*Aluminum Range Taking	Bolt Hole (in.)	Dimensions (in.)					
				A	B	C	D	E	F
61102	#8		¼	1.33	.54	.50	.14	.37	.25
61107	#6		¼	1.33	.54	.50	.14	.37	.25
61112	#4		¼	1.33	.54	.50	.14	.37	.25
61116	#2		¼	1.75	.68	.55	.20	.48	.25
61122	#1		¼	1.75	.68	.55	.20	.48	.25
61130	1/0	#8-1/0	¾	2.00	.83	.64	.20	.57	.38
61136	2/0	#1-2/0	¾	2.00	.83	.64	.20	.57	.38
61142	3/0		¾	2.50	1.08	.78	.23	.70	.38
61148	4/0	2/0-4/0	¾	2.50	1.08	.78	.23	.70	.38
61156	250 kcmil		½	2.50	1.23	.98	.25	.85	.50
61162	300 kcmil	#4-300	½	2.50	1.23	.98	.25	.85	.50
61165	350 kcmil	250-350	½	3.25	1.23	1.20	.41	1.04	.56
61171	500 kcmil	2/0-500	½	3.25	1.23	1.20	.41	1.04	.56
61178	750 kcmil	500-750	¾	3.75	1.54	1.49	.41	1.33	.81

600V, 90°C

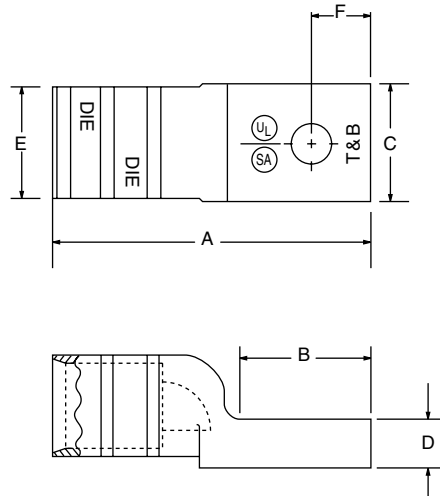
This lug with insulating covers for aluminum cables only.

This lug is reduced in size as compared to an aluminum lug of the same cable size. It can be substituted for the equipment mechanical lugs in most cases. Factory filled with joint compound. Electro-tin plated. Cover is Neoprene.

*For range taking capability, use TBM8-750/TBM8-750M1 Smart Tool.

Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111



Thomas & Betts

Color-Keyed®

Transformer Lug Kits for Aluminum Code Conductor



Kits include all the necessary range taking compression or mechanical type lugs and bolting hardware to connect to the designated transformers.



E

Color-Keyed®

Transformer Lug Kits – 600V, 90°C Applications

Transformer		Terminal Lugs			Kit Contents						Qty. Std. Pkg.	
KVA Sizes	Kit Cat. No.	AL Cable Range*	Color-Keyed® Compression Equipment Lugs	Qty.	Nuts	Qty.	Bolts	Qty.	Washers	Qty.		
Compression		#8-1/OAL #4-300 kcmil		8 4	1/4-20	8	1/4-20 x 1"	8	FLAT 1/4" SPRING 1/4"	8 8	1	
15-37½ 1Ø 15-45 3Ø	611CL-SK1			12	1/4-20	16	1/4-20 x 1" 1/4-20 x 2"	8 8	FLAT 1/4" SPRING 1/4"	16 16	1	
50-75 1Ø 75-112½ 3Ø	611CL-SK2	#4-300 kcmil AL		3 22	1/4-20	3 16	1/4-20 x 3/4" 3/8-16 x 2"	3 16	FLAT 1/4" SPRING 1/4" FLAT 3/8" SPRING 3/8"	3 3 16 16	1	
100-167 1Ø 150-300 3Ø	611CL-SK3	#4-300 kcmil AL #2/0-500MM AL		3 22	1/4-20	3 16	1/4-20 x 1" 3/8-16 x 2"	3 16	FLAT 1/4" SPRING 1/4" FLAT 3/8" SPRING 3/8"	3 3 16 16	1	
100-167 1Ø 150-300 3Ø	611CL-SK3-500	#4-300 kcmil AL #2/0-500 kcmil AL		3 22	1/4-20	3 16	1/4-20 x 1" 3/8-16 x 2"	3 16	FLAT 1/4" SPRING 1/4" FLAT 3/8" SPRING 3/8"	3 3 16 16	1	
500 3Ø	611CL-SK4	#500-750 kcmil AL		29	3/8-16	18	3/8-16 x 2"	18	FLAT 3/8" SPRING 3/8"	18 18	1	
Mechanical		#14-2 #6-250		**Ready Lugs Mechanical Lugs	8 4	1/4-20	8	1/4-20 x 3/4"	8	FLAT 1/4" SPRING 1/4"	8 8	1
15-37½ 1Ø 15-45 3Ø	622ML-SK1				12	1/4-20	16	1/4-20 x 1/4" 1/4-20 x 1 1/4"	8 8	FLAT 1/4" SPRING 1/4"	16 16	1
50-75 1Ø 75-112½ 3Ø	622ML-SK2	#6-250			3 22	1/4-20	3 16	1/4-20 x 3/4" 3/8-16 x 2"	3 16	FLAT 1/4 SPRING 1/4" FLAT 3/8" SPRING 3/8"	3 3 16 16	1
100-167 1Ø 150-300 3Ø	622ML-SK3	#6-250 350-800			29	3/8-16	18	3/8-16 x 2"	18	FLAT 3/8" SPRING 3/8"	18 18	1
500 3Ø	622ML-SK4	350-800										

* To assure proper range taking compression on Color-Keyed® equipment lugs use Smart® Tool (Cat. No. TBM8-750/TBM8-750M-1).

** Largest cable in lug can be applied with standard hex or hand tool.

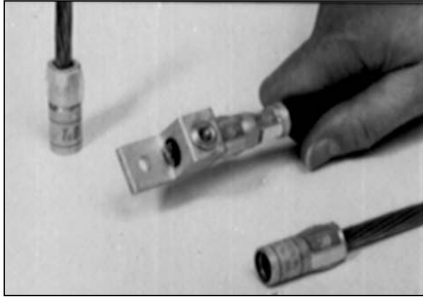
Tooling: Pg. E78-E102

Die Selector Chart: Pg. E107-E111

Thomas & Betts

Color-Keyed®

Pin Connectors for Aluminum/Copper Code Conductor



Color-Keyed®

This connector converts the aluminum cable into a two-size smaller copper pigtail. The connector upgrades a connection by eliminating cold flow and oxidation of aluminum, reduces an oversized aluminum cable, and allows installer to terminate aluminum into a "copper only" lug.

Material – copper wire/aluminum body

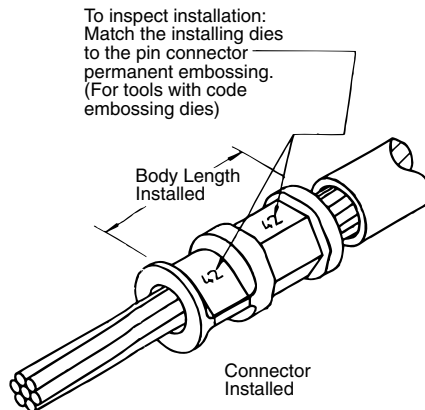
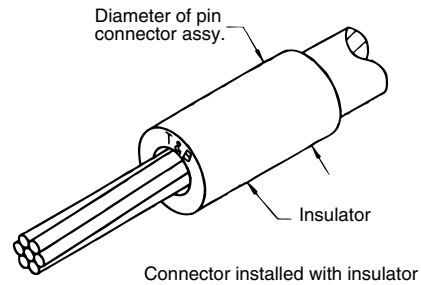
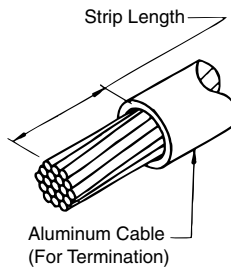
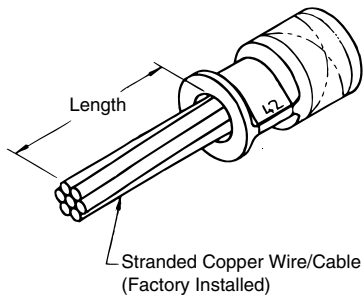
Finish – body is electro-tin plated wire barrel factory prefilled with joint compound

Insulator – Neoprene 600V dielectric rating

"Bi Pin"® Bi Metal Pin Connectors with Insulating Covers*

Cat.No.	Alum. Cable Size	Copper Wire Size	Body Length After Installing (in.)	Die Code No.	Color Key
61905A	8 AWG	10 AWG	1⅞	24	Blue
61910A	6 AWG	8 AWG	1⅞	24	Blue
61915A	4 AWG	6 AWG	1⅞	45	Gold
61920A	2 AWG	4 AWG	1⅞	45	Gold
61925A	1 AWG	3 AWG	1⅞	50	Orange
61930A	1/0 AWG	2 AWG	15⁄16	50	Orange
61935	2/0 AWG	1 AWG	1⅞	50	Orange
61940	3/0 AWG	1/0 AWG	2⅞	60	Ruby
61945	4/0 AWG	2/0 AWG	2⅞	60	Ruby
61950	250 kcmil	3/0 AWG	2⅞	66	White
61955	300 kcmil	4/0 AWG	2⅞	71H	Red
61960	350 kcmil	250 kcmil	2⅞	71H	Red
61963	400 kcmil	250 kcmil	3⅞	87H	Brown
61965	500 kcmil	350 kcmil	3⅞	87H	Brown
61970	600 kcmil	400 kcmil	3⅞	107H	Orange
61975	700-750 kcmil	500 kcmil	3⅞	107H	Orange

* 600V 90°C application
Hand Tools - Smart® Tool

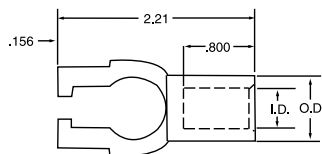


Color-Keyed®

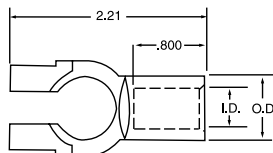
Heavy Duty Battery Connectors



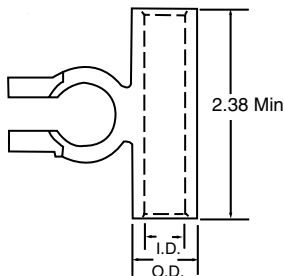
BAC10SUBT



BAC10SPBT



BAC10FNBT



Tin Plated Straight Battery Connectors

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Description	I.D.	O.D.	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC4SUBT	BAC4SUBT-C	4 Gauge	Straight Universal	.261	.430	5	100	Grey
BAC2SUBT	BAC2SUBT-C	2 Gauge	Straight Universal	.340	.550	5	100	Green
BAC1SUBT	BAC1SUBT-C	1 Gauge	Straight Universal	.340	.550	5	100	Pink
BAC10SUBT	BAC10SUBT-C	1/0 Gauge	Straight Universal	.455	.625	5	100	Black
BAC20SUBT	BAC20SUBT-C	2/0 Gauge	Straight Universal	.502	.676	5	100	Orange
BAC30SUBT	BAC30SUBT-C	3/0 Gauge	Straight Universal	.530	.730	5	100	Purple
BAC40SUBT	BAC40SUBT-C	4/0 Gauge	Straight Universal	.600	.844	5	100	Yellow
BAC4SPBT	BAC4SPBT-C	4 Gauge	Straight Positive	.261	.430	5	100	Grey
BAC4SNBT	BAC4SNBT-C	4 Gauge	Straight Negative	.261	.430	5	100	Grey
BAC2SPBT	BAC2SPBT-C	2 Gauge	Straight Positive	.340	.550	5	100	Green
BAC2SNBT	BAC2SNBT-C	2 Gauge	Straight Negative	.340	.550	5	100	Green
BAC1SPBT	BAC1SPBT-C	1 Gauge	Straight Positive	.340	.550	5	100	Pink
BAC1SNBT	BAC1SNBT-C	1 Gauge	Straight Negative	.340	.550	5	100	Pink
BAC10SPBT	BAC10SPBT-C	1/0 Gauge	Straight Positive	.455	.625	5	100	Black
BAC10SNBT	BAC10SNBT-C	1/0 Gauge	Straight Negative	.455	.625	5	100	Black
BAC20SPBT	BAC20SPBT-C	2/0 Gauge	Straight Positive	.502	.676	5	100	Orange
BAC20SNBT	BAC20SNBT-C	2/0 Gauge	Straight Negative	.502	.676	5	100	Orange
BAC30SPBT	BAC30SPBT-C	3/0 Gauge	Straight Positive	.530	.730	5	100	Purple
BAC30SNBT	BAC30SNBT-C	3/0 Gauge	Straight Negative	.530	.730	5	100	Purple
BAC40SPBT	BAC40SPBT-C	4/0 Gauge	Straight Positive	.600	.844	5	100	Yellow
BAC40SNBT	BAC40SNBT-C	4/0 Gauge	Straight Negative	.600	.844	5	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV, TBM5V, TBM8250, TBM8250S.

Tin Plated Flag Battery Connectors

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Description	I.D.	O.D.	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC10FU	BAC10FNBL	1/0 Gauge	Flag Universal	.455	.625	5	100	Black
BAC20FU	BAC20FNBL	2/0 Gauge	Flag Universal	.502	.676	5	100	Orange
BAC30FU	BAC30FNBL	3/0 Gauge	Flag Universal	.530	.730	5	100	Purple
BAC40FU	BAC40FNBL	4/0 Gauge	Flag Universal	.600	.844	5	100	Yellow
BAC10FPBT	BAC10FPBT-C	1/0 Gauge	Flag Positive	.455	.625	5	100	Black
BAC10FNBT	BAC10FNBT-C	1/0 Gauge	Flag Negative	.455	.625	5	100	Black
BAC20FPBT	BAC20FPBT-C	2/0 Gauge	Flag Positive	.502	.676	5	100	Orange
BAC20FNBT	BAC20FNBT-C	2/0 Gauge	Flag Negative	.502	.676	5	100	Orange
BAC30FPBT	BAC30FPBT-C	3/0 Gauge	Flag Positive	.530	.730	5	100	Purple
BAC30FNBT	BAC30FNBT-C	3/0 Gauge	Flag Negative	.530	.730	5	100	Purple
BAC40FPBT	BAC40FPBT-C	4/0 Gauge	Flag Positive	.600	.844	5	100	Yellow
BAC40FNBT	BAC40FNBT-C	4/0 Gauge	Flag Negative	.600	.844	5	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV, TBM5V, TBM8250, TBM8250S.

E

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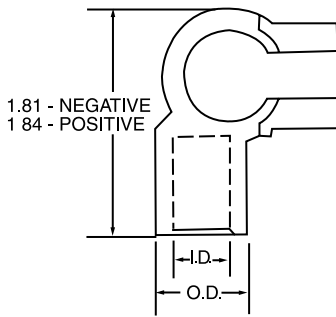
Color-Keyed® Heavy Duty Battery Connectors



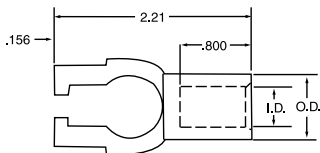
BAC10ERNBT



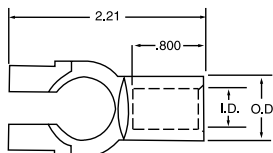
BAC10ELNBT



BAC10SUBL



BAC10SPBL



Tin Plated Elbow Battery Connectors

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Description	I.D.	O.D.	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC10ERNBT	BAC10ERNBT-C	1/0 Gauge	Right Elbow - Negative	.455	.625	5	100	Black
BAC10ERPBT	BAC10ERPBT-C	1/0 Gauge	Right Elbow - Positive	.455	.625	5	100	Black
BAC20ERNBT	BAC20ERNBT-C	2/0 Gauge	Right Elbow - Negative	.502	.676	5	100	Orange
BAC20ERPBT	BAC20ERPBT-C	2/0 Gauge	Right Elbow - Positive	.502	.676	5	100	Orange
BAC30ERNBT	BAC30ERNBT-C	3/0 Gauge	Right Elbow - Negative	.530	.730	5	100	Purple
BAC30ERPBT	BAC30ERPBT-C	3/0 Gauge	Right Elbow - Positive	.530	.730	5	100	Purple
BAC40ERNBT	BAC40ERNBT-C	4/0 Gauge	Right Elbow - Negative	.600	.844	5	100	Yellow
BAC40ERPBT	BAC40ERPBT-C	4/0 Gauge	Right Elbow - Positive	.600	.844	5	100	Yellow
BAC10ELNBT	BAC10ELNBT-C	1/0 Gauge	Left Elbow - Negative	.455	.625	5	100	Black
BAC10ELPBT	BAC10ELPBT-C	1/0 Gauge	Left Elbow - Positive	.455	.625	5	100	Black
BAC20ELNBT	BAC20ELNBT-C	2/0 Gauge	Left Elbow - Negative	.502	.676	5	100	Orange
BAC20ELPBT	BAC20ELPBT-C	2/0 Gauge	Left Elbow - Positive	.502	.676	5	100	Orange
BAC30ELNBT	BAC30ELNBT-C	3/0 Gauge	Left Elbow - Negative	.530	.730	5	100	Purple
BAC30ELPBT	BAC30ELPBT-C	3/0 Gauge	Left Elbow - Positive	.530	.730	5	100	Purple
BAC40ELNBT	BAC40ELNBT-C	4/0 Gauge	Left Elbow - Negative	.600	.844	5	100	Yellow
BAC40ELPBT	BAC40ELPBT-C	4/0 Gauge	Left Elbow - Positive	.600	.844	5	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV, TBM5V, TBM8250, TBM8250S.

Lead Plated Straight Battery Connectors

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Description	I.D.	O.D.	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC4SUBL	BAC4SUBL-C	4 Gauge	Straight Universal	.261	.430	5	100	Grey
BAC2SUBL	BAC2SUBL-C	2 Gauge	Straight Universal	.340	.550	5	100	Green
BAC1SUBL	BAC1SUBL-C	1 Gauge	Straight Universal	.340	.550	5	100	Pink
BAC10SUBL	BAC10SUBL-C	1/0 Gauge	Straight Universal	.455	.625	5	100	Black
BAC20SUBL	BAC20SUBL-C	2/0 Gauge	Straight Universal	.502	.676	5	100	Orange
BAC30SUBL	BAC30SUBL-C	3/0 Gauge	Straight Universal	.530	.730	5	100	Purple
BAC40SUBL	BAC40SUBL-C	4/0 Gauge	Straight Universal	.600	.844	5	100	Yellow
BAC4SPBL	BAC4SPBL-C	4 Gauge	Straight Positive	.261	.430	5	100	Grey
BAC4SNBL	BAC4SNBL-C	4 Gauge	Straight Negative	.261	.430	5	100	Grey
BAC2SPBL	BAC2SPBL-C	2 Gauge	Straight Positive	.340	.550	5	100	Green
BAC2SNBL	BAC2SNBL-C	2 Gauge	Straight Negative	.340	.550	5	100	Green
BAC1SPBL	BAC1SPBL-C	1 Gauge	Straight Positive	.340	.550	5	100	Pink
BAC1SNBL	BAC1SNBL-C	1 Gauge	Straight Negative	.340	.550	5	100	Pink
BAC10SPBL	BAC10SPBL-C	1/0 Gauge	Straight Positive	.455	.625	5	100	Black
BAC10SNBL	BAC10SNBL-C	1/0 Gauge	Straight Negative	.455	.625	5	100	Black
BAC20SPBL	BAC20SPBL-C	2/0 Gauge	Straight Positive	.502	.676	5	100	Orange
BAC20SNBL	BAC20SNBL-C	2/0 Gauge	Straight Negative	.502	.676	5	100	Orange
BAC30SPBL	BAC30SPBL-C	3/0 Gauge	Straight Positive	.530	.730	5	100	Purple
BAC30SNBL	BAC30SNBL-C	3/0 Gauge	Straight Negative	.530	.730	5	100	Purple
BAC40SPBL	BAC40SPBL-C	4/0 Gauge	Straight Positive	.600	.844	5	100	Yellow
BAC40SNBL	BAC40SNBL-C	4/0 Gauge	Straight Negative	.600	.844	5	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

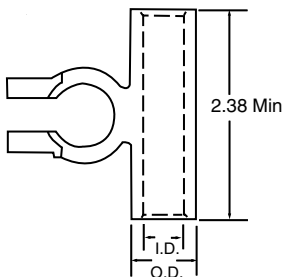
Installing Tools: TBM5-SV, TBM5V, TBM8250, TBM8250S.

Color-Keyed®

Heavy Duty Battery Connectors



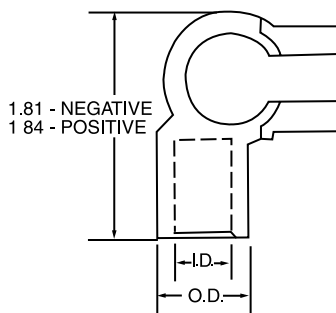
BAC10FNBL



BAC10ERNBL



BAC10ELNBL



Lead Plated Flag Battery Connectors

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Description	I.D.	O.D.	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC10FPBL	BAC10FPBL-C	1/0 Gauge	Flag Positive	.455	.625	5	100	Black
BAC10FNBL	BAC10FNBL-C	1/0 Gauge	Flag Negative	.455	.625	5	100	Black
BAC20FPBL	BAC20FPBL-C	2/0 Gauge	Flag Positive	.502	.676	5	100	Orange
BAC20FNBL	BAC20FNBL-C	2/0 Gauge	Flag Negative	.502	.676	5	100	Orange
BAC30FPBL	BAC30FPBL-C	3/0 Gauge	Flag Positive	.530	.730	5	100	Purple
BAC30FNBL	BAC30FNBL-C	3/0 Gauge	Flag Negative	.530	.730	5	100	Purple
BAC40FPBL	BAC40FPBL-C	4/0 Gauge	Flag Positive	.600	.844	5	100	Yellow
BAC40FNBL	BAC40FNBL-C	4/0 Gauge	Flag Negative	.600	.844	5	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.

Lead Plated Elbow Battery Connectors

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Description	I.D.	O.D.	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC10ERNBL	BAC10ERNBL-C	1/0 Gauge	Right Elbow – Negative	.455	.625	5	100	Black
BAC10ERPBL	BAC10ERPBL-C	1/0 Gauge	Right Elbow – Positive	.455	.625	5	100	Black
BAC20ERNBL	BAC20ERNBL-C	2/0 Gauge	Right Elbow – Negative	.502	.676	5	100	Orange
BAC20ERPBL	BAC20ERPBL-C	2/0 Gauge	Right Elbow – Positive	.502	.676	5	100	Orange
BAC30ERNBL	BAC30ERNBL-C	3/0 Gauge	Right Elbow – Negative	.530	.730	5	100	Purple
BAC30ERPBL	BAC30ERPBL-C	3/0 Gauge	Right Elbow – Positive	.530	.730	5	100	Purple
BAC40ERNBL	BAC40ERNBL-C	4/0 Gauge	Right Elbow – Negative	.600	.844	5	100	Yellow
BAC40ERPBL	BAC40ERPBL-C	4/0 Gauge	Right Elbow – Positive	.600	.844	5	100	Yellow
BAC10ELNBL	BAC10ELNBL-C	1/0 Gauge	Left Elbow – Negative	.455	.625	5	100	Black
BAC10ELPBL	BAC10ELPBL-C	1/0 Gauge	Left Elbow – Positive	.455	.625	5	100	Black
BAC20ELNBL	BAC20ELNBL-C	2/0 Gauge	Left Elbow – Negative	.502	.676	5	100	Orange
BAC20ELPBL	BAC20ELPBL-C	2/0 Gauge	Left Elbow – Positive	.502	.676	5	100	Orange
BAC30ELNBL	BAC30ELNBL-C	3/0 Gauge	Left Elbow – Negative	.530	.730	5	100	Purple
BAC30ELPBL	BAC30ELPBL-C	3/0 Gauge	Left Elbow – Positive	.530	.730	5	100	Purple
BAC40ELNBL	BAC40ELNBL-C	4/0 Gauge	Left Elbow – Negative	.600	.844	5	100	Yellow
BAC40ELPBL	BAC40ELPBL-C	4/0 Gauge	Left Elbow – Positive	.600	.844	5	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.

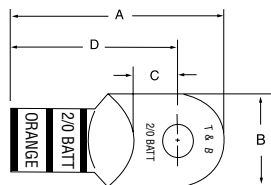
Color-Keyed®

Heavy Duty Battery Connectors

Color-Keyed®



BAL1038



Color-Keyed Starter Lugs – Tin Plated

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Stud Size	A ±.04	B ±.02	C ±.02	D ±.02	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAL414	273-31852-1	4 Gauge	1/4	140	52	40	115	10	100	Grey
BAL4516	273-31852-2	4 Gauge	5/16	145	61	36	114	10	100	Grey
BAL438	273-31852-3	4 Gauge	3/8	145	61	36	114	10	100	Grey
BAL2516		2 Gauge	5/16	159	69	40	125	10		Green
BAL238	273-31852-4	2 Gauge	3/8	178	67	55	140	10	100	Green
BAL212	273-31852-5	2 Gauge	1/2	177	76	54	140	10	100	Green
BAL1516		1 Gauge	5/16	183	76	49	150	10		Pink
BAL138	273-31852-6	1 Gauge	3/8	185	75	55	150	10	100	Pink
BAL112	273-31852-7	1 Gauge	1/2	220	75	75	170	10	100	Pink
BAL10516		1/0 Gauge	5/16	192	83	50	150	10		Black
BAL1038	273-31852-8	1/0 Gauge	3/8	193	83	55	155	10	100	Black
BAL1012	273-31852-9	1/0 Gauge	1/2	197	88	53	153	10	100	Black
BAL20516		2/0 Gauge	5/16	206	93	50	160	10		Orange
BAL2038	273-31852-10	2/0 Gauge	3/8	211	93	55	165	10	100	Orange
BAL2012	273-31852-11	2/0 Gauge	1/2	211	93	55	165	10	100	Orange
BAL30516		3/0 Gauge	5/16	216	103	55	165	10		Purple
BAL3038	273-31852-12	3/0 Gauge	3/8	203	103	55	165	10	100	Purple
BAL3012	273-31852-13	3/0 Gauge	1/2	235	103	75	185	10	100	Purple
BAL40516		4/0 Gauge	5/16	240	113	59	184	10		Yellow
BAL4038	273-31852-14	4/0 Gauge	3/8	228	112	55	190	10	100	Yellow
BAL4012	273-31852-15	4/0 Gauge	1/2	260	112	75	210	10	100	Yellow

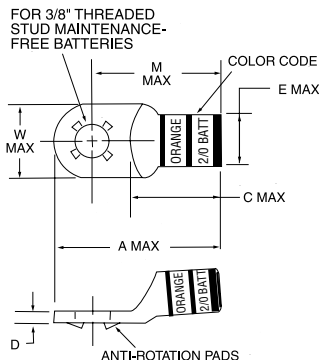
Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.



BAC1038



Stackable Battery Connector – Lead Plated

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	A ±.040	M ±.020	W ±.020	C ±.020	E ±.010	Stud Size	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAC438	273-31853-1	4 Gauge	1.455	1.143	.615	.750	.365	3/8	10	100	Grey
BAC238	273-31853-2	2 Gauge	1.775	1.400	.675	.850	.467	3/8	10	100	Green
BAC138	273-31853-3	1 Gauge	1.875	1.500	.750	.950	.521	3/8	10	100	Pink
BAC1038	273-31853-4	1/0 Gauge	1.925	1.550	.825	1.000	.571	3/8	10	100	Black
BAC2038	273-31853-5	2/0 Gauge	2.110	1.645	.930	1.100	.632	3/8	10	100	Orange
BAC3038	273-31853-6	3/0 Gauge	2.025	1.650	1.025	1.100	.701	3/8	10	100	Purple
BAC4038	273-31853-7	4/0 Gauge	2.275	1.900	1.125	1.350	.766	3/8	10	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.

Color-Keyed®

Heavy Duty Battery Connectors



BAS10

Splices (2 Way Connectors)

Cat. No.	Bulk Cat. No.	SAE Cable Size and Color	Pkg. Qty.	Bulk Pkg. Qty.	Color Key
BAS4	273-31852-16	4 Gauge	10	100	Grey
BAS2	273-31852-17	2 Gauge	10	100	Green
BAS1	273-31852-18	1 Gauge	10	100	Pink
BAS10	273-31852-19	1/0 Gauge	10	100	Black
BAS20	273-31852-20	2/0 Gauge	10	100	Orange
BAS30	273-31852-21	3/0 Gauge	10	100	Purple
BAS40	273-31852-22	4/0 Gauge	10	100	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.



BASY30

"Y" Splices

Cat. No.	SAE Cable Size	Color Code	Strip Length	Color Key
BASY20	2/0-(2)2	2/0 Gauge	¾"	Orange
BASY30	3/0-(2)1	3/0 Gauge	¾"	Purple
BASY40	4/0-(2)1/0	4/0 Gauge	7/8"	Yellow

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.

Insulating Cover: AC5X3.

E

Color-Keyed®

Color-Keyed®

Heavy Duty Battery Cables



Color-Keyed® Battery/Starter Cables

Thomas & Betts Color-Keyed® battery cable is engineered for optimum performance at both high and low temperatures. The abrasion resistant cable incorporates insulation and fine stranding that provides a safe and reliable connection.

- Made of fine flexible copper rope stranding
PVC jacket that conforms to SAE J1127 specifications.
- Layer of paper separates insulation from copper providing easy stripping with no stranding damage.
- Temperature rated for 80°C.
- Flexibility ideal for tight spaces and cold environments.
- Color-Keyed® markings for fast and accurate identification.
- Marked in 1ft. increments for easy measurements.



Heavy Duty Battery Cable

Thomas & Betts heavy duty battery cable is specially designed for demanding industrial and OEM requirements. The 105°C rated cable is UL recognized and conforms to SAE J1127 specifications, making it ideal for demanding situations.

- Heavier PVC Jacket that conforms to SAE J1127 specifications and is UL recognized.
- Color-Keyed® markings for fast and accurate identification.
- Marked in 1 ft. increments for easy measurements.
- Layer of paper separating insulation from copper providing easy stripping with no strand damage.
- 600V rated available in bulk only.

