

Blackburn® Compression Connectors Featuring the Color-Keyed® System

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Blackburn® Compression Connectors Featuring the Color-Keyed® System

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Overview

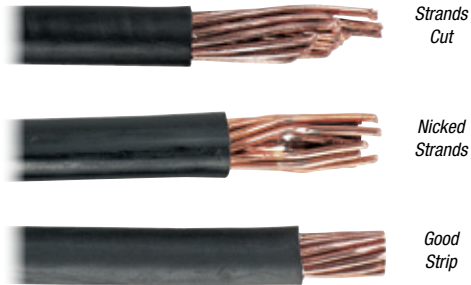
The Thomas & Betts Method is Better.

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!

Step 1

Carefully strip the insulation on de-energized wires to avoid nicking or cutting conductors (wire brush if required).



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

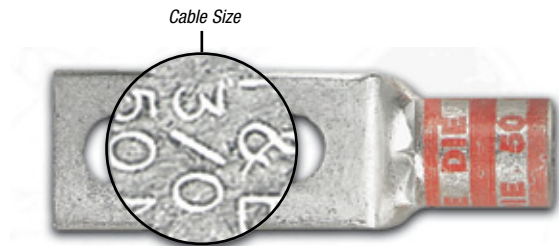


Step 2

Determine the proper Blackburn® Connector for the cable size being used. Connectors are marked to show 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.



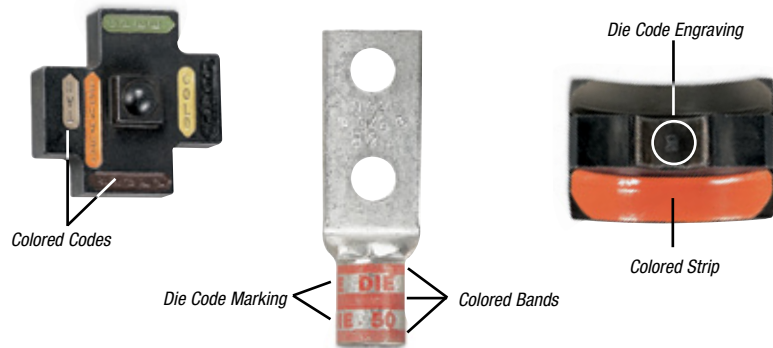
Overview

Step 3

Select the proper installing die and appropriate tool.

Blackburn® Connectors featuring the Color-Keyed® system 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.



Step 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.

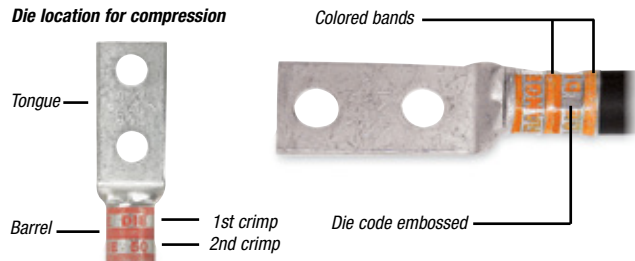
Copper
Die located
BETWEEN bands



Aluminum
Die located
ON Bands



Die location for compression



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

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.

Overview

Precision Dies Form 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.

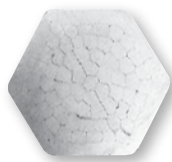
The circumferential compression creates a large area of high-pressure contact between cable and connector which, in turn, assures high conductivity, low resistance, and high pullout values which exceed UL requirements. These features result in a permanent, low installed cost connection. You can install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



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



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, nearly 100% metal with virtually no air spaces.

Blackburn® connectors featuring the Color-Keyed® system 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.

Copper

Die located BETWEEN bands



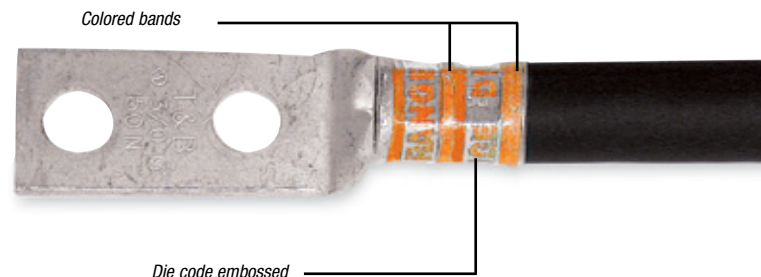
Aluminum

Die located ON Bands



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.



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

Overview

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.



Battpac® LT Pump

The newest battery-powered hydraulic pump, rated for 10,000 psi. Portable power for all T&B hydraulic heads, using just one Ni-MH 24V rechargeable battery.



TBM62BSCR

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



TBM6S

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

Thomas & Betts Method Components Meet Industry Standards.

Depending on the application, all Thomas & Betts copper connectors meet UL Std. 486A for code stranded and 24 gauge flex, CSA Std. C22.2, No. 65 600-Volt requirements for power and UL 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 #8 AWG 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.

Blackburn® two-hole lugs featuring the Color-Keyed® system 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.

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 Blackburn® connectors featuring the Color-Keyed® system are made of high-conductivity wrought copper, and are electro-tin plated to prevent corrosion and to improve conductivity. Thomas & Betts Blackburn® connectors featuring the Color-Keyed® system 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.

Overview

Special Lugs for Special Problems — Angled, Shaped and Trimmed the Way You 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, 15°, 30°, 45°, 60° and 90° angle
- Stacking or non-stacking
- Narrow tongue or standard
- Tin, silver, lead, nickel

Thomas & Betts offers an extensive line of copper Blackburn® lugs featuring the Color-Keyed® system 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.
- 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 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 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-cancelable.



Overview

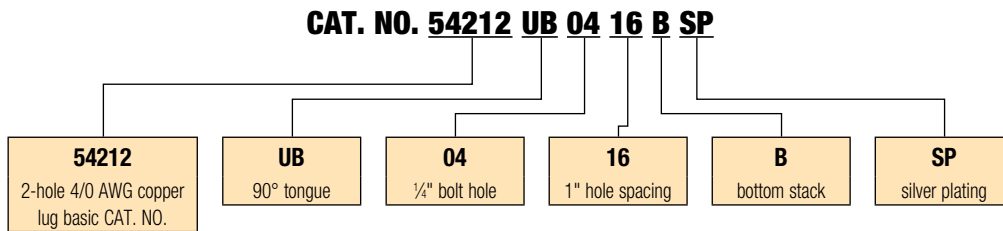
Order Form

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)



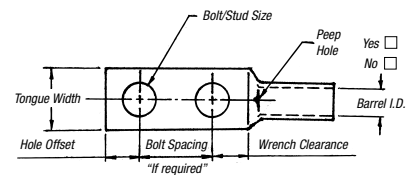
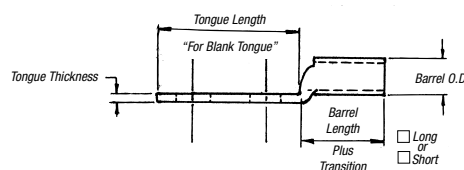
Code Table

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	
15°	UI	#8	.173	02	1/2"	08	Top	T**	Silver Plate	SP	Peep Hole	PH	Blind End	BE
30°	UT	#10	.204	03	5/8"	10	Bottom	B	Lead Plate	LP				
45°	UF	1/4"	.281	04	3/4"	12			Nickel Plate	NP				
60°	US	3/8"	.344	05	7/8"	14			Plain Finish	PF				
90°	UB	3/8"	.406	06	1"	16			No Marking	NM				
Blank	BT	1/2"	.531	08	1 1/8"	18			Not QTP if					
(No Bolt Hole)		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 1 1/8".