Color-Keyed®

Heavy Duty Battery Cables



BC10-25



BC10-25R

Battery Cables

Cat. No.	SAE Cable Size	Cable Length	Cable Color
BC4-25	4 Gauge	25 Ft. Coil	Black
BC2-25	2 Gauge	25 Ft. Coil	Black
BC1-25	1 Gauge	25 Ft. Coil	Black
BC10-25	1/0 Gauge	25 Ft. Coil	Black
BC20-25	2/0 Gauge	25 Ft. Coil	Black
BC30-25	3/0 Gauge	25 Ft. Coil	Black
BC40-25	4/0 Gauge	25 Ft. Coil	Black
BC4-25R	4 Gauge	25 Ft. Coil	Red
BC2-25R	2 Gauge	25 Ft. Coil	Red
BC1-25R	1 Gauge	25 Ft. Coil	Red
BC10-25R	1/0 Gauge	25 Ft. Coil	Red
BC20-25R	2/0 Gauge	25 Ft. Coil	Red
BC30-25R	3/0 Gauge	25 Ft. Coil	Red
BC40-25R	4/0 Gauge	25 Ft. Coil	Red
BC4-100	4 Gauge	100 Ft. Coil	Black
BC2-100	2 Gauge	100 Ft. Coil	Black
BC1-100	1 Gauge	100 Ft. Coil	Black
BC10-100	1/0 Gauge	100 Ft. Coil	Black
BC20-100	2/0 Gauge	100 Ft. Coil	Black
BC30-100	3/0 Gauge	100 Ft. Coil	Black
BC40-100	4/0 Gauge	100 Ft. Coil	Black
BC4-1000	4 Gauge	1000 Ft. Coil	Black
BC2-500	2 Gauge	500 Ft. Coil	Black
BC1-500	1 Gauge	500 Ft. Coil	Black
BC10-500	1/0 Gauge	500 Ft. Coil	Black
BC20-500	2/0 Gauge	500 Ft. Coil	Black
BC30-500	3/0 Gauge	500 Ft. Coil	Black
BC40-500	4/0 Gauge	500 Ft. Coil	Black
BC4-1000R	4 Gauge	1000 Ft. Coil	Red
BC2-500R	2 Gauge	500 Ft. Coil	Red
BC1-500R	1 Gauge	500 Ft. Coil	Red
BC10-500R	1/0 Gauge	500 Ft. Coil	Red
BC20-500R	2/0 Gauge	500 Ft. Coil	Red
BC30-500R	3/0 Gauge	500 Ft. Coil	Red
BC40-500R	4/0 Gauge	500 Ft. Coil	Red

Material: High conductivity copper.

Finish: Electro-tin plated.

Installing Tools: TBM5-SV or TBM5V.

E

Color-Keyed®

Color-Keyed®

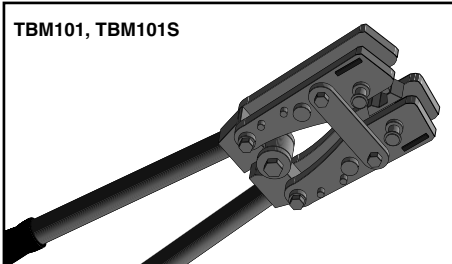
Tooling for Heavy Duty Battery Connectors & Conductor

Color-Keyed®

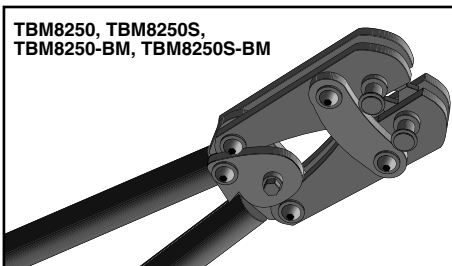
BCT840, BCT840S



TBM101, TBM101S



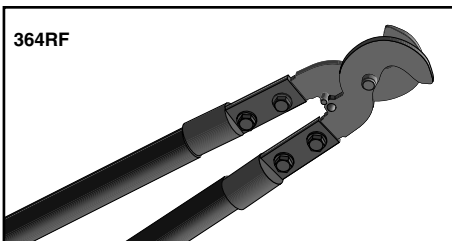
TBM8250, TBM8250S,
TBM8250-BM, TBM8250S-BM



TBM5-SV, TBM-5V



364RF



TBM250C, TBM250C-BM



Crimping Tools

Cat. No.	Description
BCT840 BCT840S	<ul style="list-style-type: none"> Adjustable die crimping tool for Color-Keyed® cast and tubular connectors. The single die is an integral part of the tool; no dies to lose or misplace. Available with Shure-Stake® mechanism to insure a complete crimp every time. (BCT840S) Crimps casting and tubular connectors ranging from 4 AWG to 4/0.
TBM101 TBM101S	<ul style="list-style-type: none"> Designed for medium crimps ranging from 8 AWG to 1 AWG. 18" handle is ideal for applications with limited space. Adjustable rotating dies are secured in the tool to increase efficiency and prevent lost dies. (TBM101S) Available with Shure-Stake® mechanism to insure a complete crimp every time.
TBM8250 TBM8250S TBM8250-BM TBM8250S-BM	<ul style="list-style-type: none"> Adjustable rotating dies are secured in the tool to increase efficiency and prevent lost dies. Available with Shure-Stake® mechanism to insure a complete crimp every time. Available in a bench mount style. (-BM)
TBM5V TBM5SV	<ul style="list-style-type: none"> Heavy Duty crimping tool including dies for 8AWG-4/0 battery connectors, lugs, and splices. Available with Shure-Stake® mechanism to insure a complete crimp every time. (TBM5S)

Cable Cutter

Cat. No.	Description
364RF	<ul style="list-style-type: none"> Cuts cable up to 500 kcmil code Fiberglass handles and carbon steel blades For copper and aluminum cable only
TBM250C TBM250C-BM	<ul style="list-style-type: none"> Cuts cable up to 250 kcmil For copper and aluminum cable only Available in a bench mount style (-BM)

Cable Stripper

Cat. No.	Description
BCS8-40	<ul style="list-style-type: none"> Cable stripper for cable 8 AWG-4/0 battery cable Replacement blade provided in the handle
BCS8-40B	<ul style="list-style-type: none"> Replacement blade



BCS8-40

Color-Keyed® Connector Tools



Installs lugs and splices over a wire range of #8 to #2 copper and #10 to #6 aluminum. Also installs up to the green color coded C-Taps and MD2 series motor disconnect.

A rotary color coded die wheel is rotated into position and each die has die code embossing. Requires two crimps per connector.

TBM25S

Cat. No.	Nest	Gauging Requirements
		Gauging Nom. – Tol.
TBM25S	Red	.183 ± .006
	Blue	.220 ± .008
	Gray	.273 ± .008
	Brown	.332 ± .008
	Green	.414 ± .008

Gauging Procedure

1. Rotate wheel to the desired nest.
2. Squeeze handles with 5 lbs. - 15 lbs. force.
3. Holding handles tightly closed, insert GO, NO-GO gauge into nest. GO gauge should enter freely. NO-GO gauge may enter partially, but not pass completely thru the length of the nest area.

	Conductor Size					
	#10 Red	#8 Red	#6 Blue	#4 Gray	#2 Brown	#1 Green
Copper Connectors						
One hole, short		54104	54134	54138	54107	
		54130	54105	54106	54142-TB	
		54131	54135	54139	54143-TB	
		54132	54136	54140	54145-TB	
Two hole, short		54204	54205	54206	54207	
Splice, short		54504	54505	54506	54507	
One hole, long		54930BE	54905BE	54906BE	54942BE	
Two hole, long		54850BE	54852BE	54854BE	54856BE	
Splice, long		54804	54805	54806	54807	
Cable Joints			54610	54615	54620	
Narrow Tongue				55112	55116	
C Taps		54705	54710	54715	54720	54725
Motor Disconnects		MD8 series	MD6 series	MD4 series	MD2 series	
Aluminum Connectors						
One hole	60096	60101	60106			
	60096	60102	60107			
	60099	60103	60108			
		60102	60109			
Splices	60500	60501	60507			
Bi Pins		61905A	61910A			
Equipment lugs		61102	61107			

TBM4S

Thomas & Betts introduces a dieless adjustable crimper for Color-Keyed® compression connectors. The TBM4S uses an adjustable indenter, eliminating the need for individual dies. The tool easily adjusts by turning the knurled adjusting wheel and aligning the pointer with the proper terminal size. Its wide range of #8 to 250 kcmil for copper lugs, and #8 to 4/0 for aluminum lugs, saves you the money of having to buy and maintain the numerous dies.

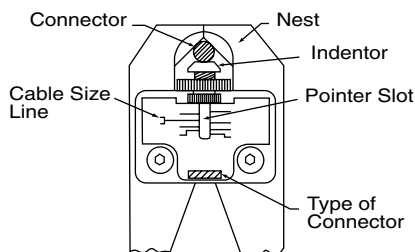
The tool is also equipped with the Shure-Stake® mechanism that insures a completed proper crimp each time.

Cat. No.	Weight	Length	Height	Width
TBM4S	5 lbs.	24¾"	3"	7/8"

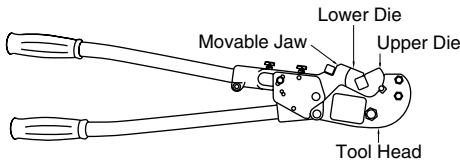
Specifications

Length: 24.75 in.
Weight: 5.0 lbs.
Handle Spread: 37 in.
Range: Copper: #8 to 250 kcmil
Alum: #8 to 4/0

Thomas & Betts

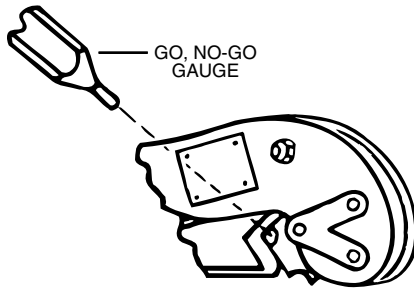


Color-Keyed[®] Connector Tools



Installs #8 through 250 kcmil copper connectors and #10 to 4/0 aluminum. Includes color coded installation dies and available with Shure-Stake[®] mechanism (TBM5S).

Installing dies are color coded and die code embossed.



TBM5 and TBM5S

Installs Copper Lugs from #8 to 250 kcmil, Aluminum from #10 to 4/0, C-Taps to 54750

Die Cat. No.	Die Cat. No.	Gauging Color	min. – max.
TBM5 TBM5S	13454	Red	.165-.181
		Blue	.181-.201
		Gray	.230-.251
		Brown	.260-.281
	13455	Green	.313-.335
		Pink	.351-.371
		Black	.383-.406
		Orange	.429-.454
	13456	Purple	.480-.503
		Yellow	.529-.562
	13457	Gold	.383-.406
		Tan	.429-.454
		Olive	.480-.503
		Ruby	.533-.553
	13458	White	.580-.604

Case not included.

295-31365M – Steel Carrying Case for TBM5(S)

295-31365 – Plastic Case.

Handle Spread Check

1. Insert upper die in place.
2. Close handles until lower die touches upper die.
3. Measure distance between ends of handles. Distance must be 11" min. and 14" max.

Tool Adjustment:

1. Loosen locking screw.
2. Turn adjusting screw clockwise to increase distance between handles; counterclockwise to decrease distance.
3. Tighten locking screw when the proper distance between handles is achieved.

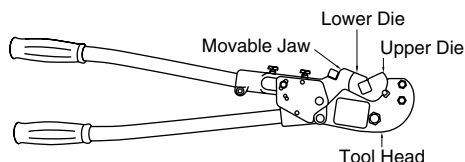
Gauging Procedure

1. Squeeze handles until jaws are fully closed.
2. Holding handles tightly closed, insert GO, NO-GO gauge into nest. GO gauge should enter freely. NO-GO should not enter.

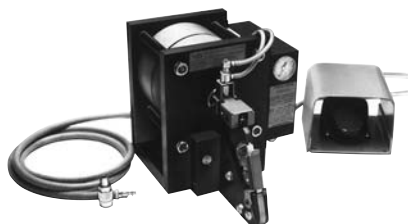
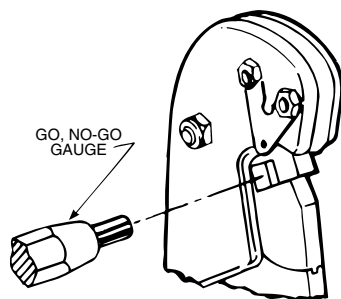
Notice: If tool fails any of the above tests, do not attempt repair or adjustment. Call T&B tool service center to arrange for repair service. Any change, modification or alteration of the tool or use by the customer in a manner other than as specified by T&B shall void all warranties express or implied and the customer shall, therefore, assume all liability for any damage or injury caused by said changed, modified or altered tool or improper usage of such tool.

Connector Type	Cat. No. Series	Cable Range	
		Aluminum	Copper
Lugs	60000-60100-60200 (AL)	#10-3/0	#8-250 kcmil
	54100-54200	–	
	54800-54900 (CU)		
Splices	60500-60900 (AL)	#10-3/0	#8-250 kcmil
	54500-54800 (CU)	–	
C-taps	54705 (CU)-54750	–	#10 Main w #10 Branch to 1/0 Main w 1/0 Branch
Wire Joints	54600 (CU)	–	19,590 Cir Mils to 244,020 Cir Mils

Color-Keyed® Connector Tools



Installs #8 thru 500 kcmil Color-Keyed® copper lugs, splices and taps and #10 thru 350 kcmil Color-Keyed® aluminum lugs and splices and 63105 through 63140 orange, green and blue "H" taps.



TBM6 and TBM6S

Cat. No.	Groove Color	Cat. No. Upper Die	Cat. No. Lower Die	Gauging min.-max.
	Red	13475	13477	.168-.177
	Blue	13475	13477	.181-.201
	Gray	13472	13476	.264-.276
	Brown	13474	13477	.307-.321
	Green	13474	13477	.345-.359
	Pink	13475	13477	.383-.398
	Black	13474	13477	.408-.423
	Orange	13474	13477	.469-.487
	Purple	13475	13477	.524-.539
	Yellow	13473	13476	.555-.575
	Gold	13474	13477	.408-.423
	Tan	13474	13477	.469-.487
	Olive	13475	13477	.524-.539
	Ruby	13473	13476	.555-.575
	White	13473	13476	.622-.637
	Red	13472	13476	.704-.720
	Blue	13472	13476	.704-.720

Tool comes complete with plastic carrying case and wire brush.

TBM6D-1 – Die kit for TBM6(S) Tool to install #8-500 kcmil copper lugs.

TBM6SMETAL – Comes with a steel carrying case.

13470 Green AL "H" Tap Die Set

13471 Blue AL "H" Tap Die Set

295-31365 – Plastic Carrying Case for TBM6(S)

295-31365M – Steel Carrying Case

Handle Spread Check

1. Insert upper and lower dies in place.
2. Close handles until lower die touches upper die.
3. Measure distance between ends of handles. Distance must be 11" min. and 14" max.

Tool Adjustment

1. Loosen locking screw.
2. Turn adjusting screw clockwise to increase distance between handles and counterclockwise to decrease distance.
3. Tighten locking screw when the proper distance between handles is achieved.

Gauging Procedure

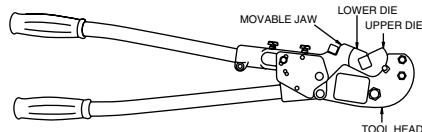
1. Squeeze handles until jaws are fully closed.
2. Holding handles tightly closed, insert GO, NO-GO gauge into nest. GO gauge should enter freely. NO-GO gauge should not enter.

Notice: If tool fails any of the above tests, do not attempt repair or adjustment. Call nearest T&B tool service center to arrange for repair service. Any change, modification or alteration of the tool or use by the customer in a manner other than as specified by T&B shall void all warranties express or implied and the customer shall, therefore, assume all liability for any damage or injury caused by said changed, modified or altered tool or improper usage of such tool.

Air Operated – Bench Mounted Tools

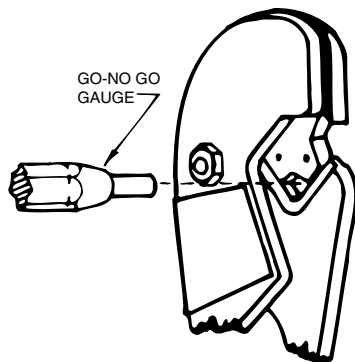
Cat. No.	Description	Std. Pkg.
25000	This compact heavy duty air tool installs Color-Keyed® copper and aluminum connectors on wire sizes from 8 AWG to 500 kcmil. To crimp a connector, you simply insert the stripped wire into the connector barrel, position it in the crimping nest, and depress the foot pedal actuating the crimping dies – it's that easy. Uses same dies as TBM6.	1

Color-Keyed® Connector Tools



Color-Keyed®

- Installs code copper lugs and connectors #8 through 500 kcmil.
- Installs aluminum lugs and connectors #10 through 350 kcmil.
- Installs all code copper compression joints and (small) "C" taps.
- Installs Blackburn® compression lugs and connectors.
- Comes complete with installing dies in a plastic carrying case; dies are color-coded and feature die-embossing for easy installation and inspection.
- TBM8S has Shure-Stake® feature which insures positive compression.



TBM8 and TBM8S

Cat. No.	Die Cat. No.	Die Groove Color	Gauging min.-max.
TBM8 TBM8S	13461	Red	.165-.181
		Blue	.181-.210
		Grey	.230-.251
		Brown	.260-.281
	13462	Green	.313-.335
		Pink	.351-.371
		Black	.383-.406
		Orange	.429-.454
	13463	Purple	.480-.503
		Yellow	.529-.562
	13464	Gold	.383-.406
		Tan	.429-.454
		Olive	.480-.503
		Ruby	.533-.553
	13465	White	.609-.632
	13466	Red	.653-.677
	13467	Blue	.686-.710
	13468	Brown	.855-.833

Tool comes complete with installing dies, plastic carrying case and wire brush.

295-31365 – Plastic Carrying Case for TBM8(S)

295-31365M – Steel Carrying Case for TBM8(S)

Handle Spread Check

1. Insert upper die in place.
2. Close handles until lower die touches upper die.
3. Measure distance between ends of handles. Distance must be 11" min. and 14" max.

Tool Adjustment

1. Loosen locking screw.
2. Turn adjusting screw clockwise to increase distance between handles; counterclockwise to decrease distance.
3. Tighten locking screw when the proper distance between handles is achieved.

Gauging Procedure

1. Squeeze handles until jaws are fully closed.
2. Holding handles tightly closed, insert GO, NO-GO gauge into nest. GO gauge should enter freely. NO-GO should not enter.

*Notice: If tool fails any of the above tests, do not attempt repair or adjustment. Call T&B tool service center to arrange for repair service. Any change, modification or alteration of the tool or use by the customer in a manner other than as specified by T&B shall void all warranties express or implied and the customer shall, therefore, assume all liability for any damage or injury caused by said changed, modified or altered tool or improper usage of such tool.

Connector Type	Cat. No. Series	Cable Range	
		Aluminum	Copper
Lugs	60000-60100-60200 (AL)	#10-350 KCMIL —	#8-500 KCMIL
	54100-54200		
	54800-54900 (CU)		
Splices	60500-60900 (AL)	#10-350 KCMIL —	#8-500 KCMIL
	54000-54500-54800 (CU)		
C-taps	54705-54750	—	#10 Main w/#10 Branch to 250 KCMIL w/1/0 Branch
Wire Joints	54600	—	19,590 Cir Mils to 244,020 Cir Mils

Thomas & Betts

Color-Keyed®

Connector Tools



Installs Color-Keyed® Connectors

- **Fiberglass Handles.**
- **Two Stage Pump for Rapid Advance.**
- **All Cat. No. 15500 Series die sets are compatible with 13100A & TBM14M Tool.**
- **Installs Copper Connectors to 900 kcmil and Aluminum Connectors to 750 kcmil.**
- **Installs copper "C" taps through #54775 and aluminum "H" taps through #63148**
- **Installs grid connectors through 500 kcmil and 5/8" rod.**
- **Uses standard T&B Color-Keyed® dies supplied with carrying case.**

14-Ton Manual Hydraulic Insulated Tool

Cat. No.

Description

TBM14M

Self-contained hydraulic crimping tool installs copper and aluminum Color-Keyed® connectors; copper and aluminum lugs and 2-way connectors to 900 kcmil; copper C-taps thru #54775, aluminum "H" taps thru #63148; grid connectors thru 250 kcmil, 5/8" rod; features rapid-ram advance mechanism for fast installation, and short fiberglass handles for confined work spaces; develops 14-ton compression force, and uses standard T&B shell dies, not included; includes carrying case.

Output Force	14 tons max.
Weight, less case	15.4 lbs.
Maximum Length	24.4 in.
Swivel "C" Head	rotates 180°

Installation Range for Color-Keyed® Connectors

	Lugs	Splices
Copper	No. 8 AWG to 900 kcmil	No. 8 AWG to 900 kcmil
Aluminum	No. 10 AWG to 750 kcmil	No. 10 AWG to 750 kcmil

TBM14MG – Gauge and Testing dies in carrying case.

Die Table

Cat. No.	Die Code	Color	Copper Size	AL Size	*C-Taps
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Color-Keyed®

Color-Keyed[®] SMART[®] Connector Tools

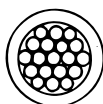
Color-Keyed[®]



TBM8-750M-1



TBM8-750



Wire Barrel
Before
Compression



After Compression – the
connector and conductor
are formed into a solid
mass.

Rugged Hydraulic Tool Gives You Uniform Dependable Connections – Lower Installed Costs

The new SMART[®] tools are designed to give you uniform, high quality compression connections over a wide connector range. It easily installs copper and aluminum lugs and two-way connectors from #8 AWG through 750 kcmil – without changing dies. For the specified wire range, all you need is one hydraulic tool and one set of dies. You always have the right die size and virtually eliminate any selection mistakes.

Productivity will be greatly improved especially when installing a variety of connector sizes or types. Initial investment is low and requires only a minimum tool/die inventory. These benefits add up to lower installed cost.

SMART[®] TOOLS From T&B – Crimps 17 Color-Keyed[®] Connector Sizes with No Die Changes

How It Works

The tool, which operates from a 9800 psi hydraulic pump, has an engineered, built-in “intelligence.”* The tool will sense the connector barrel diameter and apply just the right amount of compression force. This eliminates virtually all air spaces and forms the connector and conductor strands into a solid mass resulting in a high quality, low resistance connection. In addition, the tool clearly embosses “T&B” with each compression for positive verification that the correct tool was used.

* System Novopress

“C”-Type Yoke Offers Installation Convenience

The “C”-type yoke configuration and the large die spacing allows the tool to slip directly over the connector. This means added speed and convenience when installing 2-way connectors, especially in confined spaces.

Rugged Construction

These ruggedly built tools are made from forged steel, and are well suited for both field and bench work. Their C-shaped heads, light weight, and compact size make it easy to use just about anywhere.

Specifications

TBM8-750 Remote Head tool

Weight: 9 lbs. (approx.)
Height: 14½ in.
Width: 4½ in.
Depth: 2⅝ in.
Wire Range: #8 AWG through 750 kcmil
copper and aluminum
Operating Pressure: 9800 psi
Output Pressure: 12 tons
Coupler: Pioneer, female

TBM8-750M-1 Self-Contained Tool

Weight: 13 lbs. (approx.)
Height: 21½ in.
Width: 4½ in.
Wire Range: #8 AWG through 750 kcmil
copper and aluminum
Operating Pressure: 9800 psi
Output Pressure: 12 tons

SMART[®] TOOL Range Taking Features

The following size copper Color-Keyed[®] lugs and 2-way connectors, when crimped with the SMART[®] TOOLS, Cat Nos. TBM8-750, TBM8-750-M1 produce these range taking capabilities:

Copper		Aluminum	
Standard Wire Size	Range Taking	Standard Wire Size	Range Taking
1/0-AWG	#6-1/0 AWG	1/0-AWG	#6-1/0 AWG
2/0-AWG	#1-2/0 AWG	2/0-AWG	#1-2/0 AWG
4/0-AWG	#2-4/0 AWG	4/0-AWG	#2-4/0 AWG
300 kcmil	#2/0-300 kcmil	300 kcmil	#2/0-300 kcmil
350 kcmil	250-350 kcmil	350 kcmil	250-350 kcmil
500 kcmil	250-500 kcmil	500 kcmil	4/0-500 kcmil
750 kcmil	500-750 kcmil	750 kcmil	500-750 kcmil

Thomas & Betts

Color-Keyed® SMART® Connector Tools



TBM8-750 Tool

Color-Keyed® #8 AWG through 750 kcmil connector sizes with no die changes installs copper and aluminum lugs and two-way connectors from #8 AWG through 750 kcmil.

TBM8-750

- Installs copper and aluminum lugs and connectors through 750 kcmil.
- No die change required for Tubular Lugs.
- Dies available to install "H" taps through #63150 and copper "C" taps through #54775.



TBM8-750M-1

TBM8-750M-1

**#8 AWG through 750 kcmil
Copper and Aluminum**

Supplied with steel carrying case.

- Installs copper and aluminum lugs and connectors to 750 kcmil.
- No die change required for Tubular Lugs.
- Dies available to install "H" taps through #63150 copper "C" taps through 54775.
- Supplied with metal carrying case.

Hydraulic Smart® Tool

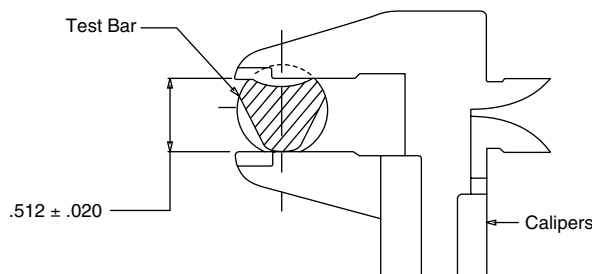
Cat. No.	Description
TBM8-750	Remote Head installs Color-Keyed® #8 AWG through 750 kcmil aluminum & copper lugs, 2 way connectors, and "D" through "M" bare STA-KON® terminals with no die change out; the only additional die sets required are for "H" and "C" type compression taps; the new tool weighs only 9 lbs. and is 13 in. long; operates on standard 10,000psi electric and manual pumps. U.L. and CSA Listed for T&B Color-Keyed® connectors and uninsulated STA-KON® terminals.
TBM8-750M-1	Self-contained head installs same connectors as above tool; "C" Head swivels 90° for easy crimp positioning in confined spaces.
TBM8-750G	Field compression gauging kit for both above tools.
TBM8-750C20	Die set installs Cat. No. 54720 copper "C" taps.
TBM8-750C2530	Die set installs Cat. Nos. 54735, 54730 copper "C" taps.
TBM8-750C3540	Die set installs Cat. Nos. 54735, 54740 copper "C" taps.
TBM8-750C4550	Die set installs Cat. Nos. 54745, 54750 copper "C" taps.
TBM8-750CL	Die set installs Cat. No. 54755 through 54775 copper "C" taps.
TBM8-750HG	Die set installs Cat. No. 63110 through 63118 and 63125 "H" taps.
TBM8-750HB	Die set installs Cat. No. 63140 through 63148 "H" taps.
297-31804-6	TBM8-750 with insulated head
297-31804-4	TBM8-750M-1 with insulated head

TBM8-750
Remote Head tool
Weight: 9 pounds (approx.)
Height: 14½ in.
Width: 4¾ in.
Depth: 2¾ in.
Wire Range: #8 AWG through 750 kcmil copper and aluminum
Operating Pressure: 9800 psi
Output Pressure: 12 tons

TBM8-750M-1
Self-Contained tool
Weight: 13 pounds (approx.)
Height: 21½ in.
Width: 4¾ in.
Wire Range: #8 AWG through 750 kcmil copper and aluminum
Operating Pressure: 9800 psi
Output Pressure: 12 tons

Gauging Procedure

1. Insert the test bar in the die opening; allow ¼" from the end of the bar or the last crimp to prevent poor crimping.
2. Start the pump, holding pressure on the tool until full pressure is shown on the gauge.
3. Release the pressure.
4. Measure the crimped area of the test bar with a Vernier Caliper as shown in the sketch.
5. Accept the tool if the crimped bar is within the listed dimension and no leaks or functional problems are observed.
6. Tools not crimping the test bar to specification, that leak or have a functional problem should be returned to T&B Tool Service.



Color-Keyed® Installation Tools



Dieless Tool

Abstract to Reality!

No longer a dream or a wish for one tool without worrying about which die to use or "Where The Dies Are"! The TBMSHX-1 will crimp all your needs through 750MCM Copper and here's the miracle... a "Hex Crimp" with no flash!

Order this tool today and test the results. Use your existing hydraulic system or if you need portability, try it with our new Pumpac II and you will find an unbeatable package.

Refer to the specifications and product information below for requesting this truly amazing tool. Our sales persons will also be happy to demonstrate the tool and the amazing results for making the best connections.

Unbeatable Package!

Combined with our new Pumpac II, T&B'S newest hydraulic pump, this tool can go anywhere you need it.

The new Pumpac battery-powered hydraulic pumps come with improved power capabilities. Rated 10,000 PSI it can power any remote hydraulic tools. The battery power source delivers over a hundred crimps for large cable sizes, and both will charge in less than an hour.

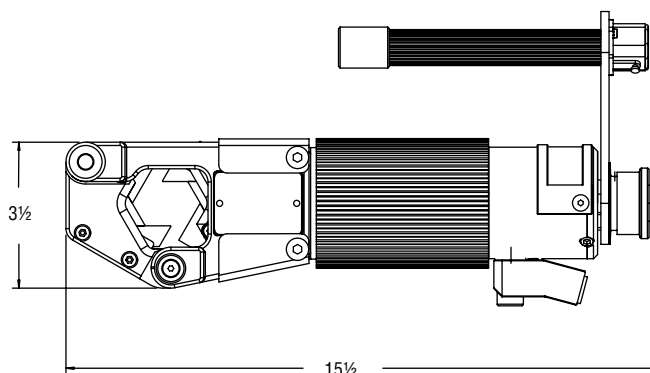
Combine the latest in tool technology and be the envy of your competitors! The features will keep you ahead with efficient and low cost installations.

Weight: 18.75 lbs.
Operating Pressure: 10,000 PSI
Force: 12 Tons

Tubular Connector Range:
Copper – #8 AWG through 750 kcmil
Aluminum – #12 AWG through 600 kcmil

Die Code / Color

21 / Red
24 / Blue
29 / Grey
33 / Brown
37 / Green
42 / Pink
45 / Black & Gold
50 / Orange & Tan
54 / Purple & Olive
60 / Ruby
66 / White
71 / Red
76 / Blue
80 / No Color
87 / Brown
94 / Green
99 / Pink
106 / Black



Color-Keyed® Dieless Tool

Cat. No.

Crimp Range

TBMSHX-1

#8 AWG through 750 kcmil CU / #12 AWG through 600 kcmil AL

Tool Replaces These Aluminum Common OD Die Codes

Code	Die References	Wire Range
1	5/8, BG, TU, G, PEACH, B58CS, U-BG, 52	2/0 STR - #8 STR
2	840, K840, 845, TX, 76, 249, EEI-11A, CSA24	4/0 ACSR-#6 AWG
3	B840EA, 1-1/8, 96H, 655, 321, CSA26, EEI-13A	500 CPT-3/0 STR.
4	106H, B20AH, 318, 1-5-16, EEI-14A, CSA28	750 CPT-397.5 18/1

Thomas & Betts

Color-Keyed®

Battpac® Battery Powered Compression and Cutting Tools

Battpac® Battery Powered Tools

Designed for years of use, T&B quality Battpac® tools are time-tested, rugged, and dependable compression tools. Battpac® products are all essential component and commercial, and industrial connector and grounding installations.

- Hermetically Sealed Unit (Motor not exposed to environment/elements).
- Special 14.4V Izumi Battery (fits all tools).
- Broadest Family of Battery Tools.
- Robust Tool Design.
- Insulated Crimp Heads.
- 15-20 Minute Battery Recharge.
- 5 Year Warranty (Includes Battery)



Standard Battpac® Kit Includes:

- 1 battery powered tool
- 1 carrying strap
- 1 carrying case
- 2 CRCTBP batteries
- 1 CRCTQC 15 minute AC charger

6-Ton Battery Powered Compression Tool

The TBM6BSCR is designed to crimp commonly used lugs, splices, service entrance connectors, H and C-taps. It can be easily carried and used in limited access areas because of its swivel head and compact design. The unique open yoke is also advantageous for C-tap, H-tap and splicing applications. Its six-ton output is equal to any comparable hand-held, hydraulic compression tool and far exceeds any mechanical crimper.

A built-in factory pre-set 10,000 psi by-pass cartridge assures a complete compression every time. Always consult Thomas & Betts for proper die/connector combinations or read the information on the connector package. Accepts std. T&B six-ton dies and Blackburn® OD58 series dies. Will not do splices over 350 MCM.

Cat. No.	Description
TBM6BSCR	6-Ton Battery Powered Compression Tool.
Specifications: Output 6 ton Weight 8 lbs. w/battery Size 13" x 12" x 3"	
Connector range: Lugs & splices #8-600 kcmil CU #10-400 kcmil AL H - taps 4/0 C - taps 54705 through 54750	

NOTE: When ordering the "Smart®" battery add suffix "- SM" (Example: TBM6BSCR - SM).

TBM6MG - Jaw Pressure Verification Gauge.



Standard Battpac® Kit Includes:

- 1 battery powered tool
- 1 carrying strap
- 1 carrying case
- 2 CRCTBP batteries
- 1 CH-3TR 15 minute AC charger

14-Ton Battery Powered Compression Tool

The TBM14BSCR is a self-contained battery operated 14-ton compression tool. The large jaw opening is 1.65" which accepts mid-span copper and aluminum splices and cables up to 750 kcmil. When the splices are compressed they can be removed through the large jaw. This tool accepts T&B and Blackburn shell type dies.

A built-in, pre-set 10,000 psi bypass cartridge will audibly kick out when the 14-ton pressure is achieved.

Portability and handling is easy because the TBM14BSCR system is self contained and compact. There is no tool set-up time or extra power source needed. Makes splicing a breeze. And with one finger trigger operation fatigue and muscle related strains are nearly eliminated. Safer work habits result from using these tools.

Cat. No.	Description
TBM14BSCR	14-Ton Battery Powered Compression Tool
Specifications: Output 14 ton Weight 20 lbs. w/battery Size 19" L x 3.5"W x 10.5"H Jaw opening 1.65"	
Connector range: Lugs & splices 900 kcmil CU, 750 kcmil AL	

NOTE: When ordering the "Smart®" battery add suffix "- SM" (Example: TBM6BSCR - SM)

TBM14MG - Jaw Pressure Verification Gauge.

Thomas & Betts

Color-Keyed®**Battpac® Battery Powered Compression and Cutting Tools**

Color-Keyed®

Standard Battpac® Kit Includes:

- 1 battery powered tool**
- 1 carrying strap**
- 1 carrying case**
- 2 CRCTBP batteries**
- 1 CH-3TR 15 minute AC charger**

15-Ton Battery Powered Compression Tool

You've got the power with this self contained 15-ton tool. This exclusive state of the art tool features superior hydraulics with an internally sealed oil circuit, eliminating any need for refilling. Its high grade forged steel head includes a rotation of 180 degrees, a rapid two stage advance compression system, and accepts cables up to 1000 kcmil copper and aluminum.

The TBM15BSCR's entire circuitry is solid state, and the pumping circuit is designed with high and low stages.

The high capacity battery offers 60% more compression cycles than regular batteries and can be recharged in 25 minutes or less. The TBM15BSCR will accept all T&B dies.

Cat. No.	Description
TBM15BSCR	15-Ton Battery Powered Compression Tool.

Specifications:

Output 15 ton
 Weight 23.75 lbs. w/battery
 Size 21" L x 3.5"W x 11"H
 Warranty 2 years Tool & Battery

Connector range:

Up to 1500 kcmil CU, 1000 AL

NOTE: When ordering the "Smart®" battery add suffix "- SM" (Example: TBM58BSCT - SM).

TBM15MG – Jaw Pressure Verification Gauge.

12-Ton Dieless Battery Powered Compression Tool

This is a self-contained 12-ton compression tool that features a unique dieless compression system. Using commonly found 14.4V battery, the TBM8-750BSCR puts portability and convenience of a dieless compression tool in a lightweight, economical package. 8 AWG – 750 kcmil range.

12-Ton Dieless Compression Tool

Cat. No.	Description
TBM8-750BSCR	Battpac® LT 12-Ton Compression Tool. Includes carrying case, charger, two-batteries, carry strap (no dies).

Specifications:

Application Range: 8 AWG – 750 kcmil Copper Connectors, 750 kcmil Aluminum
 Crimping Force: 12-Ton Compression Tool
 Rated Operating Pressure: 10,000 PSI
 Batteries: 14.4V Batteries
 Construction: Open Forged Steel Head
 Dies: Die-less Crimp
 Verification: Positive Verification
 Weight: 9 Lbs. with Battery
 U.L. Listed



Color-Keyed®**Battpac® Battery Powered Compression and Cutting Tools****TBM54BSCT & TBM54BSCTS****SPECIFICATIONS****CUTTING TOOLS:**

	TBM54BSCTS	TBM54BSCT
Drive Unit:	14.4V DC Motor	14.4V DC Motor
Dimensions:	16" L x 4" W x 4.5" H	16" L x 4" W x 4.5" H
Weight:	7.2 lbs. with battery	7.2 lbs. with battery
Capacities:	750 kcmil CU 2½" O.D. AL ACSR - 636 kcmil	1500 kcmil CU 2½" O.D. AL ACSR - DO NOT CUT

BATTERY CARTRIDGE: (CRCTBP)

Battery Type:	Sealed Nickel Cadmium
Voltage:	14.4V DC
Rated Current:	1.9Ah
Dimensions:	3.5" L x 2.7" W x 5.3" H
Weight:	1.6 lbs

BATTERY CHARGER: (CRCTQC)

Input Voltage:	120V AC Single Phase
Charging Capacity:	20 VA
Charging Time:	15 min. CRCTBP & CRCTBPI 45 min. CRCTBPEI
Dimensions:	7.5" L x 3.7" W x 3.5" H
Weight:	4 lbs

OPTIONAL ACCESSORIES:

Battery Pack:	CRCTBPEI
Battery Cartridge:	CRCTBPI or CRCTBP
DC Charger:	CRCTDC

FEATURES

- Fully automatic, self-contained power tool.
- Removable battery cartridge - simply change the cartridge for continuous use.
- One handed operation - control blade advancement and retraction with one hand.

GUIDE TO CUTTING CYCLES

This guide indicates the number of cutting cycles that the TBM54BSCT and TBM54BSCTS can be expected to perform when the battery is fully charged. These figures are approximate and will vary according to the charging and other operating conditions, such as temperature, humidity, and battery condition.

TOOL	CONDUCTOR	CRCTBPI & CRCTBP	CRCTPBEI
TBM54BSCTS	750 kcmil CU	35	105
	636 ACSR	50	150
TBM54BSCT	1000 kcmil CU	45	135
	1500 kcmil 2½" Aluminum	30	90

E**Color-Keyed®**

Standard Battpac® Kit Includes:
1 battery powered tool
1 carrying strap
1 carrying case
2 CRCTBP batteries
1 CRCTQC 15 minute AC charger

Battpac® Powered Cutter

The TBM58BSCT is designed to cut ACSR AL & CU cables up to 1.50", regular guy wires and ground rods up to 5/8". We also offer our smaller TBM40BSCT tool.

Our Battpac® cut is ideal for aerial bucket work and trench operations.

This cutter is made for one-handed operation. Simply remove the pin latch, place over cable, reinsert pin and cut. A built-in by-pass will pop off if the material is beyond the cutters capacity. It is not recommended to cut hardened steel because blades will become damaged.

Cat. No.	Description		
TBM58BSCT	Battery Powered Cutter		
TBM40BSCT	Battery Powered Cutter, smaller version.		
Specifications for TBM58BSCT		Cutting capacities:	
Output	6 ton	Soft steel bolts	TBM58BSCT
Weight	14 lbs. w/battery	Rebar & ground rod	TBM40BSCT
Size	17" x 12" x 3"	ACSR	
Specifications for TBM40BSCT		CU & AL strands	
Output	6 ton	Standard guy wire	
Weight	9.5 lbs. w/battery	Wire rope	
Size	12" x 13" x 3"	EHS guy wire	

NOTE: When ordering the "Smart®" battery add suffix "- SM" (Example: TBM58BSCT - SM).

Thomas & Betts

Color-Keyed®**Battpac® Battery Powered Compression and Cutting Tools**

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**Standard and “Smart” Replacement Battery**

The CRCTBP is a standard replacement battery. The battery's life expectancy is approximately 600 recharges. Cycles per charge for both batteries will vary depending on the type and size of the material being cut or compressed.

The CRCTBPI “Smart® battery” is the same as the standard CRCTBP with the addition of an L.E.D. display that will indicate its power capabilities for you. The 14.4 volt battery is interchangeable with all T&B Battpac® products. It is self evaluating which allows the user to monitor the status of the battery's life and power between charges.

The battery's capacity is shown with an L.E.D. indicator of five red lights on its side. Different light patterns will give the user specific battery information. For instance, when the bottom red light begins to flash, it is a warning that only 10% of the battery power remains and it must be recharged soon. You'll know that the battery is fully charged if you push the “check” button and all five lights turn on.

RECYCLING: T&B will gladly accept any used Ni-Cd batteries for recycling. Please call for more details.

Cat. No.	Description
CRCTBP	Standard Replacement Battery
CRCTBPI	Smart Replacement Battery
CRCTBPEI	Deep Cycle, Extended Life Battery Pack

Standard Replacement Battery 1 Hour Battery Charger

It is a one hour standard battery charger for CRCTBP and CRCTBPI Battpac® batteries. For CRCTBPEI, charge time is three hours.

Cat. No.	Description
CRCTCH	1 Hour Battery Charger

Standard 15 Minute Quick Charge

The newest addition to the Battpac® charger family is the model CRCTQC. It is a 15 minute quick charge device that is designed to charge the CRCTBP and CRCTBPI cartridges. It will also charge the CRCTBPEI in 45 minutes.

Cat. No.	Description
CRCTQC	Standard 15 Minute Quick Charge

12 Volt DC Charger

The CRCTDC is a 12 volt DC charger with charge times of one hour for the CRCTBP and CRCTBPI and three hours for the CRCTBPEI. It can be plugged directly into an automotive cigarette lighter and has a built in overload fuse protector.

Cat. No.	Description
CRCTDC	12-Volt DC Charger
CRCTAD	AC Adapter for Charger CRCTDC

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Battpac® Battery Powered Compression and Cutting Tools

Battpac® LT Powered Compression Tool

Battpac® LT tools put the power in your hand, when and where you need it most. You're also left with a free hand to control the operation and position the connector with greater ease. Best of all, Battpac® LT tools are affordably priced to make it comfortable on your wallet as well.



T&B's Battpac® LT tools include these prominent features:

- Ventilated, Air Cooled.
- Industry Standard Mikita 14.4V Battery (available at retail stores) (fits all tools except LT pumpac which is 24V Mikita).
- Distinctive Ergonomic Design.
- Reduced Weight.
- Lower Cost.
- Un-insulated Crimp Heads.
- 1 Hour Battery Recharge.
- 1 Year Warranty (Includes Battery).

Battpac® LT 6-Ton Ordering Information

Cat. No.	Description
TBM62BSCR	Battpac® LT Tool Kit. Includes tool, two batteries, charger, shoulder strap, wrist strap, carrying case (no dies).
TBM6240BSCR	Complete Battpac® LT Tool Kit with dies TBM6221 through TBM6254.
TBM62500BSCR	Complete Battpac® LT Tool Kit with dies TBM6221 through TBM6287.

Specifications:

Application Range:	Suitable for installing electrical compression connectors for conductors up to 500 kcmil CU, 350 AL.
Crimping Force:	6 tons
Rated Operating Pressure:	8,700 PSI
Dimensions:	
Length:	11 1/4"
Width:	3 3/4"
Height:	11 7/8"
Weight (with battery)	8 lbs.
Motor	14.4 V
Battery (DC)	14.4V – 2.0 Ah
Safety:	Unit is provided with maximum pressure relief valve.

NEW



Battpac® LT 14-Ton Ordering Information

Cat. No.	Description
BPLT14BSCR	Battpac® LT 14-Ton Compression Tool. Includes carrying case, charger, two-batteries, carry strap.

Specifications:

Application Range:	8 AWG – 900 kcmil Copper Connectors, 750 kcmil Aluminum
Crimping Force:	14-Ton Compression Tool
Rated Operating Pressure:	10,000 PSI
Batteries:	14.4V Batteries
Construction:	Open Forged Steel Head
Dies:	Dies are interchangeable with TBM14M Mechanical Hydraulic Tool
Weight:	15.4 Lbs. with Battery
U.L. Listed	

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Battpac® Battery Powered Compression and Cutting Tools

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Battpac® LT 8-Ton Ordering Information

Cat. No.	Description
BPLT58BSCT	Battpac® LT 8-Ton Cutting Tool. Includes carrying case, charger, two-batteries, carry strap (no dies).

Specifications:

Crimping Force:	8-Ton Cutting Tool
Batteries:	14.4V Batteries
Construction:	Forged Steel Head and Cutter Blades 2 Forward Speeds Cuts Copper, Aluminum, Steel, Rebar, ACSR, Wire Rope
Weight:	17.2 Lbs. with Battery
Construction:	
Max. Dia. Cut:	1.5 in.

NEW



Battpac® LT 6-Ton Ordering Information

Cat. No.	Description
BPLT40BSCT	Battpac® LT 6-Ton Cutting Tool. Includes carrying case, charger, two-batteries, carry strap (no dies).

Specifications:

Crimping Force:	6-Ton Cutting Tool
Batteries:	14.4V Batteries
Construction:	Forged Steel Head and Cutter Blades Cuts Copper, Aluminum, Steel, Rebar, ACSR, Wire Rope
Weight:	9.5Lbs. with Battery
Construction:	
Max. Dia. Cut:	.75 in.

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Battpac® Battery Powered Compression and Cutting Tools

NEW



Battpac® LT Fast Cycle Cutting Tool Ordering Information

Cat. No.	Description
BPLT54BSCT	Battpac® LT Fast Cycle Cutting Tool. Includes carrying case, charger, two-batteries, carry strap (no dies).

Specifications:

Crimping Force:	Fast Cycle Cutting Tool
Batteries:	6.0V Batteries
Construction:	Cuts Copper, Aluminum
Weight:	only 4.8 Lbs.
Max. Dia. Cut:	2½ in.; 750 kcmil Copper

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Battpac® LT 35-Ton Hydraulic Steel Punch Ordering Information

Cat. No.	Description
TBMHP-1	Battpac® LT 35-Ton Hydraulic Steel Punch. Includes case.

Specifications:

Crimping Force:	35-Ton Hydraulic Steel Punch
Dies:	Complete with 5 dies.
Batteries:	6.0V Batteries
Construction:	Oval, Round, Square and Slotted Dies
Capacity:	½ inch thick mild steel.
Rated Operating Pressure:	10,000 PSI Operating from pump source
Weight:	only 4.8 Lbs.

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Color-Keyed[®]

Connector Tools



Features

Wide Compression Range

- #8 through 600 kcmil copper lugs and splices.
- #10 through 400 kcmil alum. lugs and splices.
- 54705 through 54750 "C" taps.
- CHT214-9 and CHT814-10 copper "H" taps.
- Also accepts Blackburn[®] insert dies for OD58 tools.

Lightweight Design

Weighs less than 7 lbs. including dies.

Color-coded Dies

Easy match with Thomas & Betts color-coded connectors. Dies sold separately or as a set.

Die code embossing

Inspectable crimp connections

U.L./CSA Certified

Listed with Color-Keyed[®] or Blackburn[®] connectors from Thomas & Betts.

5 Year Warranty against defects. Includes steel carrying case which holds up to 15 die sets.

6-Ton Hydraulic Insulated Head

Cat. No.

Description

TBM6H

The TBM6H Remote Hydraulic Crimping Head is a lightweight but powerful compression tool. The TBM6H operates from any 10,000 psi hydraulic pump and crimps a wide range of compression lugs, splices and taps, either copper or aluminum. The dies are interchangeable for the wire ranges covered and all include die code embossing to ease the inspection of the completed connection.

Output Force: 6 tons nominal
 Operating Pressure: 10,000 PSI Nominal
 (Safety By-Pass on pump set at 9800 PSI)
 Tool weight: 6½ lbs. (without dies)
 Tool dimensions: 13½ in. long, 3½ in. wide
 Tool carrying case included
 Dies are ordered as a set (2 pieces)
 Upper & lower dies are identical

TBM6H Application Information

Color-Keyed[®] Connector Dies

Connector Size		Copper C Tap Cat. No.**	TBM6H Hydraulic Head		
Copper	Aluminum		Die Cat. No.	Die Code No.	Color Code
8 AWG	10 AWG	54705	6TON21	21	Red
6 AWG	8 AWG	54710	6TON24	24	Blue
4 AWG	6 AWG	54715	6TON29	29	Grey
2 AWG		54720	6TON33	33	Brown
1 AWG	4 AWG	54725	6TON37	37	Green
1/0 AWG	2 AWG	54730	6TON42	42H	Pink
2/0 AWG	1 AWG	54735	6TON45	45	Black/Gold
3/0 AWG	1/0 AWG	54740	6TON50	50	Orange/Tan
4/0 AWG	2/0 AWG	54745	6TON54	54H	Purple/Olive
	3/0 AWG		6TON60	60	Ruby
250 kcmil		54750	6TON62	62	Yellow
300 kcmil	4/0 AWG		6TON66	66	White
350 kcmil	250 kcmil		6TON71	71H	Red
400 kcmil	300 kcmil		6TON76	76	Blue
925/24			6TON80	80	Black
500 kcmil	350 kcmil		6TON87	87H	Brown
600 kcmil	400 kcmil		6TON94	94	Green

*Exception—Consult Connector Stuffer Sheets for Catalog No. series 61900, 61100 & 61300.

**Consult Connector Stuffer Sheet for Wire Ranges.

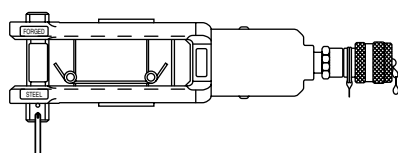
Copper H-Tap Dies

H-Tap Cat. No.	Color Code	Die Cat. No.
CHT214-9	Brown	6TON71R
CHT814-10	Green	6TON37R

Ordering Information

Cat. No.	Description	Std. Pkg.
TBM6H	Remote 6 Ton Hydraulic Head	1
TBM6HD-1	Die Set for #8 thru 500 kcmil (6-TON 21-6-TON 87)	1

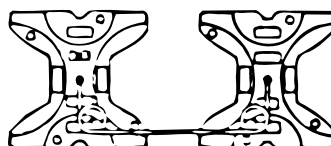
Color-Keyed® Connector Tools



12-Ton Hydraulic Crimping Tool

Cat. No.	Description
TBM12	12-ton Hydraulic Tool; five sets of multi-nest dies for installing T&B Color-Keyed® Connector from No. 8 AWG thru 750 kcmil copper and No. 10 AWG thru 750 kcmil aluminum; steel carrying case.

Multi-Nest Die Set



To install H-Type compression taps, Cat. Nos. 63110 thru 63148. Use Die Cat. No. TBM12D-H (not included). Order die separately.

If using old style 11700 Series Die Set, use adapter, Cat. No. TBM12D-AR (not included) for adaptation to the above tool. Order adapter separately.

Die Chart

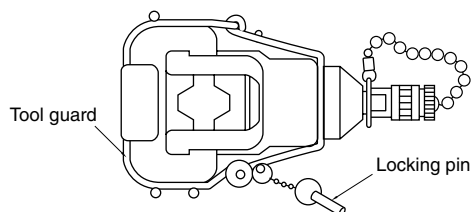
Cat. No.	Die Code	Color Code
TBM12D-1	21	Red
	24	Blue
	112H	Purple
	115H	Yellow
TBM12D-2	29	Gray
	33	Brown
	99H	Pink
	106H/107H	Black/Orange
TBM12D-3	37	Green
	42	Pink
	87H	Brown
	94H	Green
TBM12D-4	45	Black/Gold
	50	Orange/Tan
	71H	Red
	76H	Blue
TBM12D-5	54	Purple/Olive
	60	Ruby
	62	Yellow
	66H	White



Output:	12 tons (nominal)
Hydraulic Operating Pressure:	10,000 psi (maximum)
Length (with coupling):	14½ in.
Width:	2½ in.
Height:	3¼ in.
Piston Diameter:	1.812 in.
Piston Stroke:	1.00 in. (nom.)
Weight (wet):	approx. (9 lbs.) without dies

12-Ton Hydraulic Tool

Cat. No.	Description
13642M	12-ton hydraulic tool used to crimp #8-750 kcmil Color-Keyed® connectors and Sta-Kon® terminals; includes carrying case.

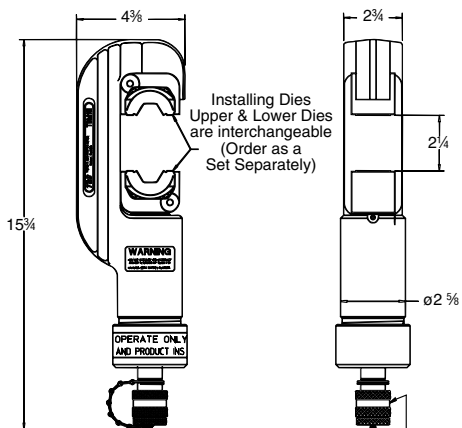


Color-Keyed[®] Connector Tools



- Installs copper and aluminum lugs and connectors through 1500 kcmil.
- Installs all copper "C" taps and aluminum "H" taps.

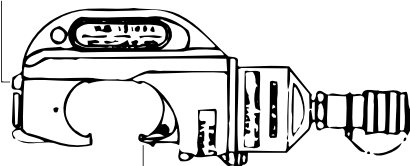
Color-Keyed[®]



1/2" Pioneer Coupler



Die Release Knob



Retainer Pin

- Installs copper through 900 kcmil and Aluminum through 750 kcmil.
- Installs copper "C" taps #54755 through #54775 and aluminum "H" taps through #63150.
- Installs grid connectors through 500 kcmil and 5/8" rod.
- Uses standard T&B Color-Keyed[®] dies.
- Includes carrying case.
- Uses 15500 series dies only.

15-Ton Hydraulic Tool

Cat. No.

Description

TBM15I

Insulated 15-ton hydraulic tool; carrying case included.

Output Force: 15 tons nominal
Operating Pressure: 10,000 psi nominal
Cylinder: 2 in. dia.
Tool Weight: 16 1/2 lbs. (without dies)
Installs: 8 AWG - 1500 kcmil Copper
10 AWG - 1000 kcmil Aluminum

15600 Series - Fits directly into tool for larger size connectors, 800 kcmil-1500 kcmil.
15500 Series - Used in conjunction with 15500-TB Adapter, #8AWG-750 kcmil.

* TBM15 MG Jaw Pressure Verification Gauge.

Features:

- New longer, slimmer profile allows easier access into tight spaces, i.e. cable tray and central office applications.
- Wider jaw opening eases crimping of larger lugs, C taps and H taps.
- Uses existing interchangeable Thomas & Betts 15500 and 15600 series dies and adapters (sold separately).
- Can be used to install copper and aluminum lugs and splices up to 1000 kcmil, C and H taps and grid ground connectors.
- Runs with 10,000 PSI hydraulic pumps.
- 5 year warranty against defects.
- Includes steel carrying case.

*Replaces Catalog Number TBM15 & TBM15PF & 297-53614

14-Ton Hydraulic Head

Cat. No.

Description

13100A

Remote 14-ton hydraulic head

Output: 14 tons (nominal)
Hydraulic Operating Pressure: 10,000 psi (max.)
Length (with coupling): 11 1/2 in.
Width: 2 1/2 in.
Height: 4 1/4 in.
Piston Dia.: 1.812 in.
Piston Stroke: 1.5 in. max.
Weight (without dies): 10 lbs.

Installation Range for Color-Keyed[®] Connectors

	Lugs	Splices
Copper	No. 8 AWG to 900 kcmil	No. 8 AWG to 900 kcmil
Aluminum	No. 10 AWG to 750 kcmil	No. 10 AWG to 750 kcmil

* TBM14MG Jaw Pressure Verification Gauge.

40-Ton Installing Head

Cat. No.

Description

21940

40-ton installing head

Thomas & Betts

Color-Keyed® Connector Tools

NEW



*T&B's newest hydraulic pump goes where you need it.
And goes and goes and goes...*

The new Pumpac® II battery-powered hydraulic pump comes with improved power capabilities to get the job done every time. Rated for 10,000 PSI, Pumpac® II pump supplies enough strength to power all the remote hydraulic heads in our tooling line. The powerful 28.8 volt batteries deliver over a hundred crimps with a 4/0 cable, or up to seventy crimps with 750 kcmil cable without recharging. And both batteries can be recharged and ready to go in just one hour.

When you've got to go, you want to finish the job when you get there. Next time, bring along a Pumpac® II system from Thomas & Betts. You can leave the wires behind.

T&B's Pumpac® II kit includes these prominent features:

- High pressure, completely portable operation.
- Long-lasting crimp cycle performance between recharges.
- Push button remote control, allowing the operator to advance, hold or retract when needed.
- High pressure hose connects to a 360° swivel port, giving the hose more flexibility in confined spaces.
- Durable construction for years of use.
- Powered by dual 14.4 volt rechargeable batteries.

Pumpac® II

Cat. No.	Description
13950P1	Self Contained Battery Powered 28.8V Pump Standard Kit.

Pumpac® II Hydraulic Pump Accessories

Cat. No.	Description
HOSEP1	10 ft. Hose
HSP1	Hand Switch
FSP1	Foot Switch

Specifications

Pump:	Reciprocating Plunger Type
Rated Pressure:	10,000 PSI
Rated Voltage:	28.8V
Dimensions:	7.5" X 9.8" X 6.9"
Weight:	35 lbs. with two batteries

Standard Pumpac® II kit includes:

- 1 Battery-powered Hydraulic Pump
- 1 Steel Carrying case
- 1 Carrying Strap
- 2 CRCTBP 14.4V Pumpac Batteries
- 1 CRCTCH Battery Charger
- 1 10' Hose
- 1 Hand Switch

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Color-Keyed[®] Connector Tools

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Color-Keyed[®]



- Electric hydraulic pump (10,000 P.S.I.) to operate all T&B remote hydraulic heads.
- 13620 hand switch and 13619 hydraulic hose required for operation.



Electric Hydraulic Pump

Cat. No.	Description
13600	High pressure hydraulic pump for use with single acting cylinders and tools rated for 10,000 psi operation; available in several configurations.
All pumps are supplied with a metal carrying case.	
Motor:	½ hp, 115V 50-60 Hz 10 amps input
Pumping Capacity:	170 cu. in./min. at 100 psi 32 cu. in./min. at 1000 psi 25 cu. in./min. at 5,000 psi 18 cu. in./min. at 10,000 psi
Weight:	25 lbs.
Reservoir Volume:	104 cu. in. (.45 gal.)
Basic Pump Dimension:	6" x 8" x 16"H

Electric Hydraulic Pump Accessories

Cat. No.	Description
13620	Hand Switch-10 ft.
13589A	Foot Switch-10 ft.
13619	10 ft. Non Metallic Hose
13618	20 ft. Non Metallic Hose
13600S	"Sled" type stand for 13600 pump

A remote control switch is required. Order Cat. No. 13620 for hand operation or Cat. No. 13589A for foot operation.

Foot/Hand Hydraulic Pump

Cat. No.	Description
13606	Combination Hand or Foot Operated – Hydraulic Pump; this pump operates all T&B hydraulic heads; built-in safety bypass valve, factory set at 9,800 psi, for proper installing pressure.

Heavy-Duty Hydraulic Pump

Cat. No.	Description
13875	New Electric Pump. Heavy-duty OEM application.
13879	Foot Switch for 13875 pump.

Thomas & Betts

Color-Keyed® Connector Tools



Electric Hydraulic Pump with Shure-Stake® Control

Cat. No.	Description
13610A	Shure-Stake® electric hydraulic pump has same features as 13600, but includes the Shure-Stake® control mechanism; prevents under crimping. (pump pressure must reach 9,800 psi before recycling); requires hand or foot control; order switch and hose separately.
Motor Rating:	½ HP, 115V, 50-60 Hz, 12.5 amps
Maximum Pressure:	10,000 psi
Pumping Capacity:	170 cu. in./min. at 100 psi 32 cu. in./min. at 1000 psi 25 cu. in./min. at 5000 psi 18 cu. in./min. at 10,000 psi
Reservoir Volume:	104 cu. in. (.45 gal.)
Basic Pump Dimension:	8½" x 10½" x 16"H
Weight:	35 lbs.
Application:	Pump is suitable for use with all T&B hydraulic tools

Electric Hydraulic Pump Accessories

Cat. No.	Description
13611	Hand Switch-10 ft.
13612	Foot Switch-10 ft.
13797	In line hydraulic pressure inspection gauge with male and female pioneer type coupler.

A remote control switch is required to operate this unit. Use either a #13611 (hand) or #13612 (foot) switch.

Hydraulic Oil

Cat. No.	Description
21061	Hydraulic Oil

Disconnect Couplers

Cat. No.	Description
13798	Male pioneer quick disconnect coupler.
13799	Female pioneer quick disconnect coupler.

Electric Hydraulic Pump

Cat. No.	Description	Std. Pkg.
13810	Electric hydraulic pump, 10000 psi with Shure-Stake® mechanism feature; this is a heavy duty OEM pump with high flow rate; 115V, 60Hz, 1½ HP, 23 Amps; requires hand or foot control	1



Thomas & Betts

Color-Keyed[®]

Connector Tools

E

Color-Keyed[®]

Cable Cutter

Cat. No.	Description	Std. Pkg.	Wt. Each
CSR750	Only 16" long, special advance stroke mechanism greatly reduces handle force required to cut copper or aluminum cables up to 750 kcmil, short handles (10" long) enables the use of this slicer in confined spaces.	1	4



Cable Cutter – Fiberglass Handles

Cat. No.	Cable Size	Std. Pkg.	Wt. Each
364RF	Up to 500 kcmil copper or aluminum.	1	3
366RF	Up to 1000 kcmil copper and aluminum.	1	8

For copper and aluminum cable only. Not for Steel.
Replacement blades are available through tool service.



Hydraulic Cutter

Cat. No.	Description	Std. Pkg.	Wt. Each
297-32136	Remote head hydraulic cutter for Aluminum and Copper wires. Maximum wire diameter 1½".	1	8.5



Cable Stripper

Cat. No.	Std. Cable Size	Std. Pkg.	Wt. Each
368-CK	#1 – 1000 kcmil	1	3
368B	Replacement Slitting Blade for Cat. No. 368	1	1



Cable Bender

Cat. No.	Cable Size	Std. Pkg.	Wt. Each
21649	For bending cable up to 750 kcmil	1	3



Cable Stripper

Cat. No.	Description	Std. Pkg.	Wt. Each
BCS8-40	<ul style="list-style-type: none"> Cable stripper for cable 8 AWG-4/0 battery cable Replacement blade provided in the handle 	1	1
BCS8-40B	<ul style="list-style-type: none"> Replacement blade 	2	.03



C-Tap Removal Tool

Cat. No.	Description	Std. Pkg.	Wt. Each
CTR-1	C-Tap removal tool	1	4.3

Thomas & Betts

Color-Keyed® Installation Tools



Hydraulic Cutting Tool

NEW

Hydraulic Cutting Tool – New Model, Self-Contained / Durable

Hand operated hydraulic tool specifically designed to cut copper, aluminum and telecommunications cables having a maximum overall diameter of 3.35".