** Not required for 45° & 90° top stacking.

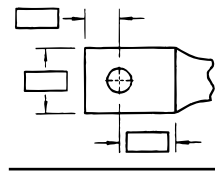
Cable	Code	Weld
<input type="checkbox"/> #8	<input type="checkbox"/> #6	<input type="checkbox"/> #4
<input type="checkbox"/> #2	<input type="checkbox"/> #1	<input type="checkbox"/> 1/0
<input type="checkbox"/> 2/0	<input type="checkbox"/> 3/0	<input type="checkbox"/> 4/0
<input type="checkbox"/> 250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



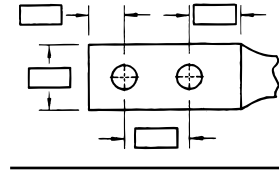
Overview

Tongue Specifications — See Chart “A” For Dimensions

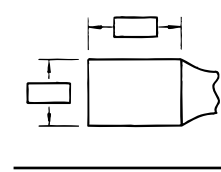
Stud Sizes		
□ #8	□ #10	□ ¼"
□ ⅝"	□ ⅜"	□ ½"
□ ⅝"	□ ¾"	□ ⅞"
□ 1"		



□ 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
¼	.281	.250	.312	.469	.500	.562	.593	.672	.750	.825	.937	1.030	1.125
⅝	.344	.375	.406	.562	.562	.562	.675	.672	.750	.825	.937	1.030	1.125
⅜	.406	.375	.440	.578	.578	.594	.675	.672	.750	.825	.937	1.030	1.125
½	.531	.500	.562	—	—	—	.750	.750	.750	.825	.937	1.030	1.125
⅝	.656	.625	.875	—	—	—	—	—	—	—	.937	1.030	1.125
¾	.812	.750	.770	—	—	—	—	—	—	—	—	—	—
⅞*	.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	.520	.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	—
1,000	.297	3.356	4.500	1.550	1.203	.890	2.070	1.675	2.031	2.787	1.487	4.506

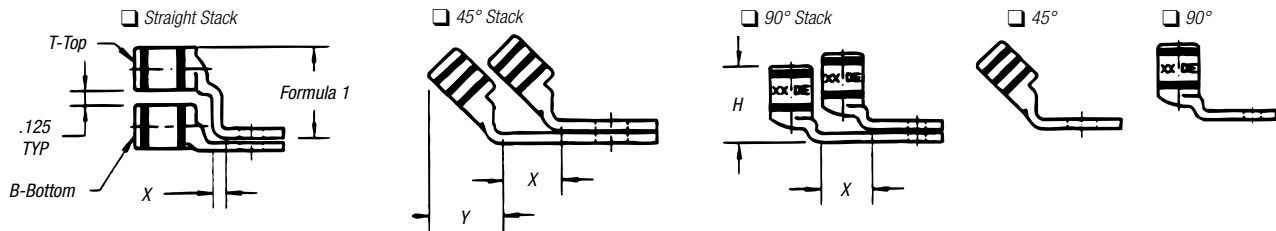
Note: Stacking lugs are available for one bolt only.

Consult Factory: Straight: 700 kcmil & up.

45°: 400 kcmil & up

90°: 500 kcmil & up

Overview



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
⅜	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

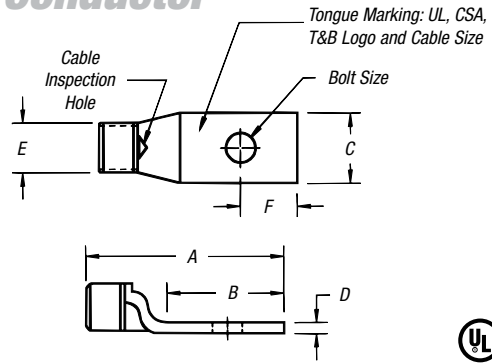
* These bolt holes available in one-hole lug only.

Compression Connectors for Copper Conductor

One-Hole Lugs — Standard Barrel 600V to 35kV

Material: High-Conductivity Wrought Copper

Finish: Electro Tin Plate



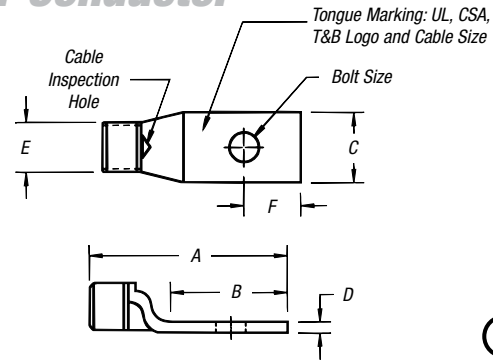
CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)						DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	A	B	C	D	E	F		
54101			¼	1.23	.56	.50	.05	.20	¼		"C" NEST
256-30695-1351	#14-10 AWG		#8	1.36	.68	.36	.05	.20	¼	ERG4002	
256-30695-1352			¼	1.36	.68	.41	.05	.20	¼	ERG4005	
256-30695-263			¼	1.69	.81	.50	.07	.20	¼		
54104			#10	1.16	.50	.39	.08	.25	7/32	21	RED
54130		23 Navy	¼	1.20	.61	.45	.07	.25	¼	21	
54131	#8 AWG	#8 Weld	5/16	1.33	.64	.56	.05	.25	9/32	21	
54132		37/24 = 14.9 kcmil	3/8	1.33	.64	.56	.05	.25	9/32	21	
256-30695-424			½	1.75	1.31	1.00	.13	.25	½	21	
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	
54105		#6 Weld	¼	1.23	.53	.44	.07	.31	7/32	24	
54135	#6 AWG	61/24 = 24.6 kcmil	5/16	1.41	.67	.60	.07	.31	5/16	24	
54136		133/.014	3/8	1.41	.67	.60	.07	.31	5/16	24	
256-30695-282			3/8	1.41	.75	.56	.06	.31	5/16	24	
256-30695-422			½	1.75	1.31	1.00	.13	.31	½	24	
256-30695-1362			#12	1.38	.60	.55	.09	.37	¼	29	GRAY
54138		#4 Weld	#10	1.38	.60	.55	.09	.37	¼	29	
54106		40-50 Navy	¼	1.38	.60	.55	.09	.37	¼	29	
54139	#4 AWG	91/24 = 36.7 kcmil	5/16	1.42	.66	.61	.07	.37	5/16	29	
54140		133/.0177	3/8	1.42	.66	.61	.07	.37	5/16	29	
256-30695-233		49/.029	3/8	1.56	.75	.59	.06	.37	5/16	29	
256-30695-264		#5 91/24	½	2.20	1.40	1.00	.06	.37	½	29	
54107			¼	1.50	.65	.59	.11	.41	¼	33	BROWN
54142-TB	#2 AWG	#60 Navy	5/16	1.73	.88	.59	.11	.41	3/8	33	
54143-TB		125/24 = 50.5 kcmil	3/8	1.65	.80	.59	.11	.41	3/8	33	
54145-TB		#3 Weld	½	1.92	1.08	.75	.08	.41	½	33	
54108		75 Navy, #2 Weld	¼	1.50	.65	.68	.11	.47	¼	37	GREEN
54147	#1 AWG	150/24 = 60.5 kcmil	5/16	1.73	.93	.68	.11	.47	3/8	37	
54148		175/24 = 70.6 kcmil	3/8	1.78	.98	.68	.11	.47	3/8	37	
54150		133/.0223	½	2.10	1.25	.76	.11	.47	½	37	
54152-TB			¼	1.60	.65	.75	.13	.52	¼	42	PINK
54153-TB		#100 Navy	5/16	1.83	.88	.75	.13	.52	3/8	42	
54109	1/0 AWG	#1 Weld	3/8	1.88	.93	.75	.13	.52	3/8	42	
54155-TB		225/24 = 90.8 kcmil	½	2.20	1.25	.75	.13	.52	½	42	
256-30695-1383		133/.0254	5/8	2.54	1.50	.88	.13	.52	5/8	42	
54157		125 Navy	¼	1.65	.65	.83	.13	.57	¼	45	BLACK
54158		1/0 Weld	5/16	1.88	.88	.83	.13	.57	3/8	45	
54110	2/0 AWG	275/24 = 111 kcmil	3/8	1.93	.93	.83	.13	.57	3/8	45	
54160		427/.0155	½	2.25	1.25	.83	.13	.57	½	45	
256-30695-131		133/.0282	5/8	2.56	1.50	.83	.13	.57	5/8	45	