The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful

speed for cutting. The blades are manufactured from high strength special steel, heat treated to ensure a long service life. The head can easily be opened to allow the cutting of existing run cables. The head also can be rotated 180 degrees to enable the operator to position for the easiest use.

The TBM40HC features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be activated during any point of operation.

Specifications:

Max. Cutting Inches 3.35

Length 25.69

Dimensions

Width in Inches 6.89

Weight (lbs.) 14.55

Blackburn® Cutter

Cat. No.	Cutting Range
TBM40HC	Maximum 3.35" Dia.



For a powerful, battery-operated alternative, turn to page E89 for a look at our Battpac® Battery-Powered Cutting Tools.

TBM54BSCT

Thomas & Betts

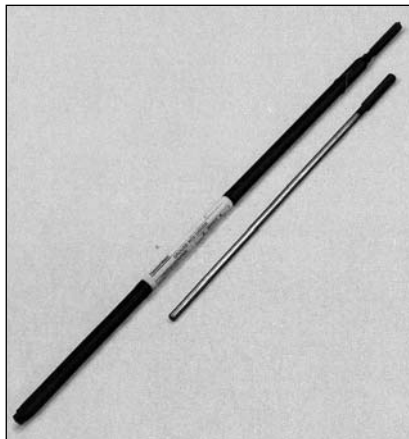
Color-Keyed®**Installation Tools****NEW**

Photo includes ground rod driver and insert

Ground Rod Driver

For installing ground rods, there's no safer, simpler or more effective tool than the Thomas & Betts Ground Rod Driver. It can be used on all types of ground rods including copper-bonded, galvanized and stainless steel.

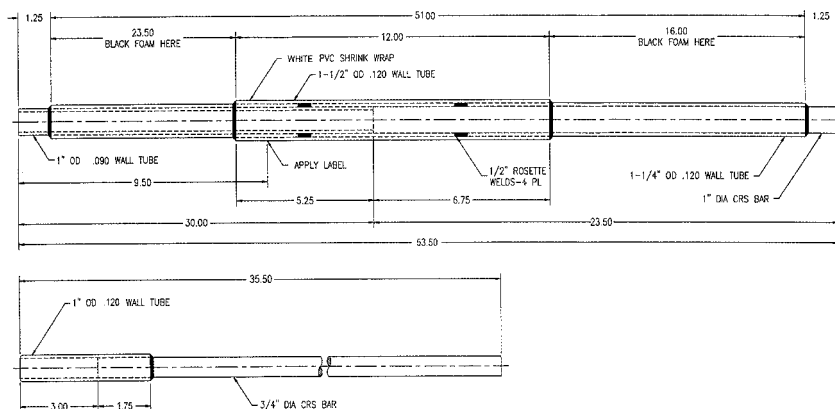
Integral inserts prevent the driver from slipping off the rod near ground level. The inserts are $\frac{5}{8}$ " and $\frac{3}{4}$ ", and are interchangeable with the standard driver body. The convenient retaining collar holds the insert in the tool when not in use.

Thomas & Betts Ground Rod Drivers have a heavy-duty steel construction that allows maximum force for driving ground rods, while the efficient design ensures that minimal lifting

force is required. The ground rod end is designed for high impact applications to ensure quality connections.

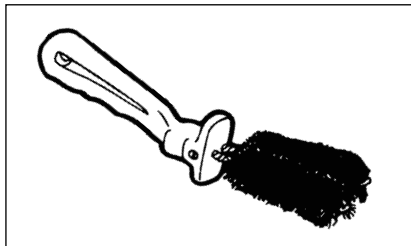
- Unique design allows installation of 10-foot rods from ground level.
- Heavy-duty steel construction.
- Ergonomic grip provides ease and comfort with increased safety.
- Complete with interchangeable parts that are range-taking for different diameter ground rods.
- Two interchangeable inserts allow the same tool to be used with all sizes of rods.
- Completely self-contained and easy to store.

Cat. No.	Description	Weight (lb)	Maximum Rod Diameter (in.)	Pack Quantity
TBRD58	5' Ground Rod Driver with $\frac{5}{8}$ " insert	25	.63	1
TBRD34	5' Ground Rod Driver with $\frac{3}{4}$ " insert	25	.75	1
TBS58	Replacement $\frac{5}{8}$ " insert	4	.63	1
TBS58	Replacement $\frac{3}{4}$ " insert	4	.75	1

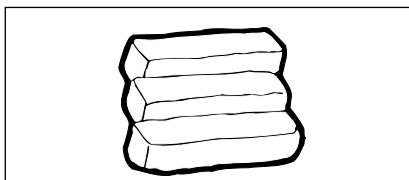
**Thomas & Betts**

Color-Keyed®

Sealants and Lubricants



- For removing oxides from conductor surfaces
- Easy grip handle with glove guard to prevent rubber glove puncture
- Long life brushes can be rotated and are replaceable
- Handle and guard coated with durable non-conductive plastic



- Seals around junction boxes, flashings, service mast entries, service cable entries and countless other applications
- Easy to use, forms around irregular surfaces and configurations
- Highly resistant to cracking, drying and shrinking
- Cuts and trims easily
- Can be painted immediately after application
- Grey color
- No unpleasant odor
- +20°F to 212°F workable temperature range
- -40°F to 250°F service temperature range
- Contains no asbestos



Silicone lubricant

Type WW – Wire Bristle Brush

Cat. No.	Description
WWB1	Complete Brush with Handle
WRB1	Wire Element Only, Pair

Type DX – Duct Seal

Cat. No.	Size
DX-1	1 lb. Slug
DX-5	5 – 1 lb. Slugs
DX-5S	5 lb. Slug

U.L. Classified R13335

Silicone Lubricant for High Voltage Electrical Work

Cat. No.	Size	Std. Pkg.
2012	2 grams	250 tubes
2015	5 grams	100 tubes
SL5	5 oz./142 grams	12 tubes

E

Color-Keyed®



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Installing Dies

Gauging Information for Standard Hex Dies

Die Code Nos.	TBM6H	13642 & 13400 Dies	TBM15I TBM14M, 13100A Dies	21940 Dies	Hex Gauging
21	6TON21	11732	15520	—	.191-.207
24	6TON24	11733	▲15522	—	.222-.234
26		11754	—	*11400	.262-.268
27		—	—	11330	.262-.268
29	6TON29	11734	▲15527-CK	11401	.282-.294
32		—	—	11332	.329-.335
33	6TON33	11735	▲15528	11402	.326-.337
35		—	—	*11403	.353-.359
37	6TON37	11736	▲15513-CK	11333	.369-.383
40		—	—	*11404	.397-.403
42		11737	15508F	11334	.409-.423
42H	6TON42	—	15508	—	.409-.423
45	6TON45	11738	▲15526	11405	.445-.459
50	6TON50	11739	▲15530	11406	.494-.506
52		—	▲15529	11361	.511-.529
54		11740	15511F	11407	.535-.553
54H	6TON54	—	15511	—	.535-.553
57		11770	—	—	.585-.591
58		—	—	11338	.585-.591
60	6TON60	11741	▲15532-CK	11408	.587-.605
62	6TON62	11771	▲15510-CK	11340	.613-.631
66	6TON66	—	▲15534	11409	.657-.675
66H		11742	—	—	.657-.675
71		—	15514F	11363	.707-.725
71H	6TON71	11743	15514-CK	—	.707-.725
76	6TON76	—	▲15512	11410	.751-.769
76H		11744	—	—	.751-.769
78		—	—	11306	.751-.769
80	6TON80	—	15606	11411	.790-.802
80H		11745	15517	15517	.790-.802
83		—	—	*11370	.825-.831

* Obsolete, consult factory for availability.

▲ Use same gauging for 15500F Series dies (see Fig. 2).

• Gauges may be ordered from T&B Tool Service.

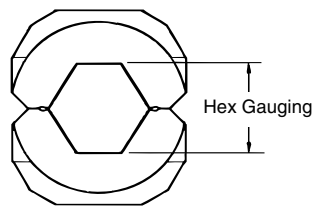


Fig. 2

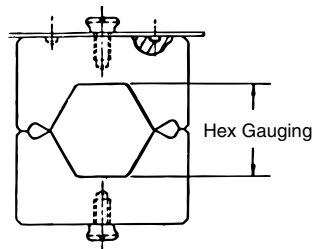


Fig. 1

Gauging Information for Standard Hex Dies

Die Code Nos.	TBM6H	13642 & 13400 Dies	TBM15I TBM14M, 13100A Dies	21940 Dies	Hex Gauging
74H		—	15604	—	.733-.751
87		—	—	11423	.861-.879
87H	6TON87	11746	15506	—	.861-.879
94	6TON94	—	—	11364	.935-.953
94H		11747	15536CK, 15611	—	.935-.953
96		—	—	11304	.959-.977
96H		11758	15503	—	.959-.977
99		—	—	11424	.979-.997
99H		11748	▲15505	—	.979-.997
100		—	—	11365	1.005-1.011
106A		11759	—	—	1.049-1.071
106H		11749	▲15515-CK	—	1.049-1.071
107		—	—	11425	1.064-1.076
107H		11750	15608	—	1.064-1.076
112		—	—	11426	1.118-1.131
112H		11751	15609	—	1.118-1.131
115		—	—	11308	1.141-1.163
115H		11753	▲15504	—	1.141-1.163
125		—	—	11416	1.239-1.261
125H		—	15603	—	1.239-1.261
126		—	—	11443	1.247-1.253
130		—	—	11417	1.299-1.305
138		—	—	11366	1.377-1.383
140		—	—	11418	1.369-1.391
140H		—	15602	—	1.369-1.391
150		—	—	11419	1.459-1.481
150H		—	15601	—	1.459-1.481
160		—	—	11442	1.609-1.615
161		—	—	11420	1.609-1.615
168		—	—	11447	1.684-1.690
175		—	—	11421	1.752-1.744
204		—	—	11448	2.037-2.043
212		—	—	11449	2.120-2.126
214		—	—	11337	2.140-2.146

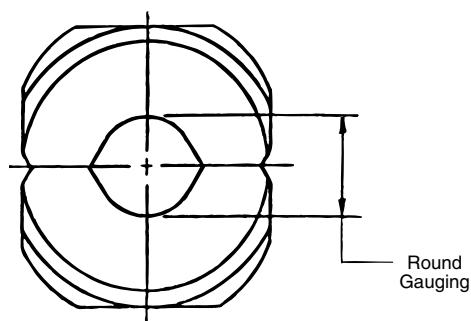
* Obsolete, consult factory for availability.

▲ Use same gauging for 15500F Series dies (see Fig. 2).

• Gauges may be ordered from T&B Tool Service.

Color-Keyed®

Installing Dies



Installing Dies for High Voltage Connectors

Die Code Numbers	TBM15I, TBM14M, 13100A		Round Gauging
	**Adapter Type	Non-Adapter Type	
29R	15CA29R	—	.302/.290
33R	15CA33R	—	.348/.336
37R	15CA37R	—	.394/.382
42R	15CA42R	—	.432/.420
45R	15CA45R	—	.472/.460
49R	15CA49R	—	.522/.510
54R	15CA54R	—	.576/.564
60R	15CA60R	—	.604/.592
66R	15CA66R	—	.680/.668
71R	15CA71R	—	.730/.718
76R	15CA76R	—	.790/.778
87R	15CA87R	—	.904/.892
94R	15CA94R†	—	.958/.946
106R	15CA106R†	—	1.042/1.030
125R	—	15C125R*	1.298/1.286

*To be used with TBM15I only.

**Use 15500-TB adapter with TBM15I tool.

†Not U.L. listed in TBM14M/13100A tool.

E

Color-Keyed®

Installing Dies for Aluminum H Taps

Cat. No.	Description
For TBM12 & 13642	
11780	Green Color Code
11790	Blue Color Code
For TBM15I/13100A/TBM14M	
15501A*	Green Color Code
15502*	Blue Color Code
For TBM15I Only	
15612	Red Color Code
15620	Black Color Code
For TBM6/6S/60RS	
13470	Green Color Code
13471	Blue Color Code
For TBM6H	
6TON50	Orange Color Code
6TON0	Green Color Code

*Requires 15500-TB adapter with TBM15I

Installing Dies for COPPER H Taps

Die Cat. No.	Embossing	Color	Tools
15620CHF	F	White	TBM15I
15620CH	Z	Yellow	TBM15I
15612CH	N	Brown	TBM15I
15CA80RCH	80R	Purple	TBM15I/TBM14M 13100A
15CA71RCH	71R	Brown	TBM15I/TBM14M/13100A
15CA37RCH	37R	Green	TBM15I/TBM14M/13100A
6TON71R	71R	Brown	TBM6H
6TON37R	37R	Green	TBM6H

Die Adapter for TBM15I

Cat. No.	Description
15500-TB	Adapter

Installing Dies for Figure 6 and Figure 8 Ground Connectors

Cat. No.	Cable Element A	To Cable Element B	To Ground Rod Element B	To Rebar Element B	Die Selection	
					Element A	Element B
54855L	#6 Sol. - #2 Str.	#6 Sol. - #2 Str.	—	—	15501A	15501A
54865L	#1 Str. - 250 kcmil	#6 Sol. - #2 Str.	½" - ⅝" Rod	⅜" - ½" #3 - #4 Rebar	15G86R	15501A
54875L	#2 Str. - 250 kcmil	#2 Str. - 250 kcmil	½" - ⅝" Rod	⅜" - ½" #3 - #4 Rebar	15G86R	15G86R
54885L	250 kcmil - 500 kcmil	#6 Sol. - #2 Str.	⅝" - ¾" Rod	⅝" - ¾" #3 - #4 Rebar	15G126R	15501A
54895L	250 kcmil - 500 kcmil	#2 Str. - 250 kcmil	⅝" - ¾" Rod	⅝" - ¾" #3 - #4 Rebar	15G126R	15G86R
54900L	250 kcmil - 500 kcmil	#2 Str. - 250 kcmil	⅝" - ¾" Rod	⅝" - ¾" #3 - #4 Rebar	15G121R	15G121R

Thomas & Betts

Color-Keyed®

Installing Dies

Cable Slicing Die Sets

Cuts copper and aluminum insulated cable sizes from #8 AWG through 500 kcmil. Produces clean, squared end cut which eliminates extra trimming of conductor strands.

Cat. No.	Maximum Cable Size	Tools
BY55	2/0	TBM6H and TBM6BSCR
40C	4/0	TBM14M AND 13100A AND TBM14BSCR
156CS	500 kcmil	TBM15I AND TBM15BSCR

Color-Keyed®

Connector, Tool and Die Chart

Connector Size			Color-Keyed Die Color	TBM25S	TBM4S	TBM8-750/-1	TBM-8 / 8S	TBM-5 / 5S	TBM6 / 6S (25000)		13642M (13400) Hydraulic Head		TBM12 Hydraulic Head	
Code Copper	Flex/24	AL/CU							Cat. No. Upper Die	Cat. No. Lower Die	Die Cat. No.	Die Code No.	Die Cat. No.	Die Code No.
8 AWG	37/24	10 AWG	Red	↔	↔	↔	order 13461	order 13454	13475	13477	11732	21	TBM12D-1	21
6 AWG	61/24	8 AWG	Blue						13475	13477	11733	24	TBM12D-1	24
4 AWG	91/24	6 AWG	Gray						13472	13476	11734	29	TBM12D-2	29
2 AWG	125/24		Brown						13474	13477	11735	33	TBM12D-2	33
1 AWG	150/24	4 AWG	Green	↕			order 13462	order 13455	13474	13477	11736	37	TBM12D-3	37
1/0	225/24	2 AWG	Pink	C-Taps Only					13475	13477	11737	42	TBM12D-3	42
2/0	275/24		Black						13474	13477	11738	45	TBM12D-4	45
3/0	325/24		Orange						13474	13477	11739	50	TBM12D-4	50
4/0	450/24		Purple				order 13463	order 13456	13475	13477	11740	54	TBM12D-5	54
250 kcmil	550/24		Yellow						13473	13476	11771	62	TBM12D-5	62
		1 AWG	Gold						13474	13477	11738	45	TBM12D-4	45
		1/0	Tan				order 13464	order 13457	13474	13477	11739	50	TBM12D-4	50
		2/0	Olive						13475	13477	11740	54	TBM12D-5	54
		3/0	Ruby						13473	13476	11741	60	TBM12D-5	60
300 kcmil	775/24 (short)	4/0	White				13465		13473	13476	11742	66H	TBM12D-5	66H
350 kcmil	775/24 (long)	250 kcmil	Red				13466	13458 4/0 only	13472	13476	11743	71H	TBM12D-4	71H
400 kcmil	925/24*	300 kcmil	Blue				13467		13472	13476	11744	76H	TBM12D-4	76H
		N/A							13479	13476	11745	80H		
		N/A												
500 kcmil		350 kcmil	Brown				13468		13478	13478	11746-TB	87H	TBM12D-3	87H
600 kcmil	1100/24	400 kcmil	Green								11747	94H	TBM12D-3	94H
	1325/24**		Green									94H		
700 kcmil		500 kcmil	Pink								11748	99H	TBM12D-2	99H
750 kcmil		650 kcmil	Pink								11749	106H	TBM12D-2	106H
800 kcmil			Black								11750	107H		
			Orange								11751	112H	TBM12D-1	112H
900 kcmil	1925/25	700 kcmil	Purple								11753	115H	TBM12D-1	115H
1000 kcmil		750 kcmil	Yellow											
		800 kcmil												
		1000 kcmil												

* Standard barrel only. Long barrel requires Brown 87H.

** Standard barrel only. Long barrel requires Black 106H.



Color-Keyed®

Connector, Tool and Die Chart

Connector Size				TBM6BSCR / 6H		TBM62BSCR		TBM14BSCR / 14M / 13100A*		TBM15BSCR / 151***		21940 (40 TON)	
Code Copper	Flex/24	AL/CU	Color-Keyed Die Color	Die Cat. No.	Die Code No.	Die Cat. No.	Die Code No.	Die Cat. No.	Die Code No.	Die Cat. No.	Die Code No.	Die Cat. No.	Die Code No.
8 AWG	37/24	10 AWG	Red	6TON21	21	TBM6221	21	15520	21	15520	21		
6 AWG	61/24	8 AWG	Blue	6TON24	24	TBM6224	24	15522	24	15522	24		
4 AWG	91/24	6 AWG	Gray	6TON29	29	TBM6229	29	15527-CK	29	15527-CK	29	11401	29
2 AWG	125/24		Brown	6TON33	33	TBM6233	33	15528	33	15528	33	11402	33
1 AWG	140/24	4 AWG	Green	6TON37	37	TBM6237	37	15513-CK	37	15513-CK	37	11333	37
1/0	225/24	2 AWG	Pink	6TON42	42	TBM6242	42	15508	42H	15508	42H	11334	42
2/0	275/24		Black	6TON45	45	TBM6245	45	15526	45	15526	45	11405	45
3/0	325/24		Orange	6TON50	50	TBM6250	50	15530	50	15530	50	11406	50
4/0	450/24		Purple	6TON54	54	TBM6254	54	15511	54	15511	54H	11407	54H
250 kcmil	550/24		Yellow	6TON62	62	TBM6262	62	15510-CK	62	15510-CK	62	297-31669-7	62
		1 AWG	Gold	6TON45	45	TBM6245	45	15526	45	15526	45	11405	45
		1/0	Tan	6TON50	50	TBM6250	50	15530	50	15530	50	11406	50
		2/0	Olive	6TON54	54	TBM6254	54	15511	54	15511	54H	11407	54
		3/0	Ruby	6TON60	60	TBM6260	60	15532-CK	60	15532-CK	60	11408	60
300 kcmil		4/0	White	6TON66	66H	TBM6266	66	15534	66H	15534	66H	11409	66
350 kcmil	775/24 (short)	250 kcmil	Red	6TON71	71H	TBM6271	71	15514-CK	71H	15514-CK	71H	11363	71
400 kcmil	775/24 (long)	300 kcmil	Blue	6TON76	76H	TBM6276	76	15512	76H	15512	76H	11410	76
	925/24*		N/A	6TON80	80H	TBM6280	80	15517	80H	15517	80H		
			N/A										
500 kcmil		350 kcmil	Brown	6TON87	87H	TBM6287	87	15506	87H	15506	87H	11423	87
600 kcmil	1100/24	400 kcmil	Green	6TON94	94H			15536-CK	94H	15611	94H	11364	94
	1325/24**	Pink	Green							15536-CK			
700 kcmil		500 kcmil	Pink		99H			15505	99H	15505	99H	11424	99
750 kcmil		650 kcmil	Black		106H			15515-CK	106H	15515-CK	106H	74506	106
800 kcmil			Orange		107H			15608	107H	15608	107H	11425	107
		700 kcmil	Purple		112H			15609	112H	15609	112H	11426	112
900 kcmil	1925/24	750 kcmil	Yellow		115H			15504	115H	15504	115H	11308	115
1000 kcmil		800 kcmil								15603	125H	11416	125
		1000 kcmil								15602	140H	11418	140
										15601	150H	11419	150

* Standard barrel only. Long barrel requires Brown 87H.

** Standard barrel only. Long barrel requires Black 106H.

*** 15500 Series dies require 15500-TB adapter. 15500F for full size die to fit TBM151 without adapter.

Color-Keyed®

Connector, Tool and Die Chart For Copper H-Taps

Conductor Size Code Cable (Flex Cable)				Installation						Insulating Cover
Main	Branch 1	Branch 2	Branch 3	H-Tap	Color	DIE	TOOL	# of crimps	Die Embossing	
8-14 (8-14)	8-14 (8-14)	—	—	CHT814-10	Green	15CA37RCH*	Group 1	1	37R	HTC2S
2-6 Str / Sol (2-8)	2-6 Str / Sol (2-8)	8-14 (8-14)	8-14 (8-14)	CHT214-9	Brown	15CA71RCH*	Group 1	1	71R	HTC40
250-2 (4/0-2)	8-14 (8-14)	8-14 (8-14)	—	CHT250214-8	Purple	15CA80RCH*	Group 2	1	80R	
250-2 (4/0-2)	2-6 Str / Sol (2-8)	8-14 (8-14)	—	CHT25014-7	Purple	15CA80RCH*	Group 2	1	80R	
250-2 (4/0-2)	250-2 (4/0-2)	—	—	CHT2502-6	Purple	15CA80RCH*	Group 2	1	80R	
500-4/0 (350-4/0)	250-1/0 (4/0-1/0)	1 Str 2-6 (1-8)	8-14 (8-14)	CHT50010-5	Brown	15612CH	Group 2	2	N	HTC500
500-4/0 (350-4/0)	500-4/0 (350-4/0)	—	—	CHT50040-4	Brown	15612CH	Group 2	2	N	
750-350 (550-500)	4/0-1/0 (250-1/0)	1 Str 2-6 (1-8)	2-14 (2-14)	CHT75010-3	Yellow	15620CH	Group 2	1	Z	
750-350 (550-500)	750-350 (550-350)	—	—	CHT750350-2	Yellow	15620CH	Group 2	1	Z	
750 (750-500)	350-4/0 STR & FLEX	—	—	CHT75040-11	Yellow	15620CH	Group 2	1	Z	HTC1000
(750-500) (750)	(750-500) (350)	—	—	CHT750350-1F	White	15620CHF	Group 2	1	F	

* Requires optional adapter 15500-TB when used with hydraulic head TBM15I and TBM15BSCR

Group 1 = TBM15I, TBM15BSCR, TBM14M, TBM14BSCR, 13100A

Group 2 = TBM15I, TBM15BSCR



Color-Keyed®

Connector, Tool and Die Chart For Standard C-Taps

CODE WIRE COMB. CIR. AREA RANGE		C-Tap	Color	Group 1	TBM62BSCR	SMART Tool	Group 2	Group 3	INSULATION CHOICE	
Main	Branch 1			DIE	DIE	DIE			ADHESIVE	SHRINK TUBING
12	14	54705	Red	6TON21	TBM6221	—	Accommodates This Range	Accommodates This Entire Range	AC5X3	HS12-6
14	16									
10	10	54710	Blue	6TON24	TBM6224					
8	12									
6	10, 12	54715	Gray	6TON29	TBM6229	—				
8	8, 10, 12									
4 OR 5	8, 10, 12	54720	Brown	6TON33	TBM6233	TBM8-750C20				HS6-1
6	6, 8									
3	6, 8, 10, 12 ***	54725	Green	6TON37	TBM6237	TBM8-750C2530				
4 OR 5	6, 5									
2	6, 8, 10, 12	54730	Pink	6TON42	TBM6242	TBM8-750C2530				HS4-30
3	5									
4	3									
1	4, 5, 6, 8, 10, 12	54735	Black	6TON45	TBM6245	TBM8-750C3540				
2	4, 5									
3	3, 4									
1/0	4, 5, 6, 8, 10, 12	54740	Orange	6TON50	TBM6250	TBM8-750C3540				
1	3, 4									
2	2, 3									
2/0	3, 4, 5, 6, 8, 10, 12	54745	Purple	6TON54	TBM6254	TBM8-750C4550				
1/0	2, 3									
1	1, 3									
3/0	2, 3, 4, 5, 6, 8, 10, 12	54750	Yellow	6TON62	TBM6262	TBM8-750C4550				
2/0	1, 2									
1/0	1/0, 1									

*** When using 3 AWG on main and 12 AWG on branch with smart tools and dies, 12 AWG wire must be doubled (hair-pinned) and placed on branch for crimping

Group 1 = TBM6H / TBM6BSCR

Group 2 = TBM25S, TBM21E and require 2 compressions within each crimp area

Group 3 = TBM5 / 5S, TBM6 / 6S, TBM8 / 8S, TBM6H and require 1 compression within each crimp area

Color-Keyed®**Connector, Tool and Die Chart For Large C-Taps**

CODE COPPER RANGE			REGULAR TOOLS							SMART TOOL			INSULATION CHOICE	
Main	Branch 1	C-Tap *	Color	TOOLS	DIES	DIE CODE	# OF CRIMPS***	TOOLS	DIE	# OF CRIMPS	ADHESIVE PAD	SHRINK TUBING		
1	1	54755	Blue	13642M	11744	76H	2	TBM8-750	TBM8-750CL	1	AC5X7	HS4-30		
1/0	1/0-2			TBM12	TBM12D-4			TBM8-750M-1						
2/0	2/0-4			TBM14M	15512 **	76	1							
3/0	1/0-6			TBM15I										
4/0	1-8			13100A										
2/0	2/0-1	54760	Brown	TBM14BSCR	11746-TB	87H	2			2		HS40-400		
3/0	3/0-3			TBM15BSCR	TBM12D-3									
4/0	4/0-4				15506 **									
250	1/0-8				11748	99H								
2/0	2/0-1	54765	Pink		TBM12D-2							HS500-1000		
3/0	3/0-2				15505 **									
4/0	4/0-4													
250	3/0-6													
300	2/0-8													
4/0	4/0-2/0	54770	Black		11749	106H								
250	250-1				TBM12D-2									
300	4/0-4				15515 -CK **									
350	3/0-6													
250	250	54775	Yellow		11753	115H								
300	300-3/0				TBM12D-1									
350	350-1/0				15504 **									
400	300-2													
450	250-4													
500	250-6****													
350	350-4/0	54780	N/A	TBM15I	15603	125H								
400	400-2/0			TBM15BSCR										
450	450-1													
500	500-2							3		N/A				
750	4/0-6	54785						4						
500	4/0-1/0													
750/500	750-4/0	54790												

* For tin plate finish add "TP" to Cat. No. listed (Example: 54755TP)

** Use with adapter Cat. No. 15500-TB (Note: If 15500 dies have a suffix "F" they are full sized dies and can be used with the TBM15I without an adapter.

*** When using compact copper cable, apply additional overlapping crimps so that C-tap is crimped from end to end.

**** #6 AWG branch must be doubled

11000 series dies go with 13642M tool, TBM12D-# series dies go with TBM12 tool, and 15500 series dies go with TBM14M/14BSCR/13100A/TBM15I/15BSCR

Thomas & Betts

Color-Keyed®

Tool Services



1-800-284-TOOL (8665)

Thomas & Betts Tool Service

Thomas & Betts Tool Service has a staff of highly trained, experienced and dedicated technicians and application specialists to support our customers in every aspect of their tooling needs.

The Tool Service Department is capable of repairing all Thomas & Betts tools; from delicate fiber optic cleaving tools to large hydraulic pumps and crimping heads. The department is also responsible for warranty repairs and will supply a loaner tool when necessary.

For the customer that is capable of repairing their own tools, Tool Service also sells the component parts. In addition, they can provide the technical data and information required.

Other services include the calibration or certification of tools to meet

applicable standards including "inhouse" certification of tools for larger OEM'S in conjunction with the ISO 9000 programs. Tool Service also administers the lease tools available for the OEM market. There is also a tool rental program powered toward contractor jobs where the tools will be needed for a relatively short period of time.

The Application Tool Specialist also supports the field sales organization in tool demos, customer training and tool installations. Arrangements are made with the local sales representative.

There are four Thomas & Betts Tool Service Centers to serve our customers quickly and efficiently, located near Philadelphia, PA., Chicago, IL, Reno, NV and Charlotte, NC. Contact the service center most convenient for you.

Limited Warranty

Thomas & Betts manufactures these tools to be free of defects in material and workmanship for the time specified below. Should any defect occur during the specified time period, Thomas & Betts will repair or replace the tool at its option.

Limitations and Exclusions

THIS WARRANTY IS IN LIEU OF ALL OTHER REPRESENTATIONS AND EXPRESSED AND IMPLIED WARRANTIES (INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE) AND UNDER NO CIRCUMSTANCES SHALL THOMAS & BETTS BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES.

THIS WARRANTY IS NON-TRANSFERABLE AND REPLACEMENT OF DEFECTIVE PARTS MUST BE MADE AT A FACILITY DESIGNATED BY THE MANUFACTURER.