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)						DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M ¹	BOLT SIZE	A	B	C	D	E	F		
54162-TB		150 Navy, 2/0 Weld	¼	1.75	.65	.92	.13	.63	¼	50	ORANGE
54163-TB	3/0 AWG	325/24 = 131 kcmil	⅝	1.98	.88	.92	.13	.63	⅝	50	
54111		133/.0316, 259/.0227	⅜	2.03	.93	.92	.13	.63	⅜	50	
54165-TB		427/.0177	½	2.35	1.25	.92	.13	.63	½	50	PURPLE
54167	4/0 AWG	200 Navy	¼	1.90	.65	1.03	.14	.70	¼	54	
54168		3/0 Weld	⅝	2.13	.87	1.03	.14	.70	⅝	54	
54112		450/24 = 182 kcmil	⅜	2.18	.93	1.03	.14	.70	⅜	54	
54170		703/.0154	½	2.50	1.25	1.03	.14	.70	½	54	YELLOW
256-30695-1174			¾	2.86	1.56	1.03	.14	.70	¾	54	
58161		4/0 Weld	¼	2.23	.78	1.25	.15	.79	⅝	62	
58162		550/24 = 222 kcmil	⅝	2.33	.88	1.25	.15	.79	⅝	62	YELLOW
58163		133/.0399	⅜	2.38	.93	1.25	.15	.79	⅜	62	
58165		259/.0286	½	2.76	1.25	1.25	.15	.79	½	62	
58166		637/.0183	⅝	3.03	1.58	1.25	.15	.79	⅝	62	WHITE
54172-TB			¼	2.00	.65	1.13	.14	.77	½	62	
54173	250 kcmil	250 Navy	⅝	2.23	.88	1.13	.14	.77	⅝	62	
54174			⅜	2.28	.93	1.13	.14	.77	⅜	62	
54113			½	2.60	1.25	1.13	.14	.77	½	62	RED
58168		250 Weld, 650/24 = 262 kcmil, 259/.0311, 703/.0189	½	2.70	1.25	1.25	.15	.85	½	66	
54178	300 kcmil	300 Navy	⅝	2.33	.88	1.25	.15	.85	⅝	66	
54179			⅜	2.43	.93	1.25	.15	.85	⅜	66	
54114			½	2.70	1.25	1.25	.15	.85	½	66	
54181			⅝	3.03	1.58	1.25	.15	.85	¾	66	RED
58171		300 Weld, 259/.034, 427/.0265, 889/.0183 775/24 = 313 kcmil	½	2.85	1.25	1.36	.18	.93	½	71	
256-30695-112			⅝	2.90	1.13	1.36	.18	.93	½	71	
54115	350 kcmil	350 Navy	½	2.85	1.25	1.36	.18	.93	½	71	BLUE
54183			⅝	3.21	1.58	1.36	.18	.93	¾	71	
58174		350 Weld, 259/.0368, 427/.0285, 703/.0224, 889/.0201	½	3.35	1.25	1.61	.22	1.09	½	76	
54116	400 kcmil	400 Navy	½	3.20	1.25	1.41	.17	.96	½	76	BLUE
54185			⅝	3.53	1.58	1.41	.17	.96	¾	76	

¹ Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

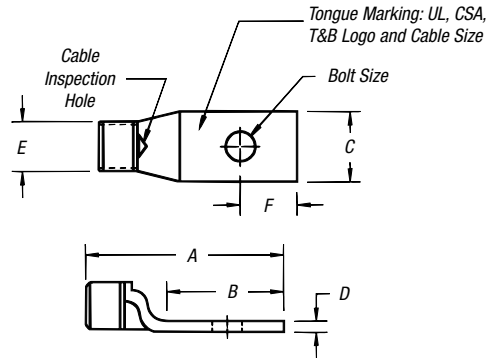
Die Selector Chart: pp. F-101-F-104

Compression 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			DIMENSIONS (IN.)						DIE CODE	DIE COLOR	
	CODE	FLEX CLASS G, H, I, K, M [†]	BOLT SIZE	A	B	C	D	E	F			
		400 Weld										
256-30695-1403		925/24 = 373 kcmil	3/8	3.31	1.31	1.61	.22	1.04	5/8	80	N/A	
58177		259/.0393 or 427/.0306	1/2	3.31	1.25	1.61	.22	1.04	1/2	80		
256-30695-339			3/8	3.10	1.00	1.61	.22	1.10	3/8	87	BROWN	
54118	500 kcmil	500 Navy	1/2	3.30	1.25	1.61	.22	1.10	1/2	87		
54187			3/8	3.63	1.58	1.61	.22	1.10	5/8	87		
58180		450 Flex, 1127, 4522 1100/24 = 444 kcmil	3/8	3.79	1.58	1.75	.24	1.20	5/8	94	GREEN	
256-30695-1370			1/2	3.65	1.44	1.75	.24	1.20	3/16	94		
54120	600 kcmil		3/8	3.79	1.58	1.75	.24	1.20	5/8	94	PINK	
54122-TB	700 kcmil		3/8	3.68	1.58	1.84	.23	1.26	5/8	99		
256-30695-1404			3/8	3.29	1.29	1.81	.28	1.25	2 1/32	99	PINK	
256-30695-1405		1325/24 = 535 kcmil	1/2	3.29	1.29	1.81	.28	1.25	2 1/32	99		
256-30695-840		500 Flex 427/.0342	1/2	4.00	1.69	1.81	.28	1.25	3 1/64	99		
58182		259, 4125, 5054	3/8	3.83	1.58	1.81	.28	1.25	5/8	99	BLACK	
256-30695-193			1/2	4.00	1.69	1.94	.27	1.33	3 1/64	106		
54123-TB	750 kcmil	600 Flex 427	3/8	3.87	1.58	1.94	.27	1.33	5/8	106		
58184		1600/24 = 646 kcmil	3/8	3.80	1.58	1.94	.27	1.33	5/8	106	ORANGE	
54124-TB	800 kcmil	800 Navy	5/8	4.04	1.58	2.01	.27	1.38	5/8	107		
256-30695-843		1925/24 = 777 kcmil	1/2	4.31	1.81	2.17	.31	1.50	7/8	115	YELLOW	
54126	900 kcmil											
54126		900 Navy	3/8	4.15	1.58	2.17	.31	1.50	5/8	115	N/A	
54128	1000 kcmil	1000 Navy	5/8	4.09	1.58	2.27	.30	1.55	5/8	125		

[†] Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

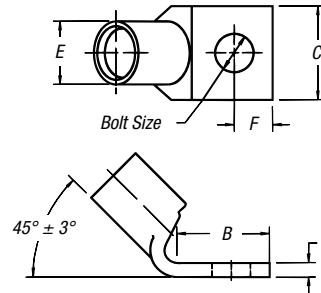
Note: Angled Lugs can be readily available as: 15°, 30°, 45°, 60°, and 90°

Compression Connectors for Copper Conductor

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

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	CODE	WIRE SIZE		DIMENSIONS (IN.)						DIE CODE	DIE COLOR
		FLEX CLASS G, H, I, K, M†	BOLT SIZE	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		
54131UF		37/24 = 14.9 kcmil	3/16	.64	.56	.05	.25	5/32	21		
54132UF	#6 AWG		3/8	.64	.56	.05	.25	1/2	21	BLUE	
54134UF		30 Navy	#10	.53	.44	.07	.31	7/32	24		
54105UF		#6 Weld	1/4	.53	.44	.07	.31	7/32	24		
54135UF		61/24 = 24.6 kcmil	5/16	.67	.60	.07	.31	5/16	24		
54136UF	133/.014	3/8	.67	.60	.07	.31	5/16	24	GRAY		
54138UF	#4 Weld	#10	.60	.55	.09	.37	1/4	29			
54106UF	40-50 Navy	1/4	.60	.55	.09	.37	1/4	29			
54139UF	91/24 = 36.7 kcmil	5/16	.66	.61	.07	.37	5/16	29			
54140UF	133/.0177	3/8	.66	.61	.07	.37	5/16	29			
256-30695-264UF	49/.029	1/2	1.40	1.00	.06	.37	1/2	29	BROWN		
54107UF	#5-91/24										
54142UF	#2 AWG	60 Navy	1/4	.65	.59	.11	.41	1/4		33	
54143UF		125/24 = 50.4 kcmil	5/16	.88	.59	.11	.41	3/8		33	
54145UF		#3 Weld	1/2	1.08	.75	.08	.41	1/2		33	
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		
54148UF		175/24 = 70.6 kcmil	3/8	.98	.68	.11	.47	3/8	37		
54150UF		133/.0223	1/2	1.25	.76	.11	.47	1/2	37		
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		
54109UF		225/24 = 90.8 kcmil	3/8	.93	.75	.13	.52	3/8	42		
54155UF		133/.0254	1/2	1.25	.75	.13	.52	1/2	42		
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		
54110UF		275/24 = 111 kcmil	3/8	.93	.83	.13	.57	3/8	45		
54160UF		427/.0155, 133/.0282	1/2	1.25	.83	.13	.57	1/2	45		
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		
54111UF		133/.0316, 259/.0227	3/8	.93	.92	.13	.63	3/8	50		
54165UF		427/.0177	1/2	1.25	.92	.13	.63	1/2	50		
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		
54112UF		450/24 = 182 kcmil	3/8	.93	1.03	.14	.70	3/8	54		
54170UF		703/.0154	1/2	1.25	1.03	.14	.70	1/2	54		
58161UF	4/0 AWG	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		
58163UF		133/.0399	3/8	.93	1.25	.15	.79	3/8	62		
58165UF		259/.0286	1/2	1.25	1.25	.15	.79	1/2	62		
58166UF		637/.0183	3/8	1.58	1.25	.15	.79	3/8	62		