Direct all inquiries to: **Thomas & Betts Tool Repair Center**
1-800-284-TOOL (8665)

<p>90 DAYS</p> <ul style="list-style-type: none"> • Electronic Operated Tools (Printers, Testers) • Individual Die 	<p>1 YEAR</p> <ul style="list-style-type: none"> • Pneumatic Tools • Cable Cutters, Strippers • TY-Tools • ID Systems
<p>2 YEARS</p> <ul style="list-style-type: none"> • Mechanical Hand Tools With Ratchet or Shure-Stake® • Hydraulic Pumps (Battery Operated Tools Included) 	<p>5 YEARS</p> <ul style="list-style-type: none"> • Mechanical Hand Tools Without Ratchet or Shure-Stake® • Hydraulic Tools (Self-Contained and Remote Heads)
<p>LIFETIME</p> <ul style="list-style-type: none"> • Electricians' Supply Hand Tools 	

Thomas & Betts

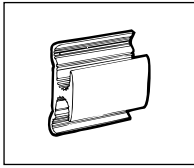


Blackburn® Compression

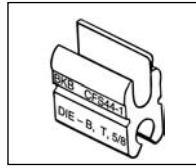
Product Overview	F2
Compression H-Tap Connectors	F3-F11
Service Entrance Connectors	F11-F15
Distribution Compression Connectors	F16-F22
Compression Stirrup Connectors	F23-F25
Colour-Coded Compression Connectors	F26-F34
Automatic Splices	F35
Automatic Deadends	F36-F37
Service Wedge Clamps	F38

F

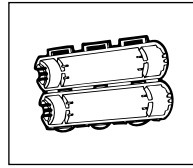
Thomas&Betts



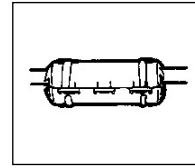
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Wide Range
Compression
Connectors
Pages F3-F9



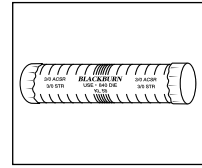
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Copper Compression
Tap Connectors
Page F10



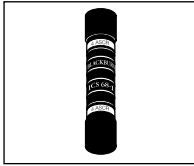
Type C
Compression Tap
Covers
Page F11



Type CS, CSC
5/8" Service Entrance
Sleeves With Cover
Page F11



Type KL
Large Compression
Service Entrance Sleeves
Page F12



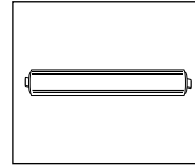
Type ICS
5/8" Insulated Service
Entrance Sleeves
Page F13



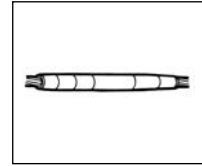
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Insulated Large Service
Entrance Sleeves
Page F14



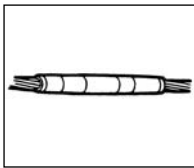
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Triplex Neutral Splices
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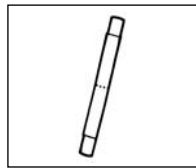
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Non-Tension
Aluminum Splices
Page F15



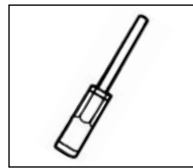
Type ACJ, RCJ
Aluminum Jumper
Sleeves
Pages F16-F17



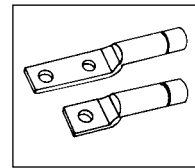
Type AC, RC
Full Tension
Aluminum Splices
Pages F18-F19



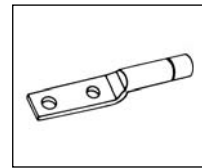
Type CTS
Copper Full Tension
Sleeves
Page F20



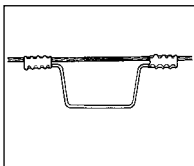
Type PCS, PKL, PRS
Pigtail Compression
Sleeves
Page F20



Type AL
Aluminum Compression
Terminal Lugs
Page F21



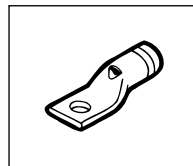
Type ALS
Aluminum Jumper
Terminal Lugs
Page F22



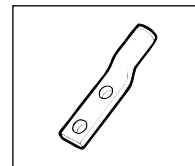
**Type WRQ, WRS,
SC, CCS, QC**
Compression Stirrups
Pages F23-F25



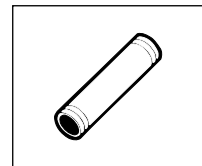
Type LP
Line Protector
Sleeves
Page F25



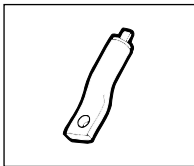
Type CTL
Copper Short Barrel
Connectors
Page F26



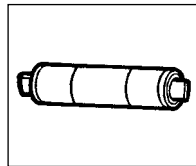
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Copper Long Barrel
Connectors
Pages F27-F29



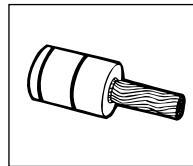
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Copper
Compression Splices
Pages F30-F31



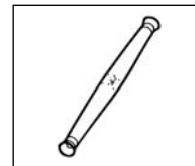
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Aluminum Compression
Connectors
Pages F32-F33



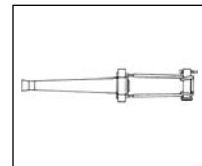
Type ASP
Aluminum Splices
Page F33



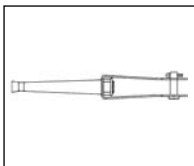
Type PA
Pin Adapter
Terminals
Page F34



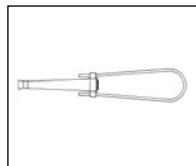
Type ATS
Automatic Splices
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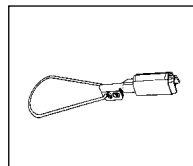
Type ATD-ZB
Stainless Steel Bail
Page F36



Type ATD-CB
Clevis Bracket
Page F37



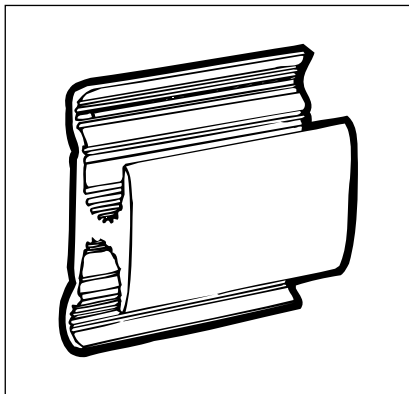
Type ATD-FB
Flexible Bail
Page F37



Type W
Wedge Clamp
Page F38

Blackburn®

Compression H-Tap Connectors



Type WR – Wide Range Aluminum Tap Connectors

- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Pass the requirements of ANSI C119.4.
- Standard compression tools and dies install all sizes.
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures.
- Fold-in tabs provide positive tab interlock as tool closes.

- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor's shape.
- Made of 1350 aluminum alloy.
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- RUS Listed.
- All connectors reversible.
- For copper to copper combinations, use CF type shown on page F10.

F

Blackburn®

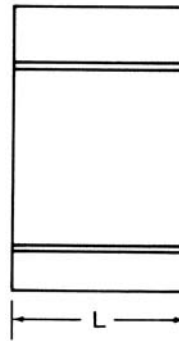
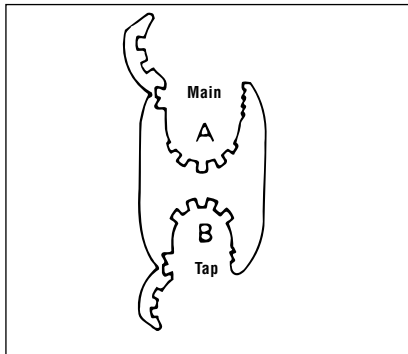
Type WR – “O” and “D” Die Seven Connector Program

Cat. No.	Connector No.	Conductor Range														Con- nector Length L	Installation Information		
		Standard Conductor						Compact Conductor				Diameter (in.)					Con- nector Die	No. Indents	
		Main			Tap			Main		Tap		Main		Tap				Mech. Tool	Hyd. Tool
		ACSR	Str.	Sol.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	max.	min.	max.	min.				
WR159	1		1			1		1	1	1	1					1 1/16"	O	4	2
		2	2	2	2	2	2	2	2	2	2	.332	.162	.332	.162				
		4	3	4	4	3	4	4	3	4	3								
		6	4	6	6	4	6	6	4	6	4	6							
			6			6		6	6										
WR189	2	1/0	2/0	3/0	2	1	1/0	2/0	2/0	1	1					1 11/16"	O	5	2
		1	1/0	2/0	4	2	1	1/0	1/0	2	2	.419	.266	.332	.162				
		2	1	1/0	6	4	2	1	1	4	6								
			2			6		2	2	6									
WR289	3	2/0	3/0	4/0	2	1	1/0	2/0	2/0	1	1					1 3/16"	D	5	2
		1/0	2/0	3/0	4	2	1	1/0	1/0	2	2	.470	.398	.332	.162				
					6	3	2	1	1	4	6								
						6		2	2	6									
WR279	4	2/0	3/0	4/0	2	1	1/0			2	2					1 13/16"	D	5	2
		1/0	2/0	3/0	4	2	1	3/0	3/0	4	4	.470	.336	.470	.336				
		1	1/0	2/0	6	3	2	2/0		6	6								
						6													
WR379	5	4/0	4/0	—	2	1	1/0	266 18/1	266	1	1					1 13/16"	D	5	2
		3/0			4	2	2	250	250	2	2	.563	.475	.332	.162				
					6	3	2	4/0	4/0	4	4								
						6				6									
WR399	6	4/0	4/0	—	2/0	1	2/0	266 18/1	266	3/0	3/0					2 3/16"	D	6	2
		3/0	3/0		1/0	2/0	3/0	4/0	250	2/0	2/0	.563	.461	.447	.338				
						2/0	3/0	4/0	1/0	1/0									
WR419	7	4/0	4/0	—	4/0	4/0	—	266 18/1	266	266 18/1	266					2 7/16"	D	7	3
		3/0	3/0		3/0	3/0		4/0	250	4/0	250	.563	.461	.563	.461				
								3/0	4/0	3/0	4/0								

Thomas & Betts

Blackburn®

Compression H-Tap Connectors



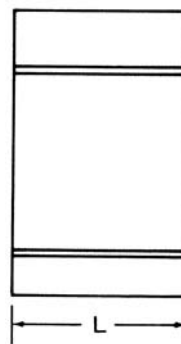
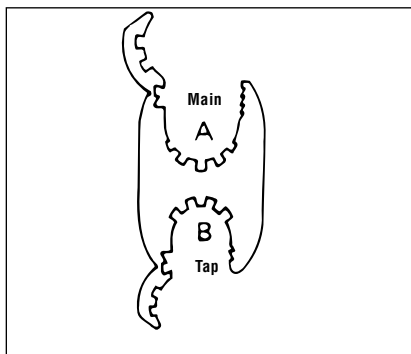
Blackburn®

Type WR – Supplemental “O” and “D” Die Connectors

Cat. No.	Conductor Range														Con- nector Length L	Installation Information		
	Standard Conductor						Compact Conductor				Diameter (in.)					Con- nector Die	No. Indents	
	Main			Tap			Main		Tap		Main		Tap				Mech. Tool	Hyd. Tool
	ACSR	Str.	Sol.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	max.	min.	max.	min.				
WR149	4 6	3 4 6	2 3 6	4 6	3 4 6	2 3 6	4 6	3 4 6	3 4 6	2 3 6	.266	.162	.266	.162	1½"	0	5	2
WR179	1/0 1 2 3	1/0 1 2	1	4 6	3 4 6	2 3 6	1/0 1 2	2/0 1/0 1 2	4 6	3 4 6	.398	.266	.266	.162	1¾"	0	5	2
WR199	1/0 1 2 3	1/0 1 2	1	2 3 4	1 2 3 4	1 2	1/0 1 2	2/0 1/0 1 2	1 2 3 4	2 1 3 4	.398	.266	.332	.232	1¾"	0	5	2
WR1010	1/0 1 2 3 4	2/0 1/0 1 2 3 4	1 2	1/0 1 2 3 4	2/0 1/0 1 2 3 4	1 2	2/0 1/0 1 2 3 4	2/0 1/0 1 2 3 4	1/0 1 2 3 4	2/0 1/0 1 2	.419	.232	.419	.232	1¾"	0	4	2
WR259	1/0 1	2/0 1/0	—	1/0 1	2/0 1/0	—	2/0 1/0	2/0 1/0	2/0 1/0	2/0 1/0	.419	.326	.412	.292	1⅞"	D	5	2
WR299	2/0 1/0	3/0 2/0	—	4 6	3 4 6	2 3 6	3/0 2/0	3/0	4 6	3 4 6	.470	.398	.266	.162	1½"	D	4	2
WR219	1/0 1	1/0 1	—	1/0 1 2	1/0 1	—	1/0	2/0 1/0	1/0	2/0 1/0	.398	.324	.398	.316	1⅞"	D	5	2
WR239	2/0 1/0	2/0 1/0	—	2 3 4	1 2 3	1 2	2/0 1/0	4/0 3/0	1 2 3 4	1 2	.447	.365	.332	.236	1⅞"	D	5	2
WR229	2/0	3/0 2/0	—	1/0 1 2	1/0 1	—	3/0 2/0	3/0	1/0 1	2/0 1/0	.470	.410	.398	.316	1⅞"	D	5	2
WR269	2/0	2/0	—	2/0 1/0	2/0 1/0	—	2/0	3/0	2/0 1/0	3/0 2/0 1/0	.447	.410	.447	.336	1⅞"	D	5	2

Blackburn®

Compression H-Tap Connectors



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Type WR – Supplemental “O” and “D” Die Connectors

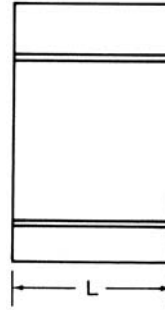
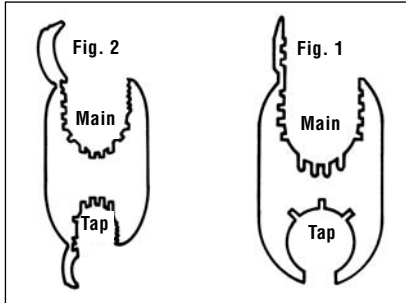
Cat. No.	Conductor Range														Con- nector Length L	Installation Information		
	Standard Conductor*						Compact Conductor				Diameter (in.)					Con- nector Die	No. Indents	
	Main			Tap			Main		Tap		Main		Tap				Mech. Tool	Hyd. Tool
	ACSR	Str.	Sol.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	max.	min.	max.	min.				
WR319	3/0	3/0	—	2 3 4	1 2 3 4	1 2	3/0	4/0	2 3 4	1 2	.502	.461	.332	.229	1⅞"	D	5	2
WR339	3/0	3/0	—	2/0 1/0 1	2/0 1/0	—	3/0	4/0	2/0 1/0	3/0 2/0 1/0	.502	.461	.447	.336	2⅛"	D	6	2
WR359	4/0 3/0	4/0 3/0	—	4 6	3 4 6	2 3 4 6	266 4/0 3/0	266 250 4/0	1/0 1 2	1/0 1 2	.563	.461	.266	.162	1⅞"	D	4	2
WR369	4/0 3/0	4/0 3/0	—	1 2 3 4	1/0 1 2 3	1	266 4/0 3/0	266 250 4/0	1/0 1 2	1/0 1 2	.563	.461	.374	.266	1⅞"	D	4	2
WR369**	4/0 3/0 2/0	4/0 3/0	—	1/0 1 2 3 4	1/0 1 2 3 4	1/0 1 2	266 4/0 3/0	266 250 4/0 3/0	1/0 1 2 3 4	1/0 1 2	.563	.423	.373	.232	1⅞"	D	5	2
WR389	4/0 3/0	4/0 3/0	—	2/0 1/0	3/0 2/0	—	266 4/0 3/0	266 250 4/0	3/0 2/0	3/0 2/0	.563	.461	.470	.376	2⅜"	D	6	2
WR389**	4/0 3/0 2/0	4/0 3/0	—	2/0 1/0 1	3/0 2/0 1/0	—	266 4/0 3/0	266 250 4/0	3/0 2/0 1/0	3/0 2/0 1/0	.563	.423	.470	.336	2⅜"	D	6	2

*Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed).

**This range possible only when crimped with hydraulic tool.

Blackburn®

Compression H-Tap Connectors



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Blackburn®

Type WR – Wide Range “N” Die Tap Connectors for Hydraulic Tools, 12-Ton and Greater

Cat. No.	Conductor Range													Con- nector Length L	Installation Information	
	Standard Conductor*					Compact Conductor				Diameter (in.)					For Use With Tool	No. of Indents
	Main		Tap			Main		Tap		Main		Tap				
	ACSR	Str.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	max.	min.	max.	min.			
WR715	397 ¹ / ₄ 336 266	400 397 350 336 300 266 250	2/0 1/0 1 2 3 4 6	2/0 1/0 1 2 3 4 6	3/0 2/0 1/0 1 2 3 4 6	477 397 336	500 477 397 350	2/0 1/0 1 2 3 4 6	3/0 2/0 1/0 1 2 3 4 6	.753	.520	.447	.162	2"	JB12A, JB12B, 12A and Y-35 tools	2
WR775	397 ¹ / ₄ 336 266 4/0	400 397 350 336 300 266 250 4/0	397 ¹ / ₄ 336 266 4/0	400 397 350 336 300 266 250 4/0	—	477 397 336 266	500 477 397 350 336 300 266 250	477 397 336 266	500 477 397 336 300 266 250	.743	.520	.743	.520	3"		3
WR815	477 ¹ / ₄ 397 336 266 4/0	556 500 400	2/0 1/0 1 2 3 4 6	2/0 1/0 1 2 3 4 6	3/0 2/0 1/0 1 2 3 4 6	556 477 397 336 266	556 477 397 336 266 250	2/0 1/0 1 2 3 4 6	3/0 2/0 1/0 1 2 3 4 6	.858	.520	.447	.162	2"		2
WR835			4/0 3/0 2/0 1/0	4/0 3/0 2/0 1/0	4/0 3/0 2/0	556 477	556 477	266 4/0 3/0 2/0	250 4/0 3/0	.858	.520	.563	.368	2"		2
WR875**			336 ¹ / ₄ 266	350 336 300 266 250	397 336	556 477 397 336 266	556 477 397 336 266 250	397 350 336 300 266 250	400 397 350 336 300 266 250	.858	.520	.684	.520	3"		3
WR885			477 ¹ / ₄ 397 336 266 4/0	500 400 397 350 336 300 266 250 4/0	477 ¹ / ₄ 397 336 266 4/0	500 400 397 350 336 300 266 250 4/0	—	556 477 397 336 266	556 477 397 350 336 300 266 250	556 477 397 336 266	556 477 397 350 336 300 266 250	.814	.520	.814		.520

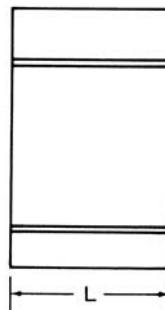
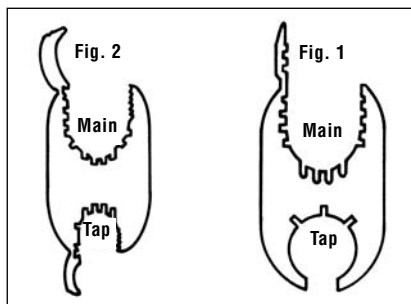
* Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed).

** Not reversible (Fig. 2)

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Blackburn®

Compression H-Tap Connectors



Type WR – Wide Range “N” Die Tap Connectors for Hydraulic Tools, 10-Ton and Greater

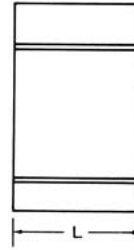
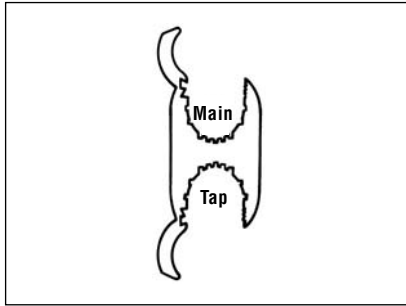
Cat. No.	Conductor Range												Con- nector Length L	Installation Information	
	Standard Conductor*					Compact Conductor				Diameter (in.)					
	Main		Tap			Main		Tap		Main		Tap			
	ACSR	Str.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	max.	min.	max.		min.	For Use With Tool
WR699	397 ¹⁹ / ₁ 336 266	400 397 350 336 300 266 250	4 6	3 4 6	2 3 4 6	477 397 336	477 397 350 336 300	4 6	2 3 4 6	.743	.570	.266	.162	2"	2
WR719			2/0 1/0 1 2 3	2/0 1/0 1 2	3/0 2/0 1/0 1			2/0 1/0 1 2 1	3/0 2/0 1/0 1			.447	.289	2"	2
WR739			4/0 3/0 2/0 1/0	4/0 3/0 2/0	4/0			266 4/0 3/0	266 250 4/0			.563	.398	2"	2
WR779			397 ¹⁹ / ₁ 336 266	400 397 350 336 266 250	477 397			477 397 336	477 397 336			.743	.570	3"	3
WR799	477 ¹⁹ / ₁ 266	500 250	4 6	3 4 6	2 3 4 6	477 ¹⁹ / ₁ 266	500 250	3 4 6	2 3 4 6	.814	.575	.270	.160	2"	2
WR819	477 ¹⁹ / ₁ 397 336	556 500 477 450 400 397 350 336	2/0 1/0 1 2 3	2/0 1/0 1 2	3/0 2/0 1/0 1	556 477 397	556 477 397	2/0 1/0 1 2	3/0 2/0 1/0 1	.858	.659	.477	.289	2"	2
WR839			4/0 3/0 2/0	4/0 3/0	4/0			266 4/0 3/0	266 250 4/0			.563	.477	2"	2
WR879**			336 ¹⁹ / ₁ 266	350 336 300 266	397			397 336	397 350 336			.684	.593	3"	3
WR889	477 ¹⁹ / ₁ 397 336	500 400 397 350 336	477 ¹⁹ / ₁ 397 336	500 400 397 350 336	—	556 477 397 336	556 477 397 350	556 477 397 336	556 477 397 350	.814	.666	.814	.666	3"	3

*Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed). Tap wire must be installed in B groove.

**Not reversible (Fig. 2).

Blackburn®

Compression H-Tap Connectors



Blackburn®

Type WR – Wide Range “R” Die Tap Connectors

Cat. No.	Conductor Range												Con- nector Length L	Installation Information					
	Standard Conductor				Compact Conductor				Diameter (in.)										
	Main		Tap		Main		Tap		Main		Tap								
	ACSR	Str.	ACSR	Str.	ACSR	Str.	ACSR	Str.	max.	min.	max.	min.							
WR909	556 ^{19/2} 477 397 336 300	600 556 550 500 400 477 450 400 397 350 336	336 ^{19/4} 266 4/0 250 3/0 4/0 2/0 3/0 1/0	350 336 266 250 4/0 266 250 4/0 2/0	636 556 477 397	700 636 556 500 477 450	397 ^{1/2} 350 336 300 266 250 4/0 3/0	.893	.666	.684	.398	4 ^{3/4}	JB60A, JB60B, Y60, 60A and PH-3 tools	R	4				
WR929			556 ^{19/4} 477 397 336 300	600 556 550 500 477 450 400 397 350 336			636 556 477 397			700 636 556 477 450	.893	.666		4 ^{3/4}	R	4			
WR949			336 ^{19/4} 266 4/0 3/0 2/0 1/0	350 336 266 250 4/0 266 250 4/0 2/0			397 ^{19/4} 350 336 300 266 250 4/0 3/0 2/0				.684	.398		4 ^{3/4}	R	4			
WR969			795 ^{25/2} 715 666 636 605 556 477 ^{25/2}	900 874 800 795 750 715 700 636 600			600 556 550 500 477 450 400 397 350 336			636 556 477 397	700 636 556 477 450	1.108		.883	.893	.666	4 ^{3/4}	R	4
WR989			795 ^{25/2} 715 666 636 605 556 477 ^{25/2}	900 874 800 795 750 715 700 636 600			954 874 795			1000 954 874 795	1.108				.883	4 ^{3/4}	R	4	
WR999	954 ^{45/2} 900 874 795 715 666	1033 1000 900 800 795 750	954 ^{45/2} 900 874 795 715 666	1033 1000 900 800 795 750	954 900	1000 900	954 900 874	1000 900	1.172	.997	1.172	.997	4 ^{3/4}	R	4				

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Compression H-Tap Connectors

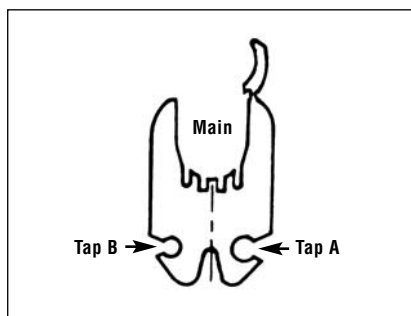


Fig. 1

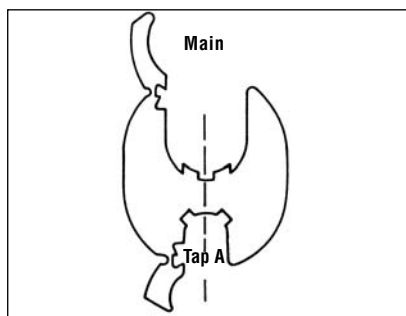
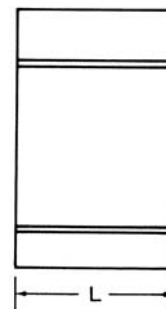


Fig. 2



Type WR – Street Lighting Compression Connectors

Cat. No.	Figure No.	Conductor Range														Con- nector Length L	Installation Information			
		Standard Conductor*								Diameter (in.)							Con- nector Die	No. Indents		
		Main			Tap A		Tap B		Main		Tap A		Tap B		Mech. Tool			Hyd. Tool		
		ACSR	Str.	Sol.	Str.	Sol.	Str.	Sol.	max.	min.	max.	min.	max.	min.						
WR9	2	3 4 6	2 3 4 6	1 2 3 4	8 10 12 14	8 10 12 14	—	—	.292	.184	.146	.064	—	—	13/16" ^A	5/8 BG	3	—		
WR139	1	1/0 1 2 3 4	2/0 1/0 1 2 3	1 2	8 10	6 8 10	12 14	12 14	.419	.250	.162	.100	.092	.064	1 1/2" ^A	0	4	2		
WR502	1	4/0 3/0	4/0 3/0	—	8 10	6 8 10	12 14	12 14	.563	.461	.162	.100	.092	.064	1 1/2" ^A	D	4	—		
WR502**	1	4/0 3/0 2/0 1/0	4/0 3/0 2/0 1/0	—	8 10	6 8 10	12 14	12 14	.563	.365	.162	.100	.092	.064	1 1/2" ^A	D	—	2		

* Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed).

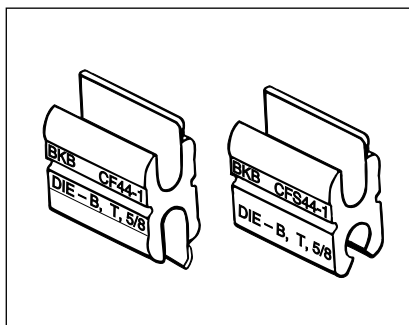
** This range possible only when crimped with hydraulic tool.

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Compression H-Tab Connectors



- For tapping copper conductors to unbroken main copper conductors.
- Extruded pure electrolytic copper.
- Full length tab for easy installation.
- Efficient design for lower crimping force.
- Standard compression tools and dies.
- Single and double tab designs.
- RUS listed.

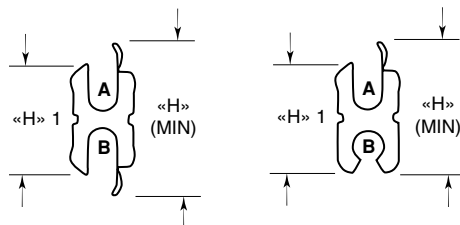
Type CF – Copper Compression Tap Connectors

Cat. No.	Figure No.	Conductor Range								Dimensional Information			Installation Information						
		Standard Conductor*				Diameter (in.)*							Mechanical Tools***			Hydraulic Tools***			
		Main		Tap		Main		Tap		"H" (min.)	"H" 1	Connector Length	OD 58	Type O	MD Series	JB12A JB12B	H Series	Y-35	TBM15/TBM15PF Y45/Y46
CF44-1	1	4 6	6	4 6 8	6	.204	.162	.204	.128	.971	.729	13/16"	B,T 5/8	B,T 5/8	W-KB W-BG	BKT	B	BKT U-BG	BKT U-BG
CFS44-1	2	4 6	6	4 6 8	8	.204	.162	.204	.128	.864	.743		B,T 5/8	B,T 5/8	W-KB W-BG	BKT	BKT	BKT U-BG	BKT U-BG
CF22-1	1	2 4	4	2 4	4	.258	.204	.258	.204	1.162	.813	13/16"	K	K	W-KK	—	—	—	BKT
CFS22-1	2	2 4	4	2 6	6	.258	.204	.258	.162	1.017	.842		K	K	W-KK	W-KK	BKT	BKT	BKT
CF102-1	1	—	1/0 1 2	2 4 6	4	.373	.292	.258	.162	1.540	1.100	27/32"	—	—	—	O	O	O	O
CF1010-1	1	—	1/0 1 2	—	1/0 1 2	.373	.292	.373	.292	1.610	1.050		—	—	—	O	O	O	O
CF202-1	1	—	2/0 1/0	—	2/0 1/0 1 2	.419	.368	.258	.204	1.670	1.269	7/8"	—	—	—	K-C	C	K-C	K-C
CF2020-1	1	—	2/0 1/0	—	2/0 1/0 1 2	.419	.368	.414	.292	1.740	1.220		—	—	—	K-C	C	K-C	K-C
CF402-1	1	—	4/0 3/0 2/0	2 4	4	.528	.414	.258	.204	1.983	1.423	1 1/8"	—	—	—	D**	D**	D**	D**
CF4010-1	1	—	4/0 3/0 2/0	—	1/0 1 2	.528	.414	.373	.292	1.992	1.423		—	—	—	D**	D**	D**	D**
CF4040-1	1	—	4/0 3/0 2/0	—	4/0 3/0 2/0	.528	.414	.528	.414	2.252	1.483		—	—	—	D**	D**	D**	D**

*Decimal dimensions are for conventional conductor, not Copperweld or Alumoweld.

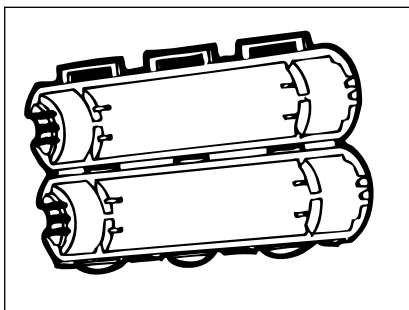
**Blackburn "D" dies.

***Three indents with mechanical tools and one indent with hydraulic tools. 15 ton/head use appropriate die adapters.

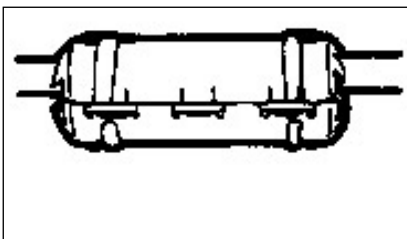


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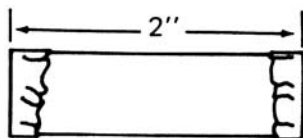
Compression H-Tap Connectors/Service Entrance Connectors



- Hinged polyethylene cover.
- Installs easily, quickly—less expensive than taping.
- Positive snap-locks fasten securely.
- Drain ports prevent accumulation of corrosion-causing moisture.
- Ultra-violet stabilized.



- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Pass the requirements of ANSI C119.4.
- Sleeves are made of highly conductive aluminum.
- Quick identification with colour-coded foil caps.
- Install with standard compression dies.