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

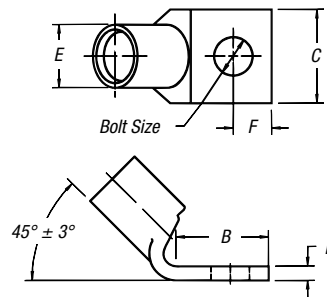
Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

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

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)					DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F		
54172UF			¼	.65	1.13	.14	.77	¼	62	YELLOW
54173UF	250 kcmil	250 Navy	⅙	.88	1.13	.14	.77	⅝	62	
54174UF			⅜	.93	1.13	.14	.77	⅝	62	
54113UF			½	1.25	1.13	.14	.77	½	62	
58168UF		250 Weld, 650/24 = 262 kcmil, 259/.0311, 703/.0189	½	1.25	1.25	.15	.85	½	66	WHITE
54178UF	300 kcmil	300 Navy	⅙	.88	1.25	.15	.85	⅝	66	
54179UF			⅜	.93	1.25	.15	.85	⅝	66	
54114UF			½	1.25	1.25	.15	.85	½	66	
54181UF			⅝	1.58	1.25	.15	.85	⅝	66	
58171UF		300 Weld, 259/.034, 427/.0265, 889/.0183 775/24 = 313 kcmil	½	1.25	1.36	.18	.93	½	71	RED
54115UF06	350 kcmil	350 Navy	⅝	1.25	1.36	.18	.93	½	71	
54115UF			½	1.25	1.36	.18	.93	½	71	
54183UF			⅝	1.58	1.36	.18	.93	⅝	71	
58174UF		350 Weld, 259/.0368, 427/.0285, 703/.0224, 889/.0201	½	1.25	1.61	.22	1.09	½	76	BLUE
54116UF	400 kcmil	400 Navy	½	1.25	1.41	.17	.96	½	76	
54185UF			⅝	1.58	1.41	.17	.96	⅝	76	
58177UF06			400 Weld	⅝	1.31	1.61	.22	1.04	⅝	
58177UF			925/24 = 373 kcmil	½	1.25	1.61	.22	1.04	½	80
54118UF	500 kcmil	500 Navy	½	1.25	1.61	.22	1.10	½	87	BROWN
54187UF			⅝	1.58	1.61	.22	1.10	⅝	87	
58180UF		1100/24 = 444 kcmil, 450, 1127 450, 4522	⅝	1.58	1.75	.24	1.20	½	94	GREEN
54120UF	600 kcmil		⅝	1.58	1.75	.24	1.20	½	94	
54122UF	700 kcmil		⅝	1.58	1.84	.23	1.26	½	99	PINK
58182UF		1325/24 = 535 kcmil	½	1.69	1.81	.28	1.25	⅜	99	
58182UF		427/.0342	⅝	1.58	1.81	.28	1.25	⅝	99	
54123UF	750 kcmil	600 Flex 427 Str.	⅝	1.58	1.94	.27	1.33	⅝	106	BLACK
58184UF		1600/24 = 646 kcmil	⅝	1.58	1.94	.27	1.33	⅝	106	
54124UF	800 kcmil	800 Navy	⅝	1.58	2.01	.27	1.38	⅝	107	ORANGE
54126UF	900 kcmil	1925/24 = 777 kcmil, 900 Navy	⅝	1.58	2.17	.31	1.50	⅝	115	YELLOW
54128UF	1000 kcmil	1000 Navy	⅝	1.58	2.27	.30	1.55	⅝	125	N/A

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

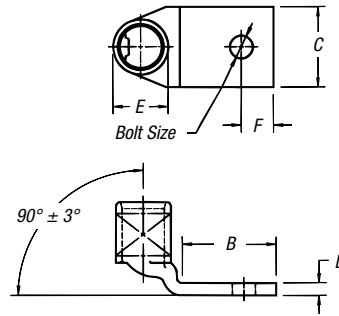
Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

One-Hole Lugs — 90° Standard Barrel 600V to 35kV

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



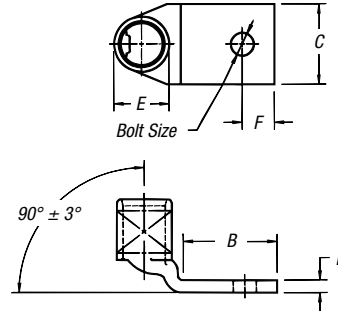
CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)					DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F		
54104UB		23 Navy	#10	.50	.39	.08	.25	7/32	21	RED
54130UB	#8 AWG	#8 Weld	1/4	.61	.45	.07	.25	1/4	21	
54131UB		37/24 = 14.9 kcmil	5/16	.64	.56	.05	.25	9/32	21	
54132UB			3/8	.64	.56	.05	.25	9/32	21	
54134UB		30 Navy	#10	.53	.44	.07	.31	7/32	24	BLUE
54105UB	#6 AWG	#6 Weld	1/4	.53	.44	.07	.31	7/32	24	
54135UB		61/24 = 24.6 kcmil	5/16	.67	.60	.07	.31	5/16	24	
54136UB		133/.014	3/8	.67	.60	.07	.31	5/16	24	
54138UB		#4 Weld	#10	.60	.55	.09	.37	1/4	29	GRAY
54106UB	#4 AWG	40-50 Navy	1/4	.60	.55	.09	.37	1/4	29	
54139UB		91/24 = 36.7 kcmil	5/16	.66	.61	.07	.37	5/16	29	
54140UB		133/.0177	3/8	.66	.61	.07	.37	5/16	29	
256-30695-264UB		49/.029	1/2	1.40	1.00	.06	.37	1/2	29	
		#5-91/24								
54107UB		60 Navy	1/4	.65	.59	.11	.41	1/4	33	BROWN
54142UB	#2 AWG	125/24 = 50.4 kcmil	5/16	.88	.59	.11	.41	3/8	33	
54143UB		#3 Weld	3/8	.80	.59	.11	.41	3/8	33	
54145UB			1/2	1.08	.75	.08	.41	1/2	33	
54108UB		75 Navy, #2 Weld	1/4	.65	.68	.11	.47	1/4	37	GREEN
54147UB	#1 AWG	150/24 = 60.5 kcmil	5/16	.93	.68	.11	.47	3/8	37	
54148UB		175/24 = 70.6 kcmil	3/8	.98	.68	.11	.47	3/8	37	
54150UB		133/.0223	1/2	1.25	.76	.11	.47	1/2	37	
54152UB		100 Navy	1/4	.65	.75	.13	.52	1/4	42	PINK
54153UB	1/0 AWG	#1 Weld	5/16	.88	.75	.13	.52	3/8	42	
54109UB		225/24 = 90.8 kcmil	3/8	.93	.75	.13	.52	3/8	42	
54155UB		133/.0254	1/2	1.25	.75	.13	.52	1/2	42	
54157UB		125 Navy	1/4	.65	.83	.13	.57	1/4	45	BLACK
54158UB	2/0 AWG	1/0 Weld	5/16	.88	.83	.13	.57	3/8	45	
54110UB		275/24 = 111 kcmil	3/8	.93	.83	.13	.57	3/8	45	
54160UB		427/.0155, 133/.0282	1/2	1.25	.83	.13	.57	1/2	45	
54162UB		150 Navy, 2/0 Weld	1/4	.65	.92	.13	.63	1/4	50	ORANGE
54163UB	3/0 AWG	325/24 = 131 kcmil	5/16	.88	.92	.13	.63	3/8	50	
54111UB		133/.0316, 259/.0227	3/8	.93	.92	.13	.63	3/8	50	
54165UB		427/.0177	1/2	1.25	.92	.13	.63	1/2	50	
54167UB		200 Navy	1/4	.65	1.03	.14	.70	1/4	54	PURPLE
54168UB	4/0 AWG	3/0 Weld	5/16	.87	1.03	.14	.70	3/8	54	
54112UB		450/24 = 182 kcmil	3/8	.93	1.03	.14	.70	3/8	54	
54170UB		703/.0154	1/2	1.25	1.03	.14	.70	1/2	54	
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	
58163UB		133/.0399	3/8	.93	1.25	.15	.79	3/8	62	
58165UB		259/.0286	1/2	1.25	1.25	.15	.79	1/2	62	
58166UB		637/.0183	3/8	1.58	1.25	.15	.79	5/8	62	

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

One-Hole Lugs — 90° 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 CLASS G, H, I, K, M [†]		B	C	D	E	F										
54172UB	250 kcmil	250 Navy	¼	.65	1.13	.14	.77	¼	62	YELLOW								
54173UB			⅝	.88	1.13	.14	.77	⅜	62									
54174UB			¾	.93	1.13	.14	.77	⅝	62									
54113UB			½	1.25	1.13	.14	.77	½	62									
58168UB	300 kcmil	300 Navy	½	1.25	1.25	.15	.85	½	66	WHITE								
54178UB											250 Weld, 650/24 = 262 kcmil, 259/.0311, 703/.0189	⅝	.88	1.25	.15	.85	⅜	66
54179UB											¾	.93	1.25	.15	.85	⅝	66	
54114UB											½	1.25	1.25	.15	.85	½	66	
54181UB											¾	1.58	1.25	.15	.85	⅝	66	
58171UB	350 kcmil	350 Navy	½	1.25	1.36	.18	.93	½	71	RED								
256-30695-112UB											300 Weld, 259/.034, 427/.0265, 889/.0183 775/24 = 313 kcmil	¾	1.25	1.36	.18	.93	½	71
54115UB											½	1.25	1.36	.18	.93	½	71	
54183UB	¾	1.58	1.36	.18	.93	⅝	71											
58174UB	400 kcmil	400 Navy	½	1.25	1.61	.22	1.09	½	76	BLUE								
54116UB											350 Weld, 259/.0368, 427/.0285, 703/.0224, 889/.0201	¾	1.25	1.61	.22	1.09	½	76
54185UB											¾	1.58	1.61	.22	1.04	⅝	76	
256-30695-1403UB	500 kcmil	500 Navy	½	1.25	1.61	.22	1.04	½	80	N/A								
58177UB											400 Weld, 925/24 = 373 kcmil 259/.0393, 427/.0306	¾	1.31	1.61	.22	1.04	⅝	80
54118UB											½	1.25	1.61	.22	1.04	½	80	
54187UB	¾	1.58	1.61	.22	1.10	⅝	87											
58180UB	600 kcmil	600 Navy	¾	1.58	1.75	.24	1.20	⅝	94	GREEN								
54120UB											500 Flex, 427/.0342, 259, 1125, 5054	¾	1.58	1.75	.24	1.20	⅝	94
54122UB											1100/24 = 444 kcmil, 450, 1127 450, 4522	¾	1.58	1.75	.24	1.20	⅝	94
256-30695-840UB	750 kcmil	750 Navy	½	1.69	1.81	.28	1.25	1¼	99	PINK								
58182UB											600 Flex 427	¾	1.69	1.81	.28	1.25	⅝	99
54123UB	1600/24 = 646 kcmil	¾	1.58	1.94	.27	1.33	⅝	106										
58184UB	800 Navy	¾	1.58	1.94	.27	1.33	⅝	106	BLACK									
54124UB	800 Navy	¾	1.58	2.01	.27	1.38	⅝	107	ORANGE									
54126UB	900 Navy	¾	1.58	2.17	.31	1.50	⅝	115	YELLOW									
54128UB	1000 Navy	¾	1.58	2.27	.30	1.55	⅝	125	N/A									

[†] Contact Technical Services for specific stranding listings

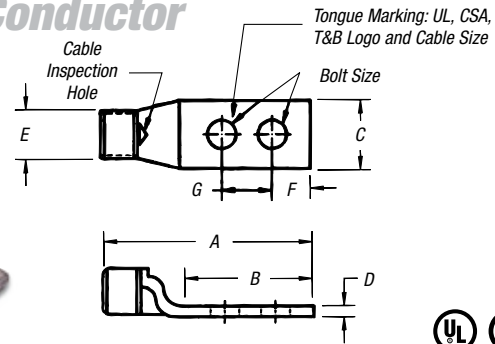
Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Compression 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				DIMENSIONS (IN.)							DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	A	B	C	D	E	F	G			
54201	#14-10 AWG		¼	1.86	1.19	.50	.05	.20	¼	⅝	ERG4002,	"C" NEST	
256-30695-1302			⅜	2.48	1.81	.56	.04	.22	⅝	1	ERG4005		
54204	8 AWG #7 LS	23 Navy #8 Weld 37/24 = 14.9 kcmil	#10	1.88	1.18	.42	.08	.26	¼	⅝	21	RED	
256-31426-33*			#10	1.88	1.18	.41	.06	.26	⅜	⅝-¾	21		
256-31426-33PH			#10	1.88	1.18	.41	.06	.26	⅜	⅝-¾	21		
542040410			¼	2.01	1.31	.42	.08	.26	¼	⅝	21		
542040416			¼	2.38	1.68	.42	.08	.26	¼	1	21		
256-30695-1094			¼	2.50	1.81	.56	.05	.26	¼	¾	21		
256-30695-251			⅝	2.50	1.81	.56	.05	.26	⅝	1	21		
256-30695-1070			#12	1.81	1.19	.44	.11	.30	¼	½-⅝	24		
256-30695-1153			#10	1.98	1.28	.44	.08	.30	¼	½	24		
256-30695-1183			#10	1.98	1.19	.44	.08	.30	⅜	⅝-¾	24		
54205	#6 AWG	30 Navy #6 Weld 61/24 = 24.6 kcmil	¼	1.98	1.28	.44	.08	.30	¼	⅝	24	BLUE	
256-30695-1095			¼	2.13	1.31	.43	.08	.30	¼	¾	24		
256-30695-252			¼	2.38	1.63	.43	.08	.30	¼	1	24		
256-30695-372			¼	2.13	1.43	.43	.08	.30	¼	¾	24		
256-30695-913			¼	2.38	1.75	.43	.08	.30	¼	1	24		
256-30695-253			⅝	2.58	1.81	.55	.08	.30	⅝	1	24		
54206			#4 AWG	40-50 Navy, #4 Weld #5, 91/24 = 36.7 kcmil	¼	2.03	1.28	.52	.10	.37	¼		⅝
256-30695-1184	⅝	2.31			1.63	.52	.10	.37	⅝	1	29		
256-30695-255	⅝	2.56			1.81	.59	.09	.37	⅝	1	29		
54207	#3 AWG #2 AWG	#3 Flex 60 Navy 125/24 = 50.4 kcmil	¼	2.13	1.28	.59	.11	.41	¼	⅝	33	BROWN	
256-30695-1355			¼	2.15	1.31	.59	.13	.41	¼	¾	33		
256-30695-1185			¼	2.38	1.53	.59	.11	.41	¼	1	33		
256-30695-257			½	2.67	1.81	.60	.1	.41	⅝	1	33		
256-30695-1049			½	3.75	2.88	.75	.09	.41	⅝	1¾	33		
54208	#1 AWG	75 Navy, #2 Weld 150/24 = 60.5 kcmil	¼	2.13	1.28	.68	.11	.47	¼	⅝	37	GREEN	
256-30695-1233			⅝	2.69	1.62	.69	.13	.47	1½	1	37		
256-30695-1236			⅝	2.75	1.81	.68	.11	.47	⅝	1	37		
256-30695-329	1/0 AWG	175/24 = 70.6 kcmil, 133/.0223	¼	2.75	1.81	.75	.14	.52	⅝	¾	42	PINK	
54255			⅝	2.56	1.56	.75	.14	.52	⅝	⅞	42		
256-30695-1234			⅝	2.75	1.78	.75	.14	.52	⅞	1	42		
54209			⅝	2.88	1.93	.75	.13	.52	⅝	1	42		
256-30695-1265			⅝	3.50	2.57	.75	.14	.52	⅝	1¾	42		
256-30695-886	2/0 AWG	133/.0254	½	3.78	2.83	.75	.13	.52	½	1¾	42	BLACK	
256-30695-1175			¼	2.45	1.44	.83	.14	.57	¼	¾	45		
54261			⅝	2.70	1.63	.83	.14	.57	⅞	⅞	45		
256-30695-832	3/0 AWG	275/24 = 111 kcmil	⅝	2.88	1.81	.81	.14	.57	⅝	1	45	ORANGE	
54210			⅝	2.93	1.93	.83	.13	.57	⅝	1	45		
54260			½	3.83	2.81	.83	.14	.57	⅝	1¾	45		
54266	3/0 AWG	150 Navy, 2/0 Weld 325/24 = 131 kcmil	⅝	2.88	1.75	.94	.14	.63	⅞	1	50	ORANGE	
54211			⅝	2.94	1.81	.94	.14	.63	⅝	1	50		
54265			½	3.94	2.81	.94	.14	.63	½	1¾	50		