Installation Information

Cat. No.	Installation Dies	
	Mech.	Hyd.
All	¾ (OD58 Tool) Peach, BG, G, TU	U-BG B58CS, 52

Type C – Compression Connector Covers

Cat. No.	Capacity*	Dimension		
		Height	Length	Width
C2BB	All ⅝" O.D., sleeves 2" long or less	1.10	4.00	1.05
C5C	All "O" Die taps, 1¾" long or less	1.60	3.75	1.25
C7C	All "D" Die taps, 2½" long or less	1.80	5.00	1.45
C9	All "N" and "D" die taps, up to 2" long	2.75	4.25	2.00
C9L	All "N" and "D" die taps, up to 5" long	2.75	7.25	2.00

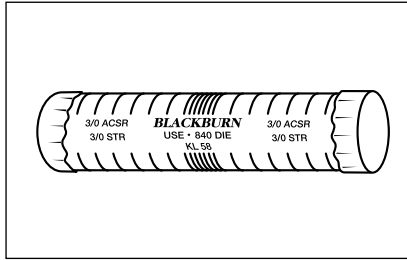
*Before compression

Types CS and CSC – Service Entrance Sleeves, ⅝ Die

Cat. No.		End "A"					End "B"				
		Conductor Range				Colour Code	Conductor Range				Colour Code
		ASCR	AWG	Diameter (in.)			ASCR	AWG	Diameter (in.)		
max.	min.			max.	min.						
CS61†	CSC61	—	8 str. 6 sol.	.162	.146	Green	—	8 str. 6 sol.	.162	.146	Green
CS62†	CSC62	6⅞	6 str. 4 sol.	.204	.184	Blue	1	10 str. 8 sol.	.128	.116	Brown
CS63†	CSC63	6⅞	6 str. 4 sol.			Blue	—	8 str. 6 sol.	.162	.146	Green
CS64†	CSC64	6⅞	6 str. 4 sol.			Blue	6⅞	6 str. 4 sol.	.204	.184	Blue
CS65†	CSC65	4⅞ ¼	3-4 str. 2 sol.			Orange	—	10 str. 8 sol.	.128	.116	Brown
CS66†	CSC66	4⅞ ¼	3-4 str. 2 sol.	.258	.232	Orange	—	8 str. 6 sol.	.162	.146	Green
CS67†	CSC67	4⅞ ¼	3-4 str. 2 sol.			Orange	6⅞	6 str. 4 sol.	.204	.184	Blue
CS68†	CSC68	4⅞ ¼	3-4 str. 2 sol.			Orange	4⅞ ¼	3-4 str. 2 sol.	.258	.232	Orange
CS69†	CSC69	2⅞ ¼	1-2 str.			Red	—	10 str. 8 sol.	.128	.116	Brown
CS70†	CSC70	2⅞ ¼	1-2 str.	.328	.292	Red	—	8 str. 6 sol.	.162	.146	Green
CS71†	CSC71	2⅞ ¼	1-2 str.			Red	6⅞	6 str. 4 sol.	.204	.184	Blue
CS72†	CSC72	2⅞ ¼	1-2 str.			Red	4⅞ ¼	3-4 str. 2 sol.	.258	.232	Orange
CS73†	CSC73	2⅞ ¼	1-2 str.			Red	2⅞ ¼	1-2 str.	.328	.292	Red
CS74†	CSC74	1/0	1/0 str.	.398	.368	Yellow	—	8 str. 6 sol.	.162	.146	Green
CS75†	CSC75	1/0	1/0 str.			Yellow	6⅞	6 str. 4 sol.	.204	.184	Blue
CS76†	CSC76	1/0	1/0 str.			Yellow	4⅞ ¼	3-4 str. 2 sol.	.258	.232	Orange
CS77†	CSC77	1/0	1/0 str.			Yellow	2⅞ ¼	1-2 str.	.328	.292	Red
CS78†	CSC78	1/0	1/0 str.	.414	.414	Yellow	1/0	1/0 str.	.398	.368	Yellow
CS84†	CSC84	—	2/0 str.			Grey	1/0	1/0 str.	.398	.368	Yellow
CS85†	CSC85	—	2/0 str.			Grey	—	2/0 str.	.414	.414	Grey

†RUS Listed.

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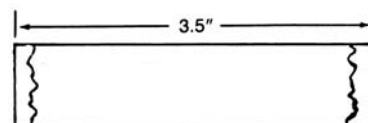
- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Pass the requirements of ANSI C119.4.
- Splices large conductors required for commercial service; use as low cost reducing sleeve.
- All sizes can be installed with popular mechanical and hydraulic tools.
- Center stop assures proper conductor positioning.
- Quick identification with colour-coded foil caps.

Installation Information

Cat. No.	Installation Dies	
	Mech.	Hyd.
All	840, W-K840 EEI-11A, TX	840, U-K840 U-249, B49EA

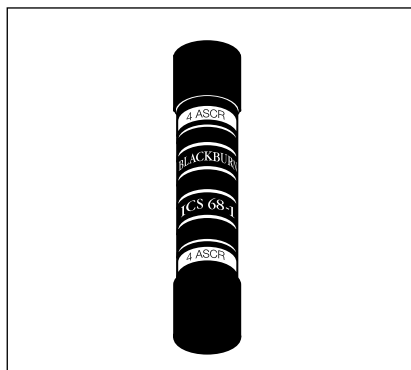
Type KL – Large Compression Service Entrance Sleeves, 840 Die

Cat. No.	End “A”				End “B”			
	Conductor Range			Color Code	Conductor Range			Color Code
		Diameter (in.)				Diameter (in.)		
		max.	min.			max.	min.	
KL20-1	6 str. 6 str. compact	.184	.167	Blue	6 str. 6 str. compact	.184	.167	Blue
KL22-1	4 str. 4 str. compact	.232	.211	Orange	4 str. 4 str. compact	.232	.167	Orange
KL25-1	2 str. 2 str. compact	.292	.266	Red	2 str. 2 str. compact	.292	.266	Red
KL31-1	1/0 sol. Al, 1 str. 2 ACSR, 1/0 str. comp	.336	.316	Red	1/0 sol. Al, 1 str. 1 str. compact 2 ACSR	.336	.316	Red
KL36-1	1/0 ACSR 1/0 str. 2/0 str. compact	.398	.368	Yellow	1/0 ACSR 1/0 str. 2/0 str. compact	.398	.368	Yellow
KL45-1	2/0 ACSR 2/0 str. 3/0 str. compact	.448	.414	Gray	2 ACSR, 1–2 str. 1 str. compact	.328	.292	Red
KL46-1					1/0 ACSR, 1/0 str. 2/0 str. compact	.398	.368	Yellow
KL47-1					2/0 ACSR, 2/0 str. 3/0 str. compact	.448	.414	Gray
KL54-1	3/0 ACSR 3/0 str. 4/0 str. compact	.502	.464	Black	4 ACSR, 3–4 str. 2 sol.	.258	.232	Orange
KL55-1					2 ACSR, 1–2 str. 1 str. compact	.328	.268	Red
KL56-1					1/0 ACSR, 1/0 str. 2/0 str. compact	.398	.368	Yellow
KL57-1					2/0 ACSR, 2/0 str. 3/0 str. compact	.448	.414	Gray
KL58-1					3/0 ACSR, 3/0 str. 4/0 str. compact	.502	.464	Black
KL64-1	4/0 ACSR 4/0 str.	.563	.522	Pink	4 ACSR, 3–4 str. 2 sol.	.258	.232	Orange
KL65-1					2 ACSR, 1–2 str. 1 str. compact	.328	.268	Red
KL66-1					1/0 ACSR, 1/0 str. 2/0 str. compact	.398	.368	Yellow
KL67-1					2/0 ACSR, 2/0 str. 3/0 str. compact	.448	.414	Gray
KL68-1					3/0 ACSR, 3/0 str. 4/0 str. compact	.502	.464	Black
KL69-1					4/0 ACSR, 4/0 str.	.563	.522	Pink



Blackburn®

Service Entrance Connectors



- Pre-insulated for fast, easy installation with standard tools.
- For combinations of aluminum and alu-minum-copper conductors.
- Pass the requirements of ANSI C119.4.

Installation Information

Cat. No.	Installation Dies	
	Mech.	Hyd.
All	½ (OD58 Tool) Peach, BG, W-BG, G, TU	U-BG B58CS

Type ICS – Service Entrance Sleeves, 5/8 Die

Cat. No.	End "A"					End "B"				
	Conductor Range				Colour Code	Conductor Range				Colour Code
	ASCR	AWR	Diameter (in.) max. min.			ASCR	AWR	Diameter (in.) max. min.		
ICS61-1	—	8 str. 6 sol.	.162	.144	Green	—	8 str. 6 sol.	.162	.144	Green
ICS62-1	6	6 str. 4 sol.	.204	.184	Blue	—	10 str. 8 sol.	.128	.114	Brown
ICS63-1						—	8 str. 6 sol.	.162	.144	Green
ICS64-1						6	6 str. 4 sol.	.204	.184	Blue
ICS65-1	4	3-4 str. 2 sol.	.258	.213	Orange	—	10 str. 8 sol.	.128	.114	Brown
ICS66-1						—	8 str. 6 sol.	.162	.144	Green
ICS67-1						6	6 str. 4 sol.	.204	.184	Blue
ICS68-1						4	3-4 str. 2 sol.	.258	.213	Orange
ICS70-1	2	1-2 str.	.328	.268	Red	—	8 str. 6 sol.	.162	.144	Green
ICS71-1						6	6 str. 4 sol.	.204	.184	Blue
ICS72-1						4	3-4 str. 2 sol.	.258	.213	Orange
ICS73-1						2	1-2 str.	.328	.268	Red
ICS74-1	1/0	1/0	.398	.368	Yellow	—	8 str. 6 sol.	.162	.146	Green
ICS75-1						6	6 st 4 sol.	.204	.184	Blue
ICS76-1						4	3-4 str. 2 sol.	.258	.213	Orange
ICS77-1						2	1-2 str.	.328	.268	Red
ICS78-1						—	1/0 str.	.398	.368	Yellow

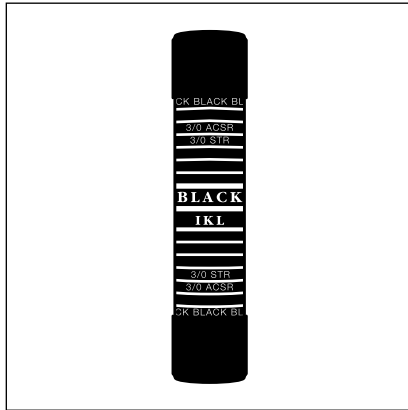
All are RUS Listed.

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Blackburn®

Blackburn®

Service Entrance Connectors



- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Pass the requirements of ANSI C119.4.
- Use as a low tension reducing sleeve for insulated conductor.
- Pre-insulated for fast, easy installation of large home or commercial service entrances.
- Concave polyethylene end caps seal out dirt, but are easily pierced when inserting conductor.

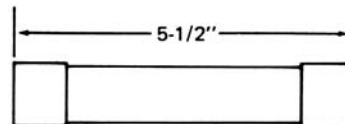
Installation Information

Cat. No.	Installation Dies	
	Mech.	Hyd.
All	BY37, 840 W-K840, TX	B49EA, 840 U-K840, U-249

Type IKL – Insulated Service Entrance Sleeves, 840 Die

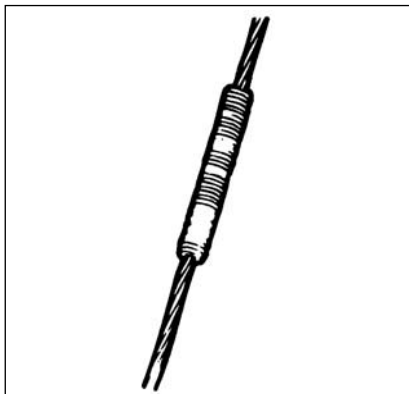
Cat. No.	End “A”				End “B”			
	Conductor Range			Colour Code	Conductor Range			Colour Code
		Diameter (in.)				Diameter (in.)		
		max.	min.			max.	min.	
IKL34	1/0 ACSR 2/0 str. 1/0 str. (compact)	.398	.365	Yellow	4 ACSR 3–4 str., 2 sol.	.258	.213	Orange
IKL35					2 ACSR 1–2 str.	.328	.268	Red
IKL36					1/0 ACSR 1/0 str. 2/0 str. comp	.398	.365	Yellow
IKL44	2/0 ACSR 2/0 str. 3/0 str. (compact)	.448	.414	Grey	4 ACSR 3–4 str., 2 sol.	.258	.213	Orange
IKL45					2 ACSR 1–2 str.	.328	.268	Red
IKL46					1/0 ACSR 1/0 str. 2/0 str. comp	.398	.365	Yellow
IKL47					2/0 ACSR 2/0 str. 3/0 str. comp	.448	.414	Grey
IKL54	3/0 ACSR 3/0 str. 4/0 str. (compact)	.502	.464	Black	4 ACSR 3–4 str., 2 sol.	.258	.213	Orange
IKL55					2 ACSR 1–2 str.	.328	.268	Red
IKL56					1/0 ACSR 1/0 str. 2/0 str. comp	.398	.365	Yellow
IKL57					2/0 ACSR 2/0 str. 3/0 str. comp	.448	.414	Grey
IKL58					3/0 ACSR 3/0 str. 4/0 str. comp	.502	.464	Black
IKL64	4/0 ACSR 4/0 str.	.564	.522	Pink	4 ACSR 3–4 str., 2 sol.	.258	.213	Orange
IKL65					2 ACSR 1–2 str.	.328	.268	Red
IKL66					1/0 ACSR 1/0 str.	.398	.365	Yellow
IKL67					2/0 ACSR 2/0 str. 3/0 str. comp	.448	.414	Grey
IKL68					3/0 ACSR 3/0 str. 4/0 str. comp	.502	.464	Black
IKL69					4/0 ACSR 4/0 str.	.564	.522	Pink

All are RUS Listed.



Blackburn®

Service Entrance Connectors



Type TR – Triplex Neutral Splice, Semi-Tension, 5/8 Die

Cat. No.	Conductor Range		Conductor Diameter*		Cap Colour	Length
	ACSR	AWG	max.	min.		
TR61	6	6 str. 4 sol.	.204	.184	Blue	4 1/4"
TR63	4	4 str. 2 sol.	.258	.232	Orange	4 1/4"
TR64	2	2 str.	.316	.292	Red	4 1/4"
TR65	1	1/0 str.	.373	.355	Yellow	6"
TR66	1/0	—	.398	.373	Yellow	6"

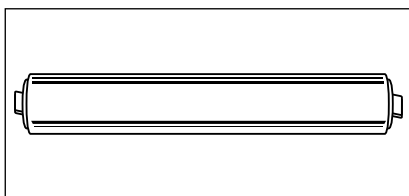
*Decimal dimensions are for conventional conductor, not Copperweld or Alumoweld.

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Blackburn®

Installation Information

Cat. No.	Installation Dies
All	5/8, Peach, G, TU



- Non tension splice frequently used for service entrance on commercial-industrial loads.
- For end-to-end splicing of aluminum to copper conductor, #4/0 str. through 1000 MCM.
- Prefilled with oxide inhibitor.
- Passes the requirements of ANSI C119.4.

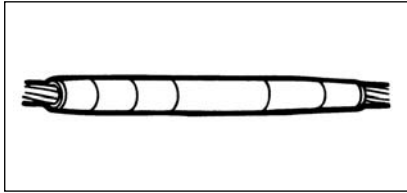
Type RS – Aluminum Compression Splice

Cat. No.	End "A"		End "B"		Length	Installation Dies Hydraulic Tool
	Conductor Range		Conductor Range			
	max.-min.	Diameter (in.) max.-min.	max.-min.	Diameter (in.) max.-min.		
RS253	300-250 MCM	.630-.574	4/0	.528	6"	B20AH 318 1 ¹ / ₁₆
RS2525	300-250 MCM	.630-.574	300-250 MCM	.630-.574		
RS403	400-336 MCM	.726-.666	4/0	.528	7 ¹ / ₂ "	
RS4025	400-336 MCM	.726-.666	300-250 MCM	.630-.574		
RS4040	400-336 MCM	.726-.666	400-336 MCM	.726-.666		
RS4525	500-450 MCM	.813-.770	300-250 MCM	.630-.574		
RS4540	500-450 MCM	.813-.770	400-336 MCM	.726-.666		
RS4545	500-450 MCM	.813-.770	500-450 MCM	.813-.770		
RS8080	800-750 MCM	1.029-.997	800-750 MCM	1.029-.997	8"	6030AH 352
RS100100	1000-900 MCM	1.152-1.092	1000-900 MCM	1.152-1.092		

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Blackburn®

Distribution Compression Connectors



- Meets the 40% partial tension requirement of ANSI C119.4.

F

Blackburn®

Type ACJ – Aluminum Jumper Sleeves for All Aluminum Conductor

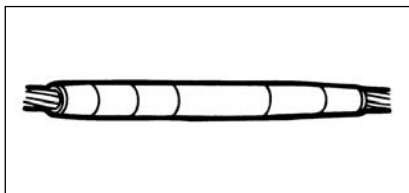
Cat. No.	Conductor (Stranding)	Lgth.	Mechanical Tools						Hydraulic Tools						EEI Classi- fication
			OD58*		MD Series		O-52		JB12B		Y Series		WH Series		
			Dies	Crimps per End	Die Index	Crimps per End	Dies	Crimps per End	Dies Cat. Nos.	Crimps per End	Die Index	Crimps per End	Die Index	Crimps per End	
ACJ20	2/0(7, 19)	4¾"	BY33	8	C-167 W-247	8 4	737	8	B39EA	2	247	2	737 747	4 4	10A
ACJ205	2/0(7, 19)	4¾"	BY41	4	W-245	4	635	4	B30EA	2	245	2	5⁄8-1 635	4 2	9A
ACJ30	3/0(7, 19)	4¾"	BY35	8	W-247	4	781	8	B74AH	2	247	2	781	4	—
ACJ40	4/0(7, 19)	4¾"	BY37	8	W-249	4	840	8	B49EA	2	249	2	840	4	11A
ACJ266	266.8(7, 19)	5¾"	—	—	—	—	—	—	B75AH	3	251	3	1½	3	—
ACJ336	336.4(19, 37)	5¾"	—	—	—	—	—	—	B80EA	3	321	3	1½-1	3	13A
ACJ350	350(19)	6¾"	—	—	—	—	—	—	B80EA	5	490 547	5	1½-1	5	13A
ACJ397	397.5(19)	6¾"	—	—	—	—	—	—	B80EA	4	468	4	1½-1	4	13A
ACJ477	477, 500 (19, 37)	9½"	—	—	—	—	—	—	B80EA	6	317 426	6	1½-1	6	13A
ACJ556	556.5(19, 37)	9¾"	—	—	—	—	—	—	B76AH	8	318	9	1½-1	11	—

*OD58 dies are interchangeable with those listed for O-52.

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Blackburn®

Distribution Compression Connectors



- Meets the 40% partial tension requirement of ANSI C119.4.

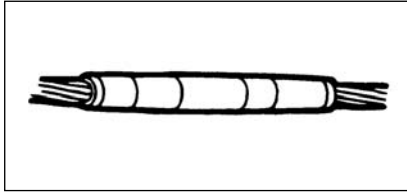
Type RCJ – Aluminum Jumper Sleeves for ACSR, AAAC, 5005, AAC Conductor

			Mechanical Tools						Hydraulic Tools						
			OD58*		MD Series		O-52		JB12B		Y Series		WH Series		
Cat. No.	Conductor (Stranding)	Lgth.	Dies	Crimps per End	Die Index	Crimps per End	Dies	Crimps per End	Dies Cat. Nos.	Crimps per End	Die Index	Crimps per End	Die Index	Crimps per End	EEL Classi- fication
RCJ10 ⁺	1/0 ACSR(7/4)	6½"	737	12	W-C	12	737	12	B39EA	3	167	6	737	6	10A
	1/0 AAAC(7)		747	6	W-702	4	747	6			247	3	747	3	
	1/0 5005(7)														
	1/0 AAC(7)														
RCJ20 ⁺	2/0 ACSR(7/4)	6¾"	781	13	—	—	781	13	B74AH	3	659	3	¾	3	—
	2/0 AAAC(7)														
	2/0 5005(7)														
	2/0 AAC(7)														
RCJ30 ⁺	3/0 ACSR(7/4)	6¾"	—	—	—	—	—	—	B49EA	3	658	3	29/32	3	11A
	3/0 AAAC(7)														
	3/0 5005(7)														
	3/0 AAC(7)														
RCJ40BB ⁺	4/0 ACSR(7/4)	6¾"	—	—	—	—	—	—	B61EA	3	654	3	1.00	3	12A
	4/0 AAAC(7)														
	4/0 5005(7)														
	4/0 AAC(7)														
RCJ266 ⁺	266.8 ACSR(19/4)	7"	—	—	—	—	—	—	B80EA	3	655	3	1⅞-1	3	13A
RCJ336 ⁺	336.4 ACSR(19/4)	7"	—	—	—	—	—	—	B80EA	3	655	3	1⅞-1	3	13A
RCJ397	397.5 ACSR(19/4)	7¼"	—	—	—	—	—	—	B20AH	4	327	4	1⅞-1	4	14A
	336.4(26-7)														
	336.4(30-7)														
RCJ477	477 ACSR(19/4)	8¾"	—	—	—	—	—	—	B20AH	5	318	5	1⅞16	5	14A
RCJ477M	477 ACSR(29/2)	9"	—	—	—	—	—	—	B76AH	5	318	8	1⅞	6	—

* OD58 dies are interchangeable with those listed for O-52.

† RUS Listed.

Type AC — Single Sleeve, Full Tension Splice for All Aluminum Conductor



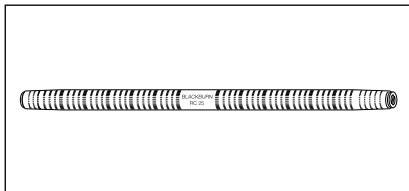
- Center stop assures proper conductor positioning.
- External end taper provides conductor stress relief, ease of stringing and corona protection.

- Internal end chamfer allows easy conductor insertion and prevents sharp edge contact with conductor.
- Fully tested to meet electrical and mechanical requirements of ANSI C119.4; will with-stand 95% of conductor rated breaking strength.

Blackburn®

Cat. No.	Conductor (Stranding)	Lgth.	Mechanical Tools						Hydraulic Tools						EEI Classi- fication
			OD58*		MD Series		O-52		JB12B		Y Series		WH Series		
			Dies	Crimps per End	Die Index	Crimps per End	Dies	Crimps per End	Dies Cat. Nos.	Crimps per End	Die Index	Crimps per End	Die Index	Crimps per End	
AC6	6(7)	3"	BY19	4	W-161	2	5/16	4	B73SH	1	161	1	5/16	3	—
AC4	4(7)	3"	BY21	4	W-162	4	3/8	4	B71AH	1	162	1	3/8	3	—
AC2	2(7)	4 1/8"	BY23	6	W-163	6	1/2	6	B17EA	2	163	2	1/2 510	4 3	6A
AC10	1/0 (7, 19)	7 1/4"	BY31	12	BG W-243 W-687	12 12 6	5/8-1	12	B24EA	3	243	3	5/8-1 635	6 3	8A
AC20	2/0 (7, 19)	9 1/4"	BY33	16	C-167 W-247	16 8	737	16	B39EA	4	247	4	737 747	8 4	10A
AC205	2/0 (7, 19)	9 1/4"	BY41	8	W-245	8	635	8	B30EA	4	245	4	635	4	9A
AC30	3/0 (7, 19)	8"	BY35	16	W-247	8	781	16	B74AH	4	247	4	781	8	—
AC40	4/0 (7, 19)	9 1/2"	BY37	12	W-249	12	840	12	B49EA	6	249	6	840	12	11A
AC266	266.8 (7, 19)	8 5/8"	—	—	—	—	—	—	B75AH	7	251	7	1.00	7	—
AC336	336.4 (19, 37)	10"	—	—	—	—	—	—	B80EA	8	321	8	1 1/8-1	8	13A
AC350	350 (19)	11"	—	—	—	—	—	—	B80EA	9	490 547	9 9	1 1/8-1	9	13A
AC397	397.5 (19)	12 1/8"	—	—	—	—	—	—	B80EA	8	468	8	1 1/8-1	8	13A
AC477	477 (19, 37)	13 1/2"	—	—	—	—	—	—	B80EA	9	317 426	9 9	1 1/8-1	9	13A
AC556	556 (19, 37)	13 1/2"	—	—	—	—	—	—	B76AH	9	318	13	1 1/16	16	—

* OD58 dies are interchangeable with those listed for O-52.

Blackburn®**Distribution Compression Connectors****Type RC — Single Sleeve, Full Tension Splice, for ACSR, AAAC, 5005, AAC Conductor**

- Center stop assures proper conductor positioning.
- Replaces two-piece splices.
- External end taper provides conductor stress relief, ease of stringing and corona protection.

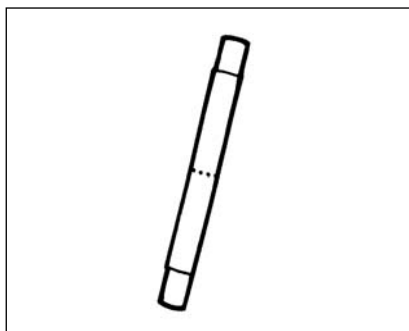
- Internal end chamfer allows easy conductor insertion and prevents sharp edge contact with conductor.
- Tested to meet electrical and mechanical requirements of ANSI C119.4; will withstand 95% of conductor rated breaking strength.

Cat. No.			Conductor (Stranding)			Lgth.			Mechanical Tools						Hydraulic Tools						EEL Classification
									OD58*		MD Series		O-52		JB12B		Y Series		WH Series		
									Dies	Crimps per End	Die Index	Crimps per End	Dies	Crimps per End	Dies Cat. Nos.	Crimps per End	Die Index	Crimps per End	Die Index	Crimps per End	
RC4BB†	4ACSR(1/2, 1/4)	12"	1/2		W-163		1/2		B72AH	6	163	6	1/2 510	12 6	—						
	4AAAC(7)																				
	4 5005(7)																				
	4AAC(7)																				
RC45†	4ACSR(1/2, 1/4)	12"	5/8–1 635		BG W-BG W-243		5/8–1 635		B24EA	6	243 687	6 6	5/8–1 635	12 6	8A						
	4AAAC(7)																				
	4 5005(7)																				
	4AAC(7)																				
RC2BB†	2ACSR(1/2, 1/4)	13 3/8"	5/8–1 635		BG W-245		5/8–1 635		B24EA B30EA	7	245 687	7 7	5/8–1 635	14 7	9A						
	2AAAC(7)																				
	2 5005(7)																				
	2AAC(7)																				
RC25†	2ACSR(1/2, 1/4)	13 5/8"	737 747		W-C W-247 W-702		737 747		B39EA	7	167 247 702	14 14 7	737 747	14 7	10A						
	2AAAC(7)																				
	2 5005(7)																				
	2AAC(7)																				
RC10†	1/0 ACSR(1/2)	15 1/4"	737 747		W-C W-702		737 747		B39EA	8	167 247 702	8 8 8	737	16	10A						
	1/0 AAAC(7)																				
	1/0 5005(7)																				
	1/0 AAC(7)																				
RC205†	2/0 ACSR (1/2)	17"	737 747	36 18	W-702	18	737 747	36 18	B39EA	9	247	9	—	—	10A						
RC20†	2/0 ACSR(1/2)	16"	781	32	—	—	781	32	B74AH	Overlap	659	Overlap	3/4	Overlap	—						
	2/0 AAAC(7)																				
	2/0 5005(7)																				
	2/0 AAC(7)																				
RC30†	3/0 ACSR(1/2)	17"	—	—	—	—	—	—	B49EA	Overlap	658	Overlap	29/32	Overlap	11A						
	3/0 AAAC(7)																				
	3/0 5005(7)																				
	3/0 AAC(7)																				
RC40†	4/0 ACSR(1/2)	18 1/2"	—	—	—	—	—	—	B61EA	Overlap	654	Overlap	1.00 1–2	Overlap	12A						
	4/0 AAAC(7)																				
	4/0 5005(7)																				
	4/0 AAC(7)																				
RC336	336.4 ACSR(11/4)	19 1/4"	—	—	—	—	—	—	B80EA	Overlap	655	Overlap	1 1/8–1 1 1/8–2	Overlap	13A						
RC397	397.5 ACSR(11/4)	21 1/2"	—	—	—	—	—	—	B20AH	Overlap	327	Overlap	1 1/8–1 1 1/8–2	Overlap	14A						
RC477	477 ACSR(11/4)	24"	—	—	—	—	—	—	B78AH	Overlap	788	Overlap	1 1/16	Overlap	—						

† RUS Listed

* OD58 dies are interchangeable with those listed for O-52.

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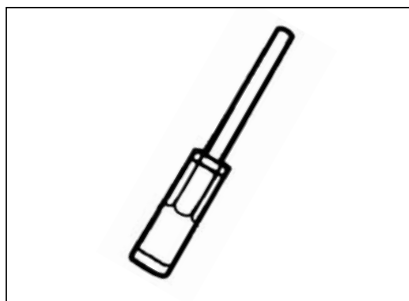
Blackburn®**Distribution Compression Connectors**

- Meets the full requirements of ANSI C119.4.

Type CTS – Copper Full Tension Splice for Solid, Stranded and Copperweld Conductor

Cat. No.	Conductor (Stranding)	Lgth.	Mechanical Tools						Hydraulic Tools					
			OD58		MD Series		O-52		JB12B		Y Series		WH Series	
			Dies	Crimps per End	Die Index	Crimps per End	Dies	Crimps per End	Dies Cat. Nos.	Crimps per End	Die Index	Crimps per End	Die Index	Crimps per End
CTS8	8 sol.	2	J 5/16	3 4	J 5/16	3 4	161	3	—	—	—	—	—	—
CTS6	6 sol.	2½	J 5/16	4 5	J 5/16	4 5	161	4	—	—	—	—	—	—
CTS4	4 sol.	2¾	P	5	P	5	162	5	—	—	—	—	—	—
CTS27	2–7 str.	3¼	½	6	½	6	163	5	—	—	—	—	—	—
CTS407	4/0 str.	7¼	—	—	—	—	—	—	—	—	168	9	840	9
CTS6ACW*	6 ACW	5½	P	10	P	10	162	10	—	—	—	—	—	—

* For Copperweld conductor applications only.



- Designed for use in joining aluminum secondaries and services to copper transformer bushings.
- Sleeves are highly conductive aluminum.
- Pigtails are solid copper, tin plated.
- Installed with standard tools and dies.
- Prefilled with oxide inhibitor.

Types PCS, PKL and PRS – Pigtail Compression Sleeves

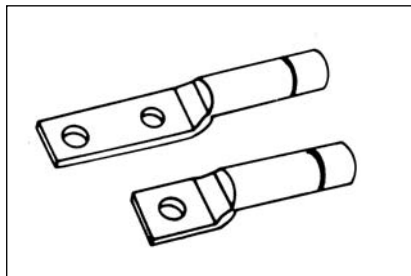
Cat. No.	Conductor Range Aluminum				Copper Pigtail		Installation Dies			
	ACSR	Str.	Compact	Solid	Diameter	Length	Mechanical Tool	Hydraulic Tool		
PCS64	6	6	—	4	.204	2½	Peach ¾ BG TU	U-BG 52		
PCS67	4	4		2						
PCS71	2	1–2								
PCS76	1/0	1/0		—		.258	6	840 K840 TX	840 B48EA EEI 11A K840, U249 76	
PKL36-1										
PKL46-1					2/0					2/0
PKL56-1					3/0	3/0				
PKL66-1	4/0	4/0				.365				
PKL31-1	—	1	1, 1/0	1/0	.325	6¼	—	B80EA, CSA 26, 96H, EEI 13A 655, 1½		
PKL365-1		1/0	1/0, 2/0	2/0	.366					
PKL46S-1		2/0	3/0	—	.500	4½				
PKL58-1		3/0	4/0							
PKL68-1		4/0	250 kcmil							
PRS25N	266 ^{26/7}	250-300 MCM	—	—	.625	8	—	B20AH, CSA28, EEI 14A, 318, 1064, 1½/16		
PRS30N	266 ^{26/7} , 366 ^{19/4}	300-350 MCM								
PRS35N	336 ^{30/7} , 26 ^{26/7} , 19 ^{19/4} , 397 ^{19/4}	336-400 MCM								
PRS40N	397 ^{19/4} , 477 ^{19/4}	450-500 MCM								

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Distribution Compression Connectors

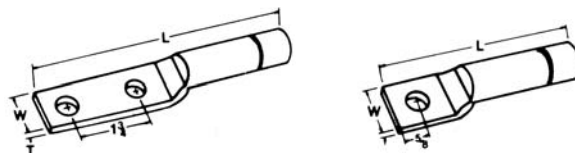
Type AL — Aluminum Compression Terminal Lugs



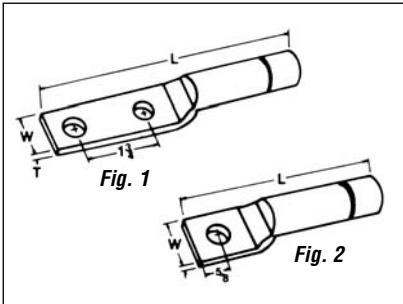
- For aluminum and copper conductor.
- NEMA Standard mounting holes.
- Prefilled with oxide inhibitor.
- Complete die and crimp information clearly indented on each lug.
- Installed with standard tools and dies.
- Use ½" mounting hardware for all sizes.
- Available tin plated; add suffix P to catalogue number.
- Extended barrel for additional crimping area or weatherseal for outdoor terminators.

Cat. No.		Conductor Range					Installation Dies		Dimensions		
2 Hole (Fig. 1)	1 Hole (Fig. 2)				Diameter (in.)		Mech. Tool	Hyd. Tool	W	L	T (Pad Thickness)
		ACSR	AWG (Stranded)	Compact	min.	max.					
AL4		2	1-2	—	.316	.332	840 K840 845 TX	840 B49EA EEI, 11A K840 249 76 CSA 24	1¼	5⅞	⅝
	AL5	1/0	1/0	2/0	.368	.398				4⅞	1⅜
AL6										6⅝	
	AL7	2/0	2/0	3/0	.414	.447				4⅞	1⅜
AL8										6⅝	
	AL9	3/0	3/0	4/0	.464	.502				4⅞	⅝
AL10										6⅝	
	AL11	4/0	4/0	—	.522	.563				4⅞	⅝
AL12										6⅝	
AL16		266 ^{26/7} , 9/7, 18/1	250-300	—	.574	.679	—	B80EA EEI 13A 655 1⅞ 96H CSA 26	1½	7⅞	⅞
AL18		266 ^{26/7} , 9/7, 18/1 336 ^{19/1}	300-350	450 kcmil	.609	.772			1⅞		1⅜
AL20		336 ^{30/7} , 26/7, 18/1 397 ^{19/1}	336-400	500 kcmil	.666	.813			1⅞		⅝
AL24		397 ^{30/7} , 26/7, 18/1 477 ^{19/1}	450-500	600 kcmil	.770	.893	—	106H CSA 28 B20AH EEI 14A 318 1⅞	1⅞	8⅞	½
AL28		477 ^{30/7} , 26/7, 18/1 556 ^{19/1}	550 & 556	—	.846	.964					
AL32		556 ^{26/7} , 24/7 636 ^{19/1}	600 & 636	750 kcmil	.891	.990					
AL44		636 ^{26/7} , 715 ^{54/7} 666 ^{24/7}	750-800	—	.990	1.031	—	1½ 6024AH 125H 301 CSA 30	1⅞	9⅞	
AL60*		900 ^{31/7} 954 ^{4/7}	1000-1033	—	1.151	1.165					

*For aluminum conductor only.



Type ALS — Aluminum Compression Terminal Lugs



- For aluminum and copper conductor.
- NEMA Standard mounting holes.
- Prefilled with oxide inhibitor.
- Complete die and crimp information clearly indented on each lug.
- Installed with standard tools and dies.

- Use 1/2" mounting hardware for all sizes.
- Available tin plated; add suffix P to catalogue number.

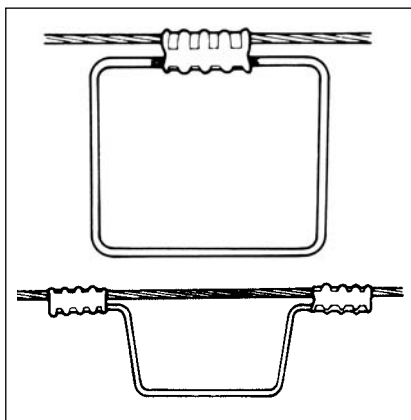
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Cat. No.		Conductor Range					Installation Dies		Dimensions		
2 Hole (Fig. 1)	1 Hole (Fig. 2)				Diameter (in.)		Mech. Tool	Hyd. Tool	W	L	T (Pad Thick- ness)
		ACSR	AWG (Stranded)	Compact	min.	max.					
	AL581	4	4	—	.277	.213	3/8 Peach BG WBG G TU	B58CS U-BG	29/32	2 37/64	1/4
AL582										4 37/64	
	AL583	2	2	—	.344	.290				2 37/64	
AL584										4 37/64	
	AL585	1/0	1/0	2/0	.422	.381				2 37/64	
AL586										4 37/64	
	ALS1	4	4 2 Solid	4	.258	.232	840 K840 845 TX	840 B49EA EEI 11A K840 249 76 CSA24	29/32	3 1/4	
ALS2									1 1/4	5 3/4	
	ALS3	2	1-2	1-2	.332	.316			29/32	3 1/4	
ALS4									1 1/4	5 3/4	
	ALS5	1/0	1/0	2/0	.398	.368			29/32	3 1/4	
ALS6									1 1/4	5 3/4	
	ALS7	2/0	2/0	3/0	.447	.414			29/32	3 1/4	
ALS8									1 1/4	5 3/4	
	ALS9	3/0	3/0	4/0	.502	.464			29/32	3 1/4	
ALS10									1 1/4	5 3/4	
	ALS11	4/0	4/0	—	.563	.522			29/32	3 1/4	
ALS12									1 1/4	5 3/4	
	ALS13	3/0, 4/0	3/0, 4/0 250 kcmil	250 300 kcmil	.575	.464	—	B80EA EEI 13A 655 1 1/8 321 96H CSA 26	1 1/4	4 5/8	3/8
ALS14										6	
	ALS15	266 39/64, 5/8, 19/16 kcmil	250-300	350	.633	.574				4 5/8	
ALS16										6	
	ALS17	266 39/64, 5/8, 19/16 336 19/16	300-350	350-400	.684	.609				4 5/8	
ALS18										6	
	ALS19	336 39/64, 29/16, 19/16 397 19/16	336-400	450-500	.743	.666	—	B20AH EEI 14A 318 1 1/8 CSA 28 106H	1 3/8	4 5/8	5/16
ALS20										6	
	ALS23	397 39/64, 29/16, 19/16 477 19/16	450-500	550-600	.814	.743				5 5/16	
ALS24											
	ALS28	477 39/64, 29/16, 24/16 556 19/16	550-556	650-700	.883	.846				6 5/8	
ALS32		556 29/16, 29/16 636 19/16	600-636	750	.940	.891	—	1 1/2 6024 125H CSA 30	1 5/8		5/8
ALS44		636 29/16, 715 54/16 666 29/16, 54/16	750-800	900	1.031	.990					
ALS60*		900 31/16 954 45/16	1000-1033	1033	1.172	1.151				7 1/4	

* For aluminum conductor only.

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Compression Stirrup Connectors



- For protection of main conductors from arcing damage when hot line taps are installed.
- Utilizes standard WR connectors and plated copper bails.

Types WRQ and WRS – Wide Range Compression Stirrups

Cat. No.		Conductor Range				Copper Bail	Dimensions	
Figure 1	Figure 2	ACSR	AWG	Diameter (in.)*			Type WRS	
				max.	min.		L	H'
WRQ154	WRS154	2–6	1 str.–6 sol.	.332	.162	4 sol.	10"	2 ¹⁵ / ₁₆
WRQ152	WRS152					2 sol.		
WRQ172	WRS172	1/0–3	1/0 str.–1 sol.	.398	.281	2 sol.		
WRQ232	WRS232	2/0–1/0	2/0 str.–1/0 str.	.447	.368	2 sol.		
WRQ352	WRS352	4/0–3/0	4/0 str.–3/0 str.	.563	.460	2 sol.		
—	WRS719	397 ¹ / ₄ –266	400 str.–250 str.	.743	.600	2/0 sol.	12 ¹ / ₄ "	3 ³ / ₁₆ "
—	WRS819	477 ⁷ / ₈ –336	500 str.–336 str.	.858	.666	2/0 sol.		
WRQ698	—	477 ⁷ / ₈ –266	500 str.–250 str.	.858	.574	2 sol.		

* Decimal dimensions are for conventional conductor, not Copperweld or Alumoweld.

F

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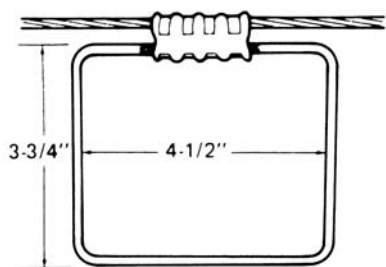


Fig. 1

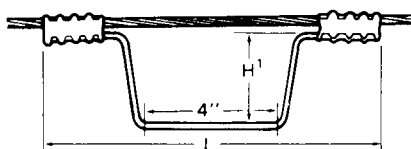


Fig. 2

Installation Information

Cat. No.		Installation Dies	
		Mech.	Hyd.
WRQ154	WRS154	O	O
WRQ152	WRS152		
WRQ172	WRS172		
WRS232	WRS232	D	D
WRQ352	WRS352		
WRQ698	WRS719	—	N
	WRS819		

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Compression Stirrup Connectors

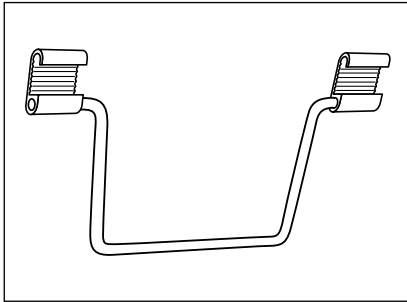


Fig. 1

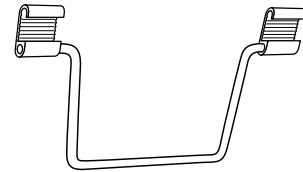


Fig. 2

- Aluminum connector elements are designed to be pre-loaded for faster installation into popular "hot stick" tools and compressed using standard "O," "D" and "N" dies.
- Connectors are prefilled with inhibitor compound.
- Wide range—only 4 sizes cover #6 solid to 500 kcmil stranded.

Types SC and QC – Wide Range Compression Stirrups

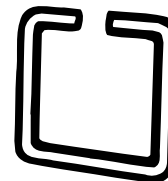
Cat. No.		Conductor Range				Bail		Installation Dies		Dimensions (in.)	
Fig. 1	Fig. 2	ACSR	AWG Alum.	Diameter		(Tin Plated)		Mech.	Hyd.	L	H
				(in.)	mm	Size	Diameter (mm)				
QCO 02	SCO 02	2-6	2 str.-6 sol.	.325-.162	8.25-.412	#2 solid	6.35	O	O	8¾	3⅞
QCO 21	SCO 21	2/0-2	2/0 str.-2 str.	.414-.292	10.51-7.41	#2 solid	6.35	O	O	8¾	3⅞
QCD 41	SCD 41	4/0-3/0	4/0 str.-3/0 str.	.563-.464	14.29-10.51	#2 solid	6.35	D	—	8¾	3⅞
QCN 50	SCN 50	477½-4/0	500-4/0 str.	.814-.528	20.66-13.40	1/0 solid	6.22	—	N	11	3⅞

Plated Copper Bail

Cat. No.	Bail Wire Size	Dimensions (in)	
		W	H
7019	#2 solid copper	10"	2⅞"
7020	2/0 solid copper	12¼"	3⅞"
7030	#2 solid copper	4½"	3¾"
7030C	#2 solid copper	4½"	3¾"



7019



7020
7030

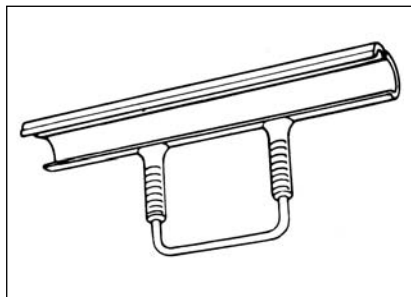
- Tin plated for lower contact resistance.
- Knurled to resist rotation.



7030C

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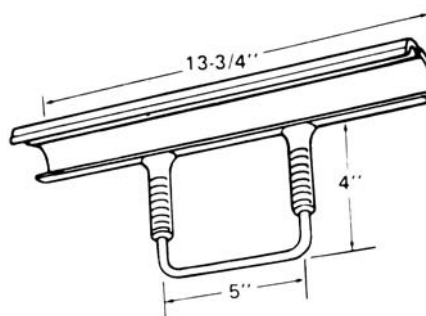
Compression Stirrup Connectors



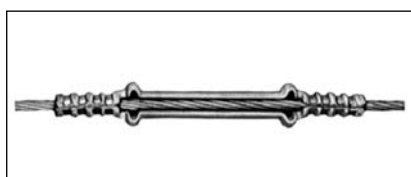
- Single-piece stirrup for large conductor.
- Use U or 6024 Installation Die.

Type CCS – Compression Stirrup

Cat. No.	Conductor Range		Copper Bail (Tin Plated)
	max.-min.	Diameter max.-min.	
CCS44	800—636 str.	1.032—.918	2/0 sol.



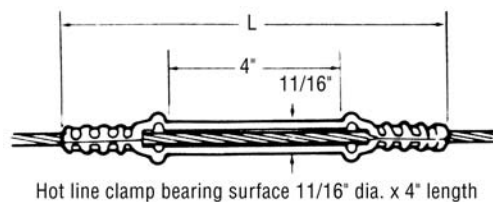
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- Covers and protects conductor from arcing when line clamp is attached or disconnected.

Type LP – Compression Line Protector Sleeve

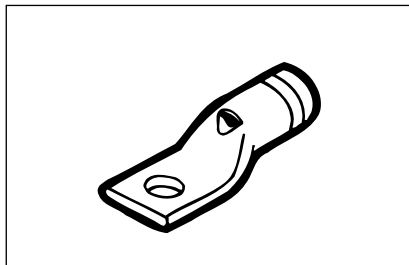
Cat. No.	Conductor Range				Dimensions L	Installation Dies
			Diameter			
	ACSR	AWG	max.	min.		
LP4	4	4	.257	.232	8"	5/8, Peach BG, G
LP2	2	2	.316	.292		
LP10	1/0	1/0	.398	.373		0



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Colour-Coded Compression Connectors



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Copper Compression Connectors

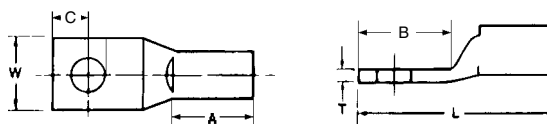
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord.
- Specially designed for industrial and building applications.
- Made of high conductivity seamless copper tubing.
- Tin-plated for corrosion resistance.
- Specially chamfered barrel for ease of installation.
- Colour-coded for matching die identification.
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used.
- U.L. Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools.
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations.

Short Barrel Connectors

- Short barrel connectors designed for regular duty applications.
- Ideal for confined areas.

Type CTL — Copper Lugs, 1-Hole Mount, Short Barrel

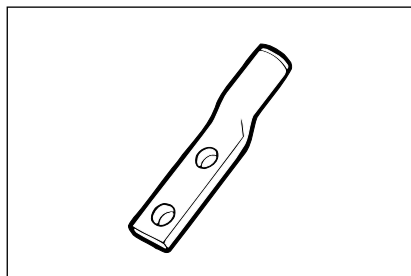
Cat. No.	Conductor Size (CU)	Stud Size	Dimensions (in.)						Die Colour Code
			A	B	C	L	W	T	
CTL8-10	8 str.	10	$\frac{13}{32}$	$\frac{1}{2}$	$\frac{7}{32}$	$1\frac{1}{32}$	$\frac{3}{8}$	$\frac{1}{16}$	Red
CTL8-14		$\frac{1}{4}$	$\frac{13}{32}$	$\frac{19}{32}$	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{7}{16}$	$\frac{1}{16}$	
CTL8-516		$\frac{5}{16}$	$\frac{13}{32}$	$\frac{5}{8}$	$\frac{9}{32}$	$1\frac{1}{16}$	$\frac{9}{16}$	$\frac{1}{16}$	
CTL6-10	6 str.	10	$\frac{7}{16}$	$\frac{17}{32}$	$\frac{7}{32}$	$1\frac{1}{32}$	$\frac{7}{16}$	$\frac{1}{16}$	Blue
CTL6-14		$\frac{1}{4}$	$\frac{7}{16}$	$\frac{17}{32}$	$\frac{7}{32}$	$1\frac{1}{32}$	$\frac{7}{16}$	$\frac{1}{16}$	
CTL6-516		$\frac{5}{16}$	$\frac{7}{16}$	$\frac{21}{32}$	$\frac{9}{32}$	$1\frac{13}{32}$	$\frac{19}{32}$	$\frac{1}{16}$	
CTL6-38		$\frac{3}{8}$	$\frac{7}{16}$	$\frac{21}{32}$	$\frac{9}{32}$	$1\frac{13}{32}$	$\frac{19}{32}$	$\frac{1}{16}$	
CTL4-10	4 str.	10	$\frac{1}{2}$	$\frac{19}{32}$	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{17}{32}$	$\frac{3}{32}$	Grey
CTL4-14		$\frac{1}{4}$	$\frac{1}{2}$	$\frac{19}{32}$	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{17}{32}$	$\frac{3}{32}$	
CTL4-516		$\frac{5}{16}$	$\frac{1}{2}$	$\frac{21}{32}$	$\frac{5}{16}$	$1\frac{13}{32}$	$\frac{19}{32}$	$\frac{1}{16}$	
CTL4-38		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{21}{32}$	$\frac{5}{16}$	$1\frac{13}{32}$	$\frac{19}{32}$	$\frac{1}{16}$	
CTL2-14	2 str.	$\frac{1}{4}$	$\frac{19}{32}$	$\frac{21}{32}$	$\frac{1}{4}$	$1\frac{1}{2}$	$\frac{9}{16}$	$\frac{3}{32}$	Brown
CTL2-516		$\frac{5}{16}$	$\frac{19}{32}$	$\frac{7}{8}$	$\frac{3}{8}$	$1\frac{23}{32}$	$\frac{9}{16}$	$\frac{3}{32}$	
CTL2-38		$\frac{3}{8}$	$\frac{19}{32}$	$\frac{29}{32}$	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{9}{16}$	$\frac{3}{32}$	
CTL2-12		$\frac{1}{2}$	$\frac{19}{32}$	$1\frac{1}{16}$	$\frac{1}{2}$	$1\frac{29}{32}$	$\frac{3}{4}$	$\frac{1}{16}$	
CTL1-14	1 str.	$\frac{1}{4}$	$\frac{19}{32}$	$\frac{21}{32}$	$\frac{1}{4}$	$1\frac{1}{2}$	$\frac{21}{32}$	$\frac{3}{32}$	Green
CTL1-516		$\frac{5}{16}$	$\frac{19}{32}$	$\frac{7}{8}$	$\frac{3}{8}$	$1\frac{23}{32}$	$\frac{21}{32}$	$\frac{3}{32}$	
CTL1-38		$\frac{3}{8}$	$\frac{19}{32}$	$\frac{29}{32}$	$\frac{3}{32}$	$1\frac{1}{4}$	$\frac{21}{32}$	$\frac{3}{32}$	
CTL1-12		$\frac{1}{2}$	$\frac{19}{32}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{3}{32}$	$\frac{3}{4}$	$\frac{3}{32}$	
CTL10-516	1/0 str.	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{7}{8}$	$\frac{3}{8}$	$1\frac{13}{16}$	$\frac{3}{4}$	$\frac{1}{8}$	Pink
CTL10-38		$\frac{3}{8}$	$\frac{11}{16}$	$\frac{29}{32}$	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{1}{8}$	
CTL10-12		$\frac{1}{2}$	$\frac{11}{16}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{3}{16}$	$\frac{3}{4}$	$\frac{1}{8}$	
CTL20-38	2/0 str.	$\frac{3}{8}$	$\frac{13}{16}$	$\frac{29}{32}$	$\frac{3}{8}$	$2\frac{1}{32}$	$\frac{13}{16}$	$\frac{1}{8}$	Black
CTL20-12		$\frac{1}{2}$	$\frac{13}{16}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{11}{32}$	$\frac{13}{16}$	$\frac{1}{8}$	
CTL30-38	3/0 str.	$\frac{3}{8}$	$\frac{13}{16}$	$\frac{29}{32}$	$\frac{3}{8}$	$2\frac{1}{32}$	$\frac{29}{32}$	$\frac{1}{8}$	Orange
CTL30-12		$\frac{1}{2}$	$\frac{13}{16}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{11}{32}$	$\frac{29}{32}$	$\frac{1}{8}$	
CTL40-38	4/0 str. or 3/0 weld	$\frac{3}{8}$	$\frac{15}{16}$	$\frac{29}{32}$	$\frac{3}{8}$	$2\frac{5}{32}$	$1\frac{1}{32}$	$\frac{1}{8}$	Purple
CTL40-12		$\frac{1}{2}$	$\frac{15}{16}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{1}{32}$	$\frac{1}{8}$	
CTL250-12	250 kcmil or 4/0 weld	$\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{19}{32}$	$1\frac{1}{8}$	$\frac{1}{8}$	Yellow
CTL300-12	300 kcmil	$\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{25}{32}$	$1\frac{1}{16}$	$\frac{5}{32}$	White
CTL350-12	350 kcmil	$\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{1}{4}$	$\frac{1}{2}$	$2\frac{25}{32}$	$1\frac{11}{32}$	$\frac{5}{32}$	Red
CTL400-12	400 kcmil	$\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{1}{4}$	$\frac{1}{2}$	$3\frac{3}{16}$	$1\frac{13}{32}$	$\frac{5}{32}$	Blue
CTL400-58		$\frac{5}{8}$	$1\frac{1}{32}$	$1\frac{1}{16}$	$\frac{5}{8}$	$3\frac{1}{2}$	$1\frac{13}{32}$	$\frac{5}{32}$	
CTL500-12	500 kcmil	$\frac{1}{2}$	$1\frac{13}{32}$	$1\frac{1}{4}$	$\frac{1}{2}$	$3\frac{1}{4}$	$1\frac{19}{32}$	$\frac{7}{32}$	Brown
CTL500-58		$\frac{5}{8}$	$1\frac{13}{32}$	$1\frac{1}{16}$	$\frac{5}{8}$	$3\frac{3}{16}$	$1\frac{19}{32}$	$\frac{7}{32}$	
CTL600-58	600 kcmil	$\frac{5}{8}$	$1\frac{1}{16}$	$1\frac{1}{16}$	$\frac{5}{8}$	$3\frac{23}{32}$	$1\frac{1}{4}$	$\frac{7}{32}$	Green
CTL750-58	750 kcmil	$\frac{5}{8}$	$1\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{8}$	$3\frac{25}{32}$	$1\frac{29}{32}$	$\frac{1}{4}$	Black
CTL1000-58	1000 kcmil	$\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{1}{16}$	$\frac{5}{8}$	$4\frac{1}{32}$	$2\frac{1}{4}$	$\frac{9}{32}$	—



Thomas & Betts

Blackburn®

Colour-Coded Compression Connectors



Copper Compression Connectors

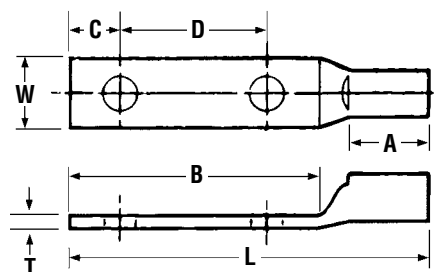
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord.
- Specially designed for industrial and building applications.
- Made of high conductivity seamless copper tubing.
- Tin-plated for corrosion resistance.
- Specially chamfered barrel for ease of installation.
- Colour-coded for matching die identification.
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used.
- U.L. Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools.
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations.

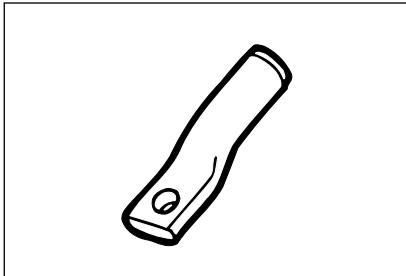
Short Barrel Connectors

- Short barrel connectors designed for regular duty applications.
- Ideal for confined areas.

Type CTL — Copper Lugs, 2-Hole Mount, Short Barrel

Cat. No.	Conductor Size (CU)	Stud Size	Dimensions (in.)							Die Colour Code	
			A	B	C	D	L	W	T		
CTL6-214	6 str.	1/4	1/2	1 1/4	1/4	5/8	1 31/32	13/32	1/16	Blue	
CTL4-214	4 str.		1/2	1 1/4	1/4	5/8	2 1/32	1/2	3/32	Grey	
CTL2-2516	2 str.	5/16	19/32	1 5/8	3/8	3/4	2 15/32	9/16	3/32	Brown	
CTL1-2516	1 str.		19/32	1 3/4	3/8	7/8	2 19/32	21/32	3/32	Green	
CTL10-2516	1/0 str.		1 1/16	1 3/4	3/8	7/8	2 11/16	3/4	1/8	Pink	
CTL202	2/0 str.	1/2	13/16	2 13/16	1/2	1 3/4	3 13/16	13/16	1/8	Black	
CTL302	3/0 str.		25/32	2 13/16	1/2	1 3/4	3 15/16	15/16	1/8	Orange	
CTL402	4/0 str.		15/16	3	1/2	1 3/4	4 1/4	1 1/32	1/8	Purple	
CTL2502	250 kcmil		1 1/32	3	1/2	1 3/4	4 11/32	1 1/8	5/32	Yellow	
CTL3002	300 kcmil		1 1/32	3	1/2	1 3/4	4 17/32	1 3/16	5/32	White	
CTL3502	350 kcmil		1 1/32	3	1/2	1 3/4	4 17/32	1 11/32	5/32	Red	
CTL4002	400 kcmil		1 11/32	3	1/2	1 3/4	4 15/16	1 13/32	5/32	Blue	
CTL5002	500 kcmil		1 3/8	3	1/2	1 3/4	5	1 17/32	7/32	Brown	
CTL6002-38	600 kcmil		3/8	1 17/32	1 29/32	3/8	1 3/4	5 1/8	1 23/32	7/32	Green
CTL6002-12			1 17/32	3	1/2	1 3/4	5 1/8	1 23/32	7/32		
CTL7502	750 kcmil	1/2	1 1/2	3	1/2	1 3/4	5 3/32	1 29/32	1/4	Black	
CTL10002	1000 kcmil		1 3/4	3	1/2	1 3/4	5 1/16	2 1/4	9/32	—	





Blackburn®

Copper Compression Connectors

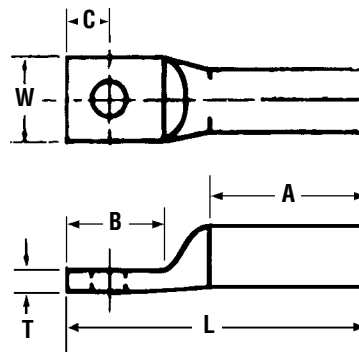
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord.
- Specially designed for industrial and building applications.
- Made of high conductivity seamless copper tubing.
- Tin-plated for corrosion resistance.
- Specially chamfered barrel for ease of installation.
- Colour-coded for matching die identification.
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used.
- U.L. Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools.
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations.

Long Barrel Connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications.
- Heavy duty design which permits additional crimp for added mechanical strength.

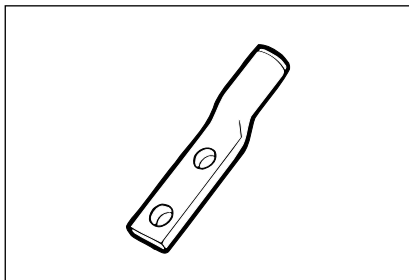
Type CTL — Copper Lugs, 1-Hole Mount, Long Barrel

Cat. No.	Conductor Size AWG (CU)	Flexible Conductor Size	Stranding	Stud Size	Dimensions (in.)						Die Colour Code
					A	B	C	L	W	T	
CTL8L-14	8 str.	8	37/24	1/4	25/32	5/8	1/4	1 5/8	13/32	1/16	Red
CTL6L-14	6 str.	6	61/24		25/32	5/8	1/4	1 5/8	13/32	1/16	Blue
CTL4L-14	4 str.	5	91/24		25/32	5/8	1/4	1 11/16	1/2	3/32	Grey
CTL2L-516	2 str.	3	125/24	5/16	7/8	7/8	3/8	2 1/32	9/16	3/32	Brown
CTL1L-516	1 str.	2	150/24		1 3/32	7/8	3/8	2 5/32	2 1/32	3/32	Green
CTL10L-516	1/0 str.	1	225/24		1 3/32	7/8	3/8	2 7/32	3/4	1/8	Pink
CTL20L-38	2/0 str.	1/0	275/24	3/8	1 3/32	29/32	3/8	2 1/4	13/16	1/8	Black
CTL30L-12	3/0 str.	2/0	325/24	1/2	1 1/8	1 1/4	1/2	2 11/16	29/32	1/8	Orange
CTL40L-12	4/0 str.	—	—		1 1/8	1 1/4	1/2	2 5/16	1 1/32	1/8	Purple
CTL250L-12	250 kcmil	3/0	450/24		1 19/32	1 1/4	1/2	3 1/8	1 1/8	1/8	Yellow
CTL300L-12	300 kcmil	4/0	550/24	5/8	1 25/32	1 1/4	1/2	3 17/32	1 1/16	1/8	White
CTL350L-12	350 kcmil	263	650/24		1 27/32	1 1/4	1/2	3 19/32	1 11/32	3/32	Red
CTL400L-58	400 kcmil	313	775/24		1 27/32	1 1/16	5/8	4 1/32	1 13/32	3/32	Blue
CTL500L-58	500 kcmil	373	925/24	3/4	2 1/32	1 1/16	5/8	4 1/2	1 19/32	3/16	Brown
CTL600L-58	600 kcmil	444	1100/24		2 1/8	1 1/16	5/8	4 5/16	1 23/32	7/32	Green
CTL750L-58	750 kcmil	535	1325/24		2 3/8	1 1/16	5/8	4 21/32	1 29/32	1/4	Black
CTL1000L-58	1000 kcmil	646 777	1600/24 1925/24	1	2 7/8	1 1/16	5/8	5 5/32	2 1/4	3/32	—



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Colour-Coded Compression Connectors



Copper Compression Connectors

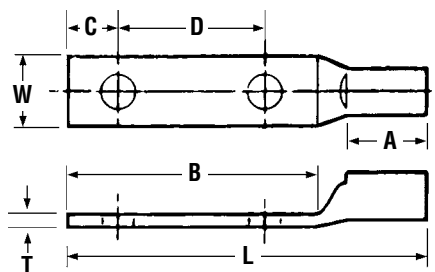
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord.
- Specially designed for industrial and building applications.
- Made of high conductivity seamless copper tubing.
- Tin-plated for corrosion resistance.
- Specially chamfered barrel for ease of installation.
- Colour-coded for matching die identification.
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used.
- U.L. Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools.
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations.

Long Barrel Connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications.
- Heavy duty design which permits additional crimp for added mechanical strength.