† Contact Technical Services for specific stranding listings

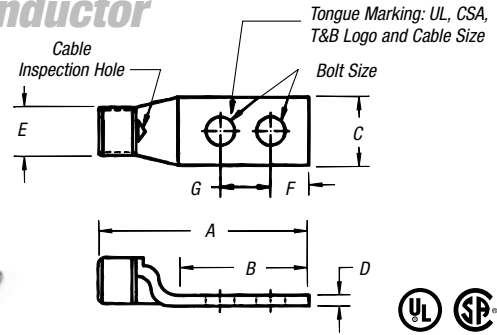
Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104 * Blind End

Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Compression Connectors for Copper Conductor

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

Material: High-Conductivity Wrought Copper
Finish: Electro Tin Plate



CAT. NO.	CODE	WIRE SIZE		DIMENSIONS (IN.)								DIE CODE	DIE COLOR
		FLEX CLASS	G, H, I, K, M†	BOLT SIZE	A	B	C	D	E	F	G		
54212			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 1/4	54	
256-30695-1247	4/0 AWG		450/24 = 182 kcmil	1/4	3.06	1.44	1.03	.16	.70	3/8	3/4	54	
256-30695-331			703/.0154	1/4	3.06	1.81	1.03	.14	.70	3/8	3/4	54	
256-30695-1261				5/16	3.18	1.93	1.03	.14	.70	3/8	1	54	
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 1/4	62	
256-30695-345			4/0 Weld	3/8	3.25	1.69	1.25	.15	.79	3/8	7/8	62	
256-30695-835			550/24 = 222 kcmil	3/8	4.25	2.80	1.25	.15	.79	3/8	1	62	
256-30695-452			133/.0399	3/8	3.13	1.88	1.25	.16	.79	3/8	7/8	62	
58265			259/.0286, 637/.018	1/2	3.94	2.81	.94	.14	.79	1/2	1 1/4	62	WHITE
54214		300 kcmil	300 Navy	3/8	3.45	1.93	1.25	.15	.85	3/8	1	66	
54280			262, 650/24, 250 Weld	1/2	4.45	3.00	1.25	.15	.85	1/2	1 1/4	66	
256-30695-332				1/4	3.40	1.81	1.36	.18	.93	3/8	3/4	71	
256-30695-1240	350 kcmil		350 Navy	5/16	4.18	2.63	1.36	.18	.93	3/8	1 1/4	71	
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 1/4	71	
54216		400 kcmil	400 Navy	3/8	3.93	1.93	1.41	.17	.96	3/8	1	76	
54283			313, 775/24, 300 Weld	3/8	3.88	1.93	1.41	.17	.96	3/8	1 1/16	76	
256-30695-439			400 Weld	3/8	4.35	2.25	1.61	.22	1.04	3/8	1	80	
58277			925/24 = 373 kcmil	1/2	5.06	3.00	1.61	.22	1.04	1/2	1 1/4	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	
54218				3/8	3.96	1.93	1.61	.22	1.10	3/8	1	87	
54286		500 kcmil	500 Navy	1/2	5.07	3.00	1.61	.22	1.10	1/2	1 1/4	87	BROWN
256-30695-188				1/2	4.06	2.31	1.63	.22	1.10	1/2	1 1/4	87	
54220		600 kcmil	450 Flex I, K	3/8	4.13	1.93	1.75	.24	1.20	3/8	1	94	
54289			1100/24 = 444 kcmil	1/2	5.23	3.00	1.75	.24	1.20	1/2	1 1/4	94	GREEN
256-30695-1406				3/8	4.05	2.11	1.78	.24	1.25	1/2	1	99	
256-30695-842				3/8	4.30	2.06	1.80	.28	1.25	1/2	1	99	
256-30695-898		700 kcmil		3/8	4.30	2.06	1.80	.28	1.25	1/2	1	99	
54291				1/2	5.18	3.00	1.84	.23	1.25	1/2	1 1/4	99	
58281			500 Flex, 535, 1325/24	1/2	5.23	3.00	1.80	.28	1.25	1/2	1 1/4	99	PINK
256-30695-237				3/8	5.10	2.80	1.94	.27	1.33	3/8	1	106	
54223		750 kcmil	600, 427 Str.	1/2	5.32	3.00	1.94	.27	1.33	1/2	1 1/4	106	
256-30695-1376				3/8	4.78	2.28	2.01	.27	1.38	7/16	1 1/8	107	
54224		800 kcmil	800 Navy	1/2	5.50	3.00	2.01	.27	1.38	1/2	1 1/4	107	
256-30695-694				3/8	4.65	2.06	2.18	.31	1.50	1/2	1	115	YELLOW
54226		900 kcmil	1925/24 = 777 kcmil	1/2	5.59	3.00	2.18	.31	1.50	1/2	1 1/4	115	
256-30695-846				3/8	4.60	2.06	2.12	.31	1.50	1/2	1	115	
256-30695-844				5/8	5.00	2.63	2.18	.31	1.50	5/16	1 1/2	115	
54228		1000 kcmil	1000 Navy	1/2	5.45	3.00	2.27	.30	1.55	1/2	1 1/4	125	

† Contact Technical Services for specific stranding listings

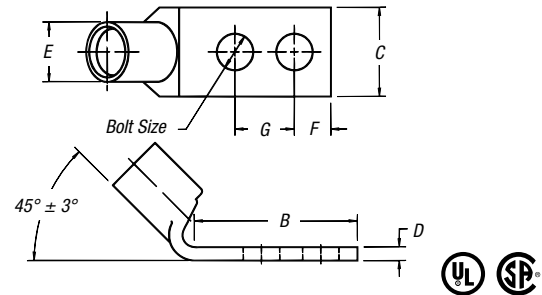
Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

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

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	CODE	WIRE SIZE		DIMENSIONS (IN.)						DIE CODE	DIE COLOR
		FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F	G		
56-31426-9	#14-10 AWG		#10	1.22	.37	.05	.200	¼	⅝	N/A	N/A
54204UF	#8 AWG #7 LS	23 Navy #8 Weld 37/24 = 14.9 kcmil	#10	1.18	.42	.08	.26	¼	⅝	21	RED
256-30695-1183UF		30 Navy, #6 Weld	#10	1.19	.44	.08	.30	⅜	⅝-¾	24	BLUE
54205UF	#6 AWG	61/24 = 24.6 kcmil	¼	1.28	.44	.08	.30	¼	⅝	24	
54205UF0416		133/.014, #5 Weld	¼	1.56	.43	.08	.30	¼	1	24	
54206UF	#4 AWG	40-50 Navy, #4 Weld #5, 91/24 = 36.7 kcmil 133/.0177, 49/.029	¼	1.28	.52	.10	.37	¼	⅝	29	GRAY
54207UF	#3 AWG	60 Navy, #3 Flex	¼	1.28	.59	.11	.41	¼	⅝	33	BROWN
256-30695-257UF	#2 AWG	125/24 = 50.4 kcmil 75 Navy, #2 Weld	⅝	1.81	.60	.11	.41	⅝	1	33	
54208UF	#1 AWG	150/24 = 60.5 kcmil 175/24 = 70.6 kcmil, 133/.0223	¼	1.28	.68	.11	.47	¼	⅝	37	GREEN
54209UF		100 Navy #1 Weld	⅝	1.93	.75	.13	.52	⅝	1	42	PINK
54209UF0412	1/0 AWG	225/24 = 90.8 kcmil 133/.0254	¼	1.55	.75	.13	.52	¼	¾	42	
54261UF		125 Navy, 1/0 Weld	⅝	1.63	.83	.14	.57	⅓	⅞	45	BLACK
54210UF	2/0 AWG	275/24 = 111 kcmil	⅝	1.93	.83	.13	.57	⅝	1	45	
54260UF		133/.0282	½	2.81	.83	.14	.57	⅝	1¼	45	
54266UF		150 Navy, 2/0 Weld	⅝	1.75	.94	.14	.63	⅓	1	50	ORANGE
54211UF	3/0 AWG	325/24 = 131 kcmil 133/.0316	⅝	1.81	.94	.14	.63	⅝	1	50	
54265UF		259/.0227 427/.0177	½	2.81	.94	.14	.63	½	1¼	50	
54212UF		200 Navy 3/0 Weld	⅝	1.93	1.03	.14	.70	⅝	1	54	PURPLE
54270UF	4/0 AWG	450/24 = 182 kcmil 703/.0154	½	3.00	1.03	.14	.70	½	1¼	54	
54213UF		250 Navy	⅝	1.93	1.13	.14	.77	⅝	1	62	YELLOW
54275UF	250 kcmil	250 Navy	½	2.81	1.13	.18	.77	½	1¼	62	
256-30695-399UF		4/0 Weld 550/24 = 222 kcmil	⅝	2.80	1.25	.15	.79	⅝	1	62	
58265UF		133/.0399, 259/.0286 637/.018	½	2.81	.94	.14	.79	½	1¼	62	