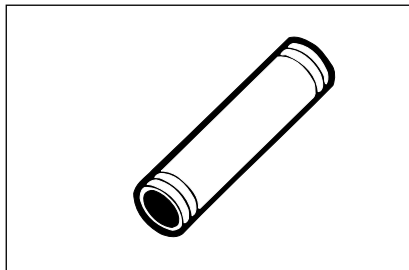
Type LCN — Copper Lugs, 2-Hole Mount, Long Barrel

Cat. No.	Conductor Size AWG (CU)	Flexible Conductor Size	Stranding	Stud Size	Dimensions (in.)							Die Colour Code	
					A	B	C	D	L	W	T		
LCN8-14	8 str.	8	37/24	1/4	25/32	1 3/16	1/4	5/8	2 1/8	1 1/32	1/16	Red	
LCN6-14	6 str.	6	61/24		25/32	1 1/4	1/4	5/8	2 1/4	1 1/32	1/16	Blue	
LCN6-12					1/2	25/32	3	1/2	1 3/4	4 5/32	7/8		3/32
LCN4-14	4 str.	5	91/24	1/4	25/32	1 3/16	1/4	5/8	2 3/16	1 7/32	3/16	Grey	
LCN4-12				1/2	25/32	3	1/2	1 3/4	4 5/32	7/8	3/32		
LCN2-516	2 str.	3	125/24	5/16	7/8	1 5/8	3/8	3/4	2 15/16	9/16	3/32	Brown	
LCN2-12				1/2	7/8	3	1/2	1 3/4	4 1/4	7/8	3/32		
LCN1-516	1 str.	2	150/24	5/16	1 1/32	1 5/8	3/8	7/8	2 31/32	2 1/32	3/32	Green	
LCN1-12				1 1/32	3	1/2	1 3/4	4 13/32	7/8	3/32			
LCN10	1/0	1	225/24	1/2	1 1/32	3	1/2	1 3/4	3 31/32	3/4	1/8	Pink	
LCN20	2/0	1/0	275/24		1 5/16	3	1/2	1 3/4	4 3/16	1 1/16	1/8	Black	
LCN30	3/0	2/0	325/24		1 1/8	2 15/16	1/2	1 3/4	4 1/16	1 5/16	1/8	Orange	
LCN40	4/0	—	—		1 3/8	3	1/2	1 3/4	4 1 1/16	1 1/32	1/8	Purple	
LCN250	250 kcmil	3/0	450/24		1 19/32	3	1/2	1 3/4	4 29/32	1 1/16	1/8	Yellow	
LCN300	300 kcmil	4/0	550/24		1 25/32	3	1/2	1 3/4	5 5/32	1 3/16	1/8	White	
LCN350	350 kcmil	263	650/24		1 27/32	3	1/2	1 3/4	5 11/32	1 11/32	5/32	Red	
LCN400	400 kcmil	313	775/24		1 27/32	3	1/2	1 3/4	5 1/16	1 13/32	5/32	Blue	
LCN500	500 kcmil	373	925/24		2 11/32	3	1/2	1 3/4	5 15/16	1 19/32	3/16	Brown	
LCN600	600 kcmil	444	1100/24		2 1/8	3	1/2	1 3/4	5 3/4	1 23/32	7/32	Green	
LCN75	750 kcmil	535	1325/24		2 3/8	3	1/2	1 3/4	6 3/32	1 29/32	1/4	Black	
LCN99	1000 kcmil	646 777	1600/24 1925/24			2 7/8	3	1/2	1 3/4	6 19/32	2 1/4	5/32	—



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Colour-Coded Compression Connectors



Blackburn®

Copper Compression Connectors

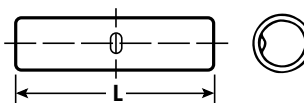
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord.
- Specially designed for industrial and building applications.
- Made of high conductivity seamless copper tubing.
- Tin-plated for corrosion resistance.
- Specially chamfered barrel for ease of installation.
- Colour-coded for matching die identification.
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used.
- U.L. Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools.
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations.

Long Barrel Connectors

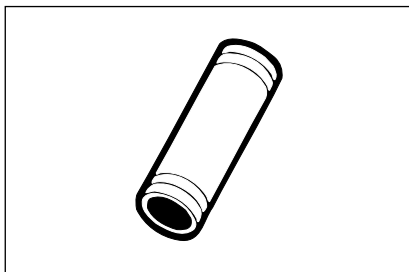
- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications.
- Heavy duty design which permits additional crimp for added mechanical strength.

Type CU — Copper Splices, Long Barrel

Cat. No.	Conductor Size AWG (CU)	Flexible Conductor		Length L (in.)	Die Colour Code
		CMA	Stranding		
CU8	8 str.	8	37/24	1 3/4	Red
CU6	6 str.	6	61/24		Blue
CU4	4 str.	5	91/24		Grey
CU2	2 str.	3	125/24	1 7/8	Brown
CU1	1 str.	2	150/24	2	Green
CU10	1/0 str.	1	225/24		Pink
CU20	2/0 str.	1/0	275/24	2 1/8	Black
CU30	3/0 str.	2/0	325/24	2 1/4	Orange
CU40	4/0 str.	—	—	2 3/4	Purple
CU250	250 kcmil	3/0	450/24	3 3/8	Yellow
CU300	300 kcmil	4/0	550/24	3 1/2	White
CU350	350 kcmil	263	650/24	3 3/4	Red
CU400	400 kcmil	313	755/24		Blue
CU500	500 kcmil	373	925/24	4 1/4	Brown
CU600	600 kcmil	444	1100/24	4 1/4	Green
CU750	750 kcmil	535	1325/24	4 3/4	Black
CU1000	1000 kcmil	646 777	1600/24 1925/24	5 3/8	—



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Blackburn®**Colour-Coded Compression Connectors****Copper Compression Connectors**

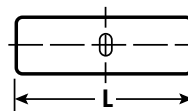
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord.
- Specially designed for industrial and building applications.
- Made of high conductivity seamless copper tubing.
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation.
- Colour-coded for matching die identification.
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used.
- U.L. Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools.
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations.

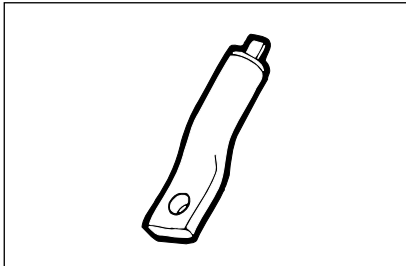
Short Barrel Connectors

- Short barrel connectors designed for regular duty applications.
- Ideal for confined areas.

Type CSP — Copper Splices, Short Barrel

Cat. No.	Conductor Size (CU)	Length L (in.)	Die Colour Code
CSP8	8 str.	1	Red
CSP6	6 str.	1	Blue
CSP4	4 str.	1	Grey
CSP2	3-2 str.	1¼	Brown
CSP1	1 str.	1½	Green
CSP10	1/0 str.	1⅝	Pink
CSP20	2/0 str.	1¾	Black
CSP30	3/0 str.	1¾	Orange
CSP40	4/0 str.	1⅞	Purple
CSP250	250 kcmil	2¼	Yellow
CSP300	300 kcmil	2⅝	White
CSP350	350 kcmil	2¼	Red
CSP400	400 kcmil	2¾	Blue
CSP500	500 kcmil	2¾	Brown
CSP600	600 kcmil	3	Green
CSP750	750 kcmil	3	Black
CSP1000	1000 kcmil	3⅞	—

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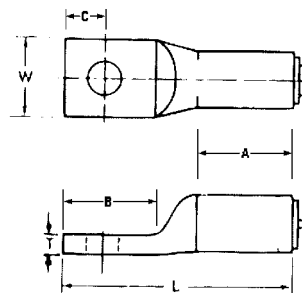
Blackburn®

Aluminum Compression Connectors

- Specifically designed for use with aluminum conductor (concentric, compressed or compact).
- Also listed for use with copper conductor.
- Made of high conductivity seamless aluminum tubing.
- Tin-plated for corrosion resistance.
- Chamfered barrels for ease of installation.
- Can be used for high voltage application up to 35 kV provided high voltage insulation techniques are used.
- Colour-coded for quick, easy die identification.
- Pre-filled with oxide inhibiting compound.
- U.L. Listed when installed with Blackburn, Burndy, T&B or Anderson tools.

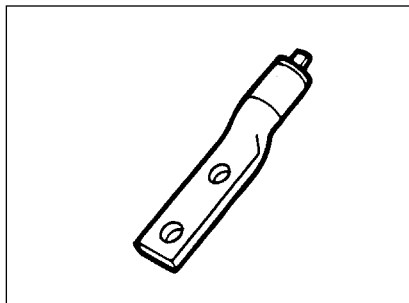
Type ATL – Aluminum Lugs, 1-Hole

Cat. No.	Conductor Size (AL or CU)	Stud Size	Dimensions (in.)						Die Colour Code
			A	B	C	L	W	T	
ATL8-10	8 str.	10	1/2	19/32	7/32	1 1/32	13/32	3/32	Blue
ATL8-14		1/4	1/2	11/16	11/32	1 1/8	7/16	3/32	
ATL6-10	6 str.	10	25/32	9/16	7/32	1 1/2	15/32	1/8	Grey
ATL6-14		1/4	25/32	23/32	15/32	1 21/32	15/32	1/8	
ATL6-38		3/8	27/32	29/32	7/16	1 27/32	5/8	3/32	
ATL4-14	4 str.	1/4	27/32	13/16	11/32	1 29/32	5/8	3/16	Green
ATL4-516		5/16	27/32	1	7/16	2 1/16	5/8	3/16	
ATL4-38		3/8	27/32	29/32	7/16	2	5/8	3/16	
ATL2-14	2 str.	1/4	27/32	25/32	11/32	1 15/16	23/32	3/16	Pink
ATL2-516		5/16	27/32	7/8	7/16	2 11/32	3/4	3/16	
ATL2-38		3/8	27/32	29/32	7/16	2 1/16	23/32	3/16	
ATL1-516	1 str.	5/16	27/32	7/8	7/16	2 1/32	23/32	3/16	Gold
ATL1-38		3/8	27/32	29/32	7/16	2 5/8	3/4	3/16	
ATL10-516	1/0 str.	5/16	1 1/32	1	7/16	2 17/32	7/8	3/16	Tan
ATL10-38		3/8	1 1/32	1 1/16	7/16	2 19/32	7/8	3/16	
ATL10-12		1/2	1 1/32	1 3/8	11/16	2 15/16	15/16	3/16	
ATL20-38	2/0 str.	3/8	1 3/16	1	7/16	2 5/8	31/32	7/32	Olive
ATL20-12		1/2	1 3/16	1 3/8	11/16	3	1 1/32	7/32	
ATL30-38	3/0 str.	3/8	1 11/32	1 1/16	7/16	2 13/16	1 1/16	7/32	Ruby
ATL30-12		1/2	1 11/32	1 3/8	11/16	3 3/8	1 1/16	7/32	
ATL40-38	4/0 str.	3/8	1 7/8	1 3/32	3/8	3 3/4	1 3/16	1/4	White
ATL40-12		1/2	1 7/8	1 1/4	1/2	3 7/8	1 3/16	1/4	
ATL250-12	250 kcmil	1/2	2 1/32	1 1/4	1/2	4 1/32	1 9/32	1/4	Red
ATL300-38	300 kcmil	3/8	2	1 1/16	3/8	4 3/16	1 3/8	9/32	Blue
ATL300-12		1/2	2	1 1/16	1/2	4 3/16	1 3/8	9/32	
ATL350-12	350 kcmil	1/2	2 11/16	1 1/16	1/2	4 7/8	1 1/2	5/16	Brown
ATL400-58	400 kcmil	5/8	2 11/16	1 1/4	1/2	4 15/16	1 5/8	3/8	Green
ATL500-12	500 kcmil	1/2	2 11/16	1 1/4	1/2	4 15/16	1 25/32	3/8	Pink
ATL500-58		5/8	2 11/16	2	3/4	5 11/16	1 25/32	3/8	
ATL600-12	600 kcmil	1/2	2 11/16	2	3/4	5 13/16	1 29/32	11/32	Black
ATL750-12	750 kcmil	1/2	2 7/8	1 1/4	1/2	5 1/4	2 1/8	3/8	—
ATL750-58		5/8	2 7/8	2	3/4	6 1/32	2 1/8	3/8	



Blackburn®

Colour-Coded Compression Connectors

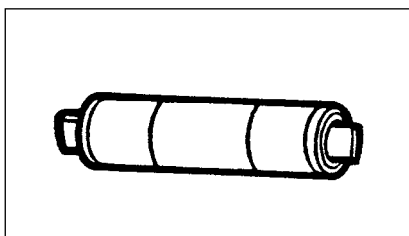
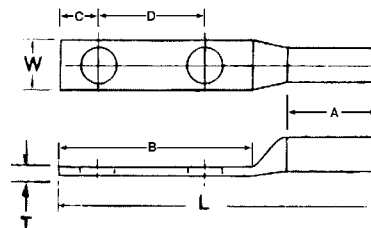


Aluminum Compression Connectors

- Specifically designed for use with aluminum conductor (concentric, compressed or compact).
- Also listed for use with copper conductor.
- Made of high conductivity seamless aluminum tubing.
- Tin-plated for corrosion resistance.
- Chamfered barrels for ease of installation.
- Can be used for high voltage application up to 35 kV provided high voltage insulation techniques are used.
- Colour-coded for quick, easy die identification.
- Pre-filled with oxide inhibiting compound.
- U.L. Listed when installed with Blackburn, Burndy, T&B or Anderson tools.

Type ATL – Aluminum Lugs, 2-Hole

Cat. No.	Conductor Size (CU)	Stud Size	Dimensions (in.)							Die Colour Code
			A	B	C	D	L	W	T	
ATL102-38	1/0 str.	3/8	1 1/32	2 1/16	3/8	1	3 19/32	7/8	3/16	Tan
ATL102			1 1/16	3	1/2	1 1/4	4 1/16	1 5/16	3/16	
ATL202			1 1/16	3 3/8	3/4	1 1/4	5	3 1/32	7/32	Olive
ATL302	3/0 str.		1 11/32	3 3/8	3/4	1 1/4	5 5/32	1 1/16	7/32	Ruby
ATL402	4/0 str.		1 7/8	3	1/2	1 1/4	5 5/8	1 3/16	1/4	White
ATL2502	250 kcmil	1/2	2 1/32	3	1/2	1 1/4	5 25/32	1 9/32	1/4	Red
ATL3002	300 kcmil		2	3	1/2	1 1/4	5 7/8	1 3/8	9/32	Blue
ATL3502	350 kcmil		2 11/16	3	1/2	1 1/4	6 1/16	1 1/2	5/16	Brown
ATL4002	400 kcmil		2 11/16	3	1/2	1 1/4	6 11/16	1 5/8	3/8	Green
ATL5002	500 kcmil		2 11/16	3	1/2	1 1/4	6 11/16	1 25/32	3/8	Pink
ATL6002	600 kcmil		2 11/16	3	1/2	1 1/4	6 13/16	1 29/32	11/32	Black
ATL7502	750 kcmil		2 7/8	3	1/2	1 1/4	7 1/8	2 1/8	3/8	—

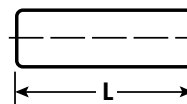


Aluminum Compression Connectors

- Specifically designed for use with aluminum conductor (concentric, compressed or compact).
- Also listed for use with copper conductor.
- Made of high conductivity seamless aluminum tubing.
- Tin-plated for corrosion resistance.
- Chamfered barrels for ease of installation.
- Can be used for high voltage application up to 35 kV provided high voltage insulation techniques are used.
- Colour-coded for quick, easy die identification.
- Pre-filled with oxide inhibiting compound.
- U.L. Listed when installed with Blackburn, Burndy, T&B or Anderson tools.

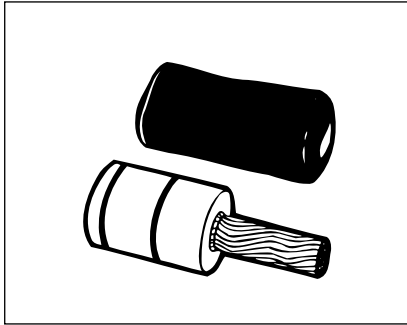
Type ASP – Aluminum Splices

Cat. No.	Conductor Size (AL or CU)	Length L (in.)	Die Colour Code
ASP8	8 str.	1 1/4	Blue
ASP6	6 str.	1 3/8	Grey
ASP4	4 str.	1 1/2	Green
ASP2	2 str.	1 5/8	Pink
ASP1	1 str.	2 3/8	Gold
ASP10	1/0 str.	2 3/4	Tan
ASP20	2/0 str.	2 1/2	Olive
ASP30	3/0 str.	2 7/8	Ruby
ASP40	4/0 str.	3 1/4	White
ASP250	250 kcmil	4	Red
ASP300	300 kcmil	4	Blue
ASP350	350 kcmil	3 3/8	Brown
ASP400	400 kcmil	4 7/8	Green
ASP500	500 kcmil	5	Pink
ASP600	600 kcmil	5 1/2	Black
ASP750	750 kcmil	5 3/4	—
ASP1000	1000 kcmil	6	—



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Colour-Coded Compression Connectors

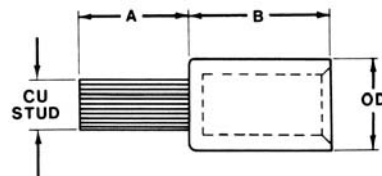


- Connector for aluminum conductor only; pigtail may be inserted into either aluminum or copper connectors.
- Insulating covers included.
- 90°C Rating per U.L. 486B.
- Tin-plated stranded copper wire pigtail.
- Tin-plated aluminum barrel pre-filled with oxide inhibitor and capped.

Type PA – Pin Adapter Terminals

Cat. No.	Conductor Size	Copper Stud Size	Dimensions (in.)		O.D.	Die Colour Code
			A	B		
PA06	6 str.	8	7/8	1 1/32	.640	—
PA04	4 str.	6	7/8	1 1/32	.640	—
PA02	2 str.	4	7/8	1 1/32	.640	—
PA01	1 str.	3	1	1 1/32	.640	—
PA11	1/0 str.	2	1 1/4	1 9/32	.906	Red
PA21	2/0 str.	1	1 1/4	1 9/32	.906	Red
PA31	3/0 str.	1/0	1 3/8	1 7/8	.906	Red
PA41	4/0 str.	2/0	1 3/8	1 7/8	.906	Red
PA25	250 kcmil	3/0	1 1/2	2 1/16	1.155	Brown
PA30	300 kcmil	4/0	1 5/8	2 1/16	1.155	Brown
PA35	350 kcmil	4/0	1 5/8	2 1/16	1.155	Brown
PA40	400 kcmil	250 kcmil	1 7/8	2 3/32	1.375	Pink
PA50	500 kcmil	350 kcmil	1 7/8	2 3/32	1.375	Pink
PA60	600 kcmil	350 kcmil	1 7/8	2 3/4	1.500	Yellow
PA75	750 kcmil	500 kcmil	2	2 3/4	1.500	Yellow

U.L. Listed AL9CU.



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Automatic Splices



- Colour-coded caps provide instant visual identification of maximum conductor size. A separate, colour-coded tape identifies the minimum conductor size of wide range connectors to further eliminate errors and save installation time.
- The funnel-shaped end piece swiftly guides conductor into position for insertion.
- A pilot cup envelopes strands and guides the conductor past the serrated jaws and into the center of the splice.
- Die-cast precision made jaw provides optimum contact area for a greater range of conductor sizes. No other jaw design forms point-to-point contact with such tenacity to give you a better fit over a range of conductor diameters which reduces your inventory stocking requirements.
- Compression spring positions the unique jaw for positive conductor acceptance.
- Tubular center stop automatically determines proper insertion length of both conductors.
- High strength, aluminum alloy tubing covers the connection for superior corrosion protection and lasting service life.
- Packaged in plastic bags to repel dirt and debris. Instructions, printed on each bag, save time and further eliminate the potential for errors during installation.

Blackburn automatic connectors make fast and dependable overhead tension splices that take a bite out of installation time.

Conductor simply slips into the colour-coded, funnel-shaped end piece and automatically enters the pilot cup with a gentle push. The pilot cup guides the conductor past the

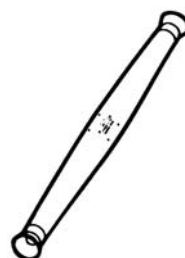
unique serrated jaws and into the center of the connector.

When the conductor meets the center stop, the pull-back locks it into position as the jaws firmly clamp down... the more pull, the more bite... to provide an instant, positive and automatic connection.

Type ATS – Autoset™ Automatic Splices

Cat. No.	Conductor Range			Colour Code	Overall Length
	ACSR	AAAC	AAC		
ATS4-S	4 $\frac{1}{4}$, $\frac{7}{8}$	4	4	4 - Orange	11.50"
ATS42	4 $\frac{1}{4}$, $\frac{7}{8}$ 2 $\frac{1}{4}$, $\frac{7}{8}$	4-2	4-2	4 - Orange 2 - Red	13.75"
ATS2	2 $\frac{1}{4}$, $\frac{7}{8}$	2	2	2 - Red	13.75"
ATS10	1/0 $\frac{1}{4}$	1/0	1/0	1/0 - Yellow	16.25"
ATS1020	1/0 $\frac{1}{4}$ 2/0 $\frac{1}{4}$	1/0-2/0	1/0-2/0	1/0 - Yellow 2/0 - Grey	16.25"
ATS3040	3/0 $\frac{1}{4}$ 4/0 $\frac{1}{4}$	3/0-4/0	3/0-4/0	3/0 - Black 4/0 - Pink	23.50"
ATS40	4/0 $\frac{1}{4}$	4/0	4/0	4/0 - Pink	23.50"
ATS266336	266 $\frac{1}{4}$ 266 $\frac{26}{7}$ * 336 $\frac{1}{4}$ 336 $\frac{26}{7}$ *	312.8*	266-336	Green	23.50"
ATS397477	397 $\frac{1}{4}$ 397 $\frac{26}{7}$ * 477 $\frac{1}{4}$ *	394.5*	397-477	Blue	23.50"

*Application limited to maximum 10,000 pounds tensile.

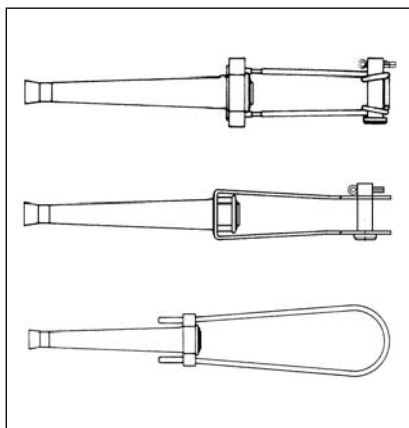


F

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Automatic Deadends



Blackburn®

- Used for deadending ACSR, AAC, and AAAC conductors.
- Complete with galvanized steel clevis pin and stainless steel cotter pin for use with standard deadend suspension insulators.
- Breaking strength exceeds 90% of rated strength of conductor up to 10,000 lb. maximum.

Blackburn's automatic deadend features the same innovative jaw design as the field-proven Blackburn Autoset Type ATS automatic tension splice. The Autoset Type ATD automatic tension deadend accepts ACSR, AAC, and AAAC conductors. Its range-taking capability helps take a bite out of inventory costs because the five sizes of Autoset replace eight sizes of other brands. Installation of the new Autoset deadend is fast and easy, thus reducing maintenance costs as well as reducing inventory.

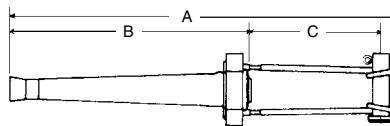
- Colour-coded caps provide instant visual identification of maximum conductor size. A separate, colour-coded tape identifies the minimum conductor size of a wide range connectors to further eliminate errors and save installation time.
- The funnel-shaped end piece swiftly

guides conductor into position for insertion.

- A pilot cup envelopes strands and guides the conductor past the serrated jaws.
- Die-cast precision-made jaws provide optimum contact area for a greater range of conductor sizes.
- The jaws and the I.D. of the tube are coated with a special microcrystalline based inhibitor/lubricant which seals the connection and provides a high pressure lubricant for long term continuous performance.
- The deadends are provided with factory installed end caps to exclude foreign material.
- Compression spring positions the unique jaw for positive conductor acceptance.

Type ATD-ZB – Autoset™ Stainless Steel Bail

Cat. No.	Conductor Range			Colour Code	Approximate Dimensions (in.)		
	ACSR	AAAC	AAC		A	B	C
ATD42ZB	4¼, 7/1	4	4	4 - Orange	12 ¹⁵ / ₁₆	7 ³ / ₁₆	5 ¹ / ₁₆
	2¼, 7/1	2	2	2 - Red			
ATD1020ZB	1/0¼	1/0	1/0	1/0 - Yellow	14½	9	4 ¹⁵ / ₁₆
	2/0¼	2/0	2/0	2/0 - Grey			
ATD3040ZB	3/0¼	3/0	3/0	3/0 - Black	20¾	11¾	8½
	4/0¼	4/0	4/0	4/0 - Pink			
ATD266336ZB	266¼	266	266	Green	20¾	11¾	8½
	336¼	336	336				
ATD397477ZB	397¼	397	397	Blue	20¾	11¾	8½
	477¼	477	477				



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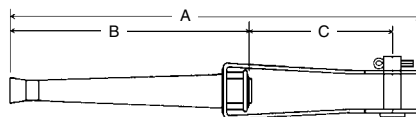
Blackburn®

Automatic Deadends

- Used for deadending ACSR, AAC, and AAAC conductors.
- Complete with galvanized steel clevis pin and stainless steel cotter pin for use with standard deadend suspension insulators.
- Slots provided for use with standard pulling hooks.
- Breaking strength exceeds 90% of rated strength of conductor up to 10,000 lb. maximum.

Type ATD-CB – Autoset™ Clevis Bracket

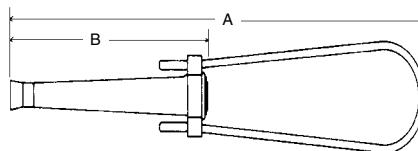
Cat. No.	Conductor Range			Colour Code	Approximate Dimensions (in.)		
	ACSR	AAAC	AAC		A	B	C
ATD42CB	4 $\frac{1}{4}$, 7 $\frac{1}{4}$	4	4	4 - Orange	12 $\frac{3}{16}$	7 $\frac{3}{16}$	5 $\frac{1}{16}$
	2 $\frac{1}{4}$, 7 $\frac{1}{4}$	2	2	2 - Red			
ATD1020CB	1/0 $\frac{1}{4}$	1/0	1/0	1/0 - Yellow	15 $\frac{1}{4}$	9	5 $\frac{3}{8}$
	2/0 $\frac{1}{4}$	2/0	2/0	2/0 - Grey			
ATD3040CB	3/0 $\frac{1}{4}$	3/0	3/0	3/0 - Black	20 $\frac{3}{4}$	11 $\frac{1}{4}$	6 $\frac{1}{2}$
	4/0 $\frac{1}{4}$	4/0	4/0	4/0 - Pink			
ATD266336CB	266 $\frac{1}{4}$	266	266	Green	19 $\frac{3}{16}$	11 $\frac{3}{4}$	6 $\frac{1}{2}$
	336 $\frac{1}{4}$	336	336				
ATD397477CB	397 $\frac{1}{4}$	397	397	Blue	19 $\frac{3}{16}$	11 $\frac{3}{4}$	6 $\frac{1}{2}$
	477 $\frac{1}{4}$	477	477				



- Used for deadending ACSR, AAC, and AAAC conductors.
- Flexible Bail for use with spool and other type insulators where flexibility is a requirement.
- Breaking strength exceeds 90% of rated strength of conductor.

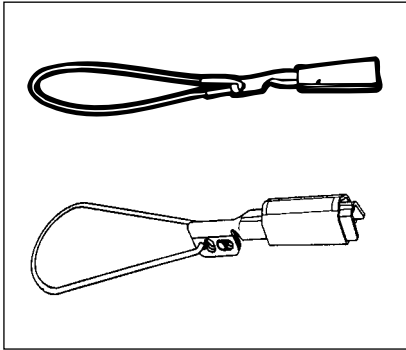
Type ATD-FB – Autoset™ Flexible Bail

Cat. No.	Conductor Range			Colour Code	Approximate Dimension (in.)	
	ACSR	AAAC	AAC		A	B
ATD42FB	4 $\frac{1}{4}$, 7 $\frac{1}{4}$	4	4	4 - Orange	14 $\frac{3}{16}$	7 $\frac{3}{16}$
	2 $\frac{1}{4}$, 7 $\frac{1}{4}$	2	2	2 - Red		
ATD1020FB	1/0 $\frac{1}{4}$	1/0	1/0	1/0 - Yellow	18 $\frac{3}{8}$	9
	2/0 $\frac{1}{4}$	2/0	2/0	2/0 - Grey		



Blackburn®

Service Wedge Clamps

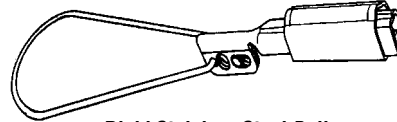


TYPE W

- For dead-ending self-supporting drop wire.
- Saves conductor—drop wire may be cut to exact length.
- Can be attached to bare neutral at any point in the span.
- Adjustments in drop wire sag are easily made.
- Grips ACSR, AAAC, or aluminum conductor.



"FC" Flexible Bail
(Bail Length - 11½")



Rigid Stainless Steel Bail
(Bail Length - 6½")

Type W – Aluminum Service Wedge Clamps for use with ACSR, Aluminum, AAAC Conductor

Cat. No.	Description	Conductor Range			Dimensions		Typical Tensile Values	
		ACSR	AL	AAAC	D	L	Conductor	Value (lb.)
W62-1	W-1 Series Aluminum Wedge and Slider	2—6	1 str.— 6 sol.	2—6	2⅜ flex.	12 17½	2 6 x 1 ACSR	1200
W62-1FC								
W20-1		1/0—4	2/0 str.— 2 sol.	1/0—4	2⅜ flex.	12½ 18½	1/0 6 x 1 ACSR	1800
W20-1FC								
W40-1*		4/0—2/0	4/0 str.— 2/0 sol.	4/0—2/0	2⅜ flex.	12¾ 18½	4/0 6 x 1 ACSR	1900
W40-1FC*								
W62-1B	W-1B Series For extremely corrosive areas. Iridited Aluminum	2—6	1 str.— 6 sol.	2—6	2⅜ flex.	12 17½	2 6 x 1 ACSR	1200
W62-1BFC								
W20-1B		1/0—4	2/0 str.— 2 sol.	1/0—4	2⅜ flex.	12½ 18½	1/0 6 x 1 ACSR	1800
W20-1BFC								
W40-1B*		4/0—2/0	4/0 str.— 2/0 sol.	4/0—2/0	2⅜ flex.	12¾ 18½	4/0 6 x 1 ACSR	1900
W40-1BFC*								

* W40 series clamps rated 850 lb. ultimate tension for 1/0 ACSR, AL, or AAAC.

Type W – Stainless Steel Wedge Clamps

Cat. No.	Conductor Range		Dimensions		Typical Tensile Values	
	Stranded	Solid	D	L	Conductor	Value (lb.)
W62D*	2—6	1—6	2⅜	12	2—7 str. AAC	1300

- For use on copper neutral
- Stainless steel wedge and slider