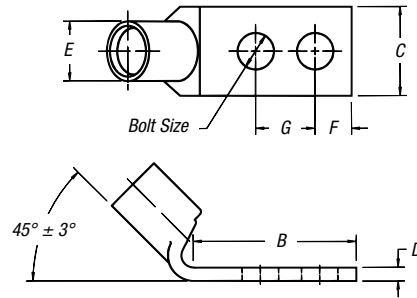
† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

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

Material: High-Conductivity Wrought Copper
Finish: Electro Tin Plate



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)							DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F	G			
54214UF	300 kcmil	262, 350/24, 250 Weld	3/8	1.93	1.25	.15	.85	3/8	1	66	WHITE	
54280UF		300 Navy	1/2	3.00	1.25	.15	.85	1/2	1 1/4	66		
54215UF	350 kcmil	350 Navy	3/8	1.93	1.36	.18	.93	3/8	1	71	RED	
54282UF			1/2	3.00	1.36	.18	.93	1/2	1 1/4	71		
54216UF	400 kcmil	400 Navy, 313	3/8	1.93	1.41	.17	.96	3/8	1	76	BLUE	
54283UF		775/24, 300 Weld	3/8	1.93	1.41	.17	.96	3/8	1 1/16	76		
58277UF		400 Weld 925/24 = 373 kcmil 259/.0393, 427/.0306	1/2	3.00	1.61	.22	1.04	1/2	1 1/4	80	N/A	
54218UF	500 kcmil	500 Navy	3/8	1.93	1.61	.22	1.10	3/8	1	87	BROWN	
54286UF			1/2	3.00	1.61	.22	1.10	1/2	1 1/4	87		
54220UF	600 kcmil	450 Flex I, K	3/8	1.93	1.75	.24	1.20	3/8	1	94	GREEN	
54289UF		1100/24 = 444 kcmil	1/2	3.00	1.75	.24	1.20	1/2	1 1/4	94		
54291UF	700 kcmil		1/2	3.00	1.84	.23	1.25	1/2	1 1/4	99	PINK	
58281UF		500 Flex	1/2	3.00	1.8	.28	1.25	1/2	1 1/4	99		
54223UF0616	750 kcmil	1325/24 535	3/8	2.80	1.94	.27	1.33	3/8	1	106	BLACK	
54223UF		600, 427 Str.	1/2	3.00	1.94	.27	1.33	1/2	1 1/4	106		
54224UF	800 kcmil	800 Navy	1/2	3.00	2.01	.27	1.38	1/2	1 1/4	106		
54226UF	900 kcmil	1925/24 = 777 kcmil	1/2	3.00	2.18	.31	1.50	1/2	1 1/4	115	YELLOW	
54228UF	1000 kcmil	1000 Navy	1/2	3.00	2.27	.30	1.55	1/2	1 1/4	125	N/A	

† Contact Technical Services for specific stranding listings

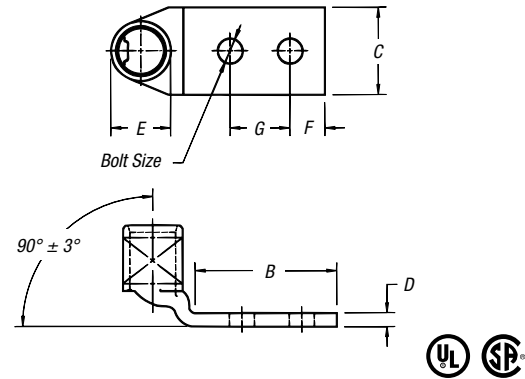
Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Note: Angled Lugs can be readily available as: 15°, 30°, 45°, 60°, and 90°

Compression 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			DIMENSIONS (IN.)						DIE CODE	DIE COLOR	
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F	G			
CA256-31426-141			#10	1.25	.37	.07	.20	7/32	5/8			
256-31426-6SPH	#14-10 AWG		#10	1.30	.37	.07	.20	7/32	5/8 - 3/4	ERG4002,	"C" NEST ERG4005	
256-31426-6			#10	1.30	.37	.07	.20	7/32	5/8			
256-31426-6S			#10	1.30	.37	.07	.20	7/32	5/8 - 3/4			
256-30695-1409			#10	1.19	.41	.06	.26	7/32	5/8 - 3/4	21		
54204UB	#8 AWG	23 Navy, #8 Weld	#10	1.25	.42	.08	.26	1/4	5/8	21	RED	
256-31426-33UB*	#7 LS	37/24 = 14.9 kcmil	#10	1.19	.41	.06	.26	7/32	5/8 - 3/4	21		
256-31426-33UBPH			#10	1.19	.41	.06	.26	7/32	5/8 - 3/4	21		
256-30695-1411			#10	1.19	.44	.08	.30	7/32	5/8 - 3/4	24	BLUE	
256-30695-1183B		30 Navy	#10	1.19	.44	.08	.30	7/32	5/8 - 3/4	24		
256-30695-1356	#6 AWG	#6 Weld	#10	1.19	.43	.08	.30	7/32	5/8	24		
54205UB		133/.014	1/4	1.28	.44	.08	.30	1/4	5/8	24		
256-30695-252UB		#5 Weld	1/4	1.56	.43	.08	.30	1/4	1	24		
54206UB	#4 AWG	40-50 Navy #4 Weld #5 91/24 = 36.7 kcmil 133/.0177, 49/.029	1/4	1.28	.52	.10	.37	1/4	5/8	29	GRAY	
54207UB	#3 AWG #2 AWG	60 Navy #3 Weld 125/24 = 50.4 kcmil	1/4	1.28	.59	.11	.41	1/4	5/8	33	BROWN	
54208UB	#1 AWG	75 Navy #2 Weld 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	3/8	1.93	.75	.13	.52	3/8	1	42	PINK	
54209UB0412		225/24 = 90.8 kcmil, 133/.0254 225/24 = 90.8 kcmil, 133/.0254	1/4	1.55	.75	.13	.52	1/4	3/4	42		
54261UB		125 Navy, 1/0 Weld	5/16	1.63	.83	.14	.57	1 1/32	7/8	45	BLACK	
54210UB	2/0 AWG	275/24 = 111 kcmil	3/8	1.93	.83	.13	.57	3/8	1	45		
54260UB		133/.0282	1/2	2.81	.83	.14	.57	3/8	1 1/4	45		
54266UB		150 Navy, 2/0 Weld	5/16	1.75	.94	.14	.63	1 1/32	1	50	ORANGE	
54211UB	3/0 AWG	325/24 = 131 kcmil	3/8	1.81	.94	.14	.63	3/8	1	50		
54265UB		133/.0316, 259/.0227, 427/.0177	1/2	2.81	.94	.14	.63	3/8	1 1/4	50		
54212UB		200 Navy, 3/0 Weld	3/8	1.93	1.03	.14	.70	3/8	1	54	PURPLE	
54270UB	4/0 AWG	450/24 = 182 kcmil, 703/.0154	1/2	3.00	1.03	.14	.70	1/2	1 1/4	54		
54213UB		250 Navy	3/8	1.93	1.13	.14	.77	3/8	1	62	YELLOW	
54275UB	250 kcmil	250 Navy	1/2	2.81	1.13	.18	.77	1/2	1 1/4	62		
256-30695-399UB		4/0 Weld, 550/24 = 222 kcmil	3/8	2.80	1.25	.15	.79	3/8	1	62		
58265UB		133/.0399, 259/.0286, 637/.018	1/2	2.81	.94	.14	.79	1/2	1 1/4	62		

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

* Blind End

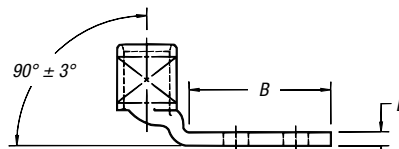
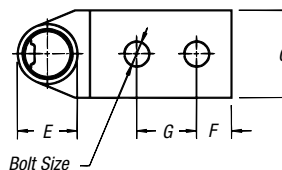
Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Compression Connectors for Copper Conductor

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

Material: High-Conductivity Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)							DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F	G			
54214UB	300 kcmil	262, 650/24, 250 Weld	¾	1.93	1.25	.15	.85	¾	1	66	WHITE	
54280UB		300 Navy	½	3.00	1.25	.15	.85	½	1¼	66		
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	1¼	71		
54216UB	400 kcmil	400 Navy	¾	1.93	1.41	.17	.96	¾	1	76	BLUE	
54283UB		313, 775/24, 300 Weld	¾	1.93	1.41	.17	.96	¾	1½	76		
58277UB		400 Weld, 925/24 = 373 kcmil 259/.0393, 427/.0306	½	3.00	1.61	.22	1.04	½	1¼	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	1¼	87		
54220UB	600 kcmil	1100/24 = 444 kcmil	¾	1.93	1.75	.24	1.20	¾	1	94	GREEN	
54289UB		450 Flex I, K	½	3.00	1.75	.24	1.20	½	1¼	94		
54291UB	700 kcmil		½	3.00	1.84	.23	1.25	½	1¼	99	PINK	
58281UB		500 Flex, 1325/24 = 535 kcmil	½	3.00	1.80	.28	1.25	½	1¼	99		
54223UB	750 kcmil	600, 427 Str.	½	3.00	1.94	.27	1.33	½	1¼	106	BLACK	
54224UB	800 kcmil	800 Navy	½	3.00	2.01	.27	1.38	½	1¼	106		
54226UB	900 kcmil	1925/24 = 777 kcmil	½	3.00	2.18	.31	1.50	½	1¼	115	YELLOW	
54228UB	1000 kcmil	1000 Navy	½	3.00	2.27	.30	1.55	½	1¼	125	N/A	

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

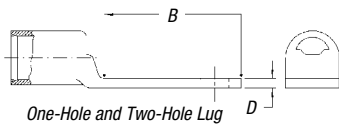
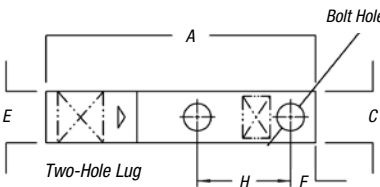
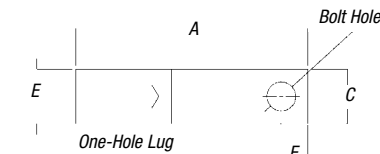
Ideal for confined-space terminations.

Narrow-Tongue Lugs — One- and Two-Hole, Standard Barrel, 600V Applications



Material: High-Conductivity Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	CODE	WIRE SIZE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	DIMENSIONS (IN.)								DIE CODE	DIE COLOR
					A	B	C	D	E	F	H			
One-Hole Narrow-Tongue Lugs														
54138NT	#4 AWG	91/24	#10	1.31	.56	.37	.10	.37	.25	—	29	GRAY		
54107NT	#2-3 AWG	125/24	¼	1.50	.65	.41	.07	.41	.25	—	33	BROWN		
54108NT	#1 AWG	150,175/24	¼	1.50	.65	.47	.11	.47	.25	—	37	GREEN		
54152NT	1/0 AWG	225/24	¼	1.60	.65	.52	.13	.52	.25	—	42	PINK		
54157NT	2/0 AWG	275/24	¼	1.60	.65	.57	.13	.57	.25	—	45	BLACK		
54162NT	3/0 AWG	325/24	¼	1.68	.65	.63	.13	.63	.25	—	50	ORANGE		
54167NT	4/0 AWG	450/24	¼	1.90	.65	.70	.14	.70	.25	—	54	PURPLE		
54172NT	250 kcmil	—	¼	2.00	.65	.77	.14	.77	.25	—	62	YELLOW		
54178NT04	300 kcmil	—	¼	2.33	.88	.85	.15	.85	.25	—	66	WHITE		
54115NT	350 kcmil	—	½	2.75	1.25	.93	.18	.93	.50	—	71	RED		
54115NT06	350 kcmil	—	¾	2.50	1.00	.93	.18	.93	.38	—	71	RED		
54118NT	500 kcmil	—	½	3.25	1.25	1.10	.22	1.10	.50	—	87	BROWN		
54123NT08	750 kcmil	—	½	3.48	1.25	1.33	.27	1.33	.50	—	106	BLACK		
54123NT	750 kcmil	—	¾	3.80	1.58	1.33	.27	1.33	.63	—	106	BLACK		
Two-Hole Narrow-Tongue Lugs														
54206NT0310	#4 AWG	91/24	#10	1.88	1.13	.37	.10	.37	.25	.63	29	GRAY		
54207NT	#2-3 AWG	125/24	¼	2.04	1.19	.41	.11	.41	.25	.63	33	BROWN		
54207NT0412	#2-3 AWG	125/24	¼	2.16	1.31	.41	.11	.41	.25	.75	33	BROWN		
54207NT0416	#2-3 AWG	125/24	¼	2.41	1.56	.41	.11	.41	.25	1.00	33	BROWN		
54208NT	#1 AWG	150,175/24	¼	2.04	1.19	.47	.11	.47	.25	.63	37	GREEN		
54208NT0516	#1 AWG	150,175/24	⅝	2.63	1.78	.47	.11	.47	.38	1.00	37	GREEN		
54255NT	1/0 AWG	225/24	⅝	2.61	1.66	.52	.14	.52	.38	.88	42	PINK		
54261NT	2/0 AWG	275/24	⅝	2.66	1.66	.57	.14	.57	.38	.88	45	BLACK		
54210NT	2/0 AWG	275/24	¾	2.82	1.82	.57	.14	.57	.38	1.00	45	BLACK		
54266NT	3/0 AWG	325/24	⅝	2.88	1.78	.63	.13	.63	.38	1.00	50	ORANGE		
54211NT	3/0 AWG	325/24	¾	2.92	1.82	.63	.13	.63	.38	1.00	50	ORANGE		
54212NT	4/0 AWG	450/24	¾	3.07	1.82	.70	.14	.70	.38	1.00	54	PURPLE		
54213NT	250 kcmil	—	¾	3.17	1.82	.77	.14	.77	.38	1.00	62	YELLOW		
54275NT	250 kcmil	—	¾	4.16	2.81	.77	.14	.77	.50	1.75	62	YELLOW		
54282NT	350 kcmil	—	½	4.36	2.81	.93	.18	.93	.50	1.75	71H	RED		
54218NT	500 kcmil	—	¾	4.57	2.57	1.10	.22	1.10	.38	1.75	87	BROWN		
54286NT	500 kcmil	—	½	4.81	2.81	1.10	.22	1.10	.50	1.75	87	BROWN		
54878BENTPH	600 kcmil	—	½	5.83	3.00	1.20	.24	1.20	.50	1.75	94	GREEN		
54223NT0628	750 kcmil	—	¾	4.79	2.57	1.33	.27	1.33	.38	1.75	106H	BLACK		
54223NT0616	750 kcmil	—	¾	5.00	2.02	1.66	.27	1.33	.38	1.00	106	BLACK		
54223NT	750 kcmil	—	½	5.04	2.81	1.33	.27	1.33	.50	1.75	106H	BLACK		
58884BENTPH	—	1600/24	½	6.16	3.00	1.33	.24	1.20	.50	1.75	106H	BLACK		
58825NT	900 kcmil	1925/24 = 777 kcmil	¾	5.00	2.13	1.66	.31	1.50	.50	1.00	115	YELLOW		
58825NT0828	900 kcmil	1925/24 = 777 kcmil	½	5.75	2.88	1.66	.31	1.50	.50	1.75	115	YELLOW		

CAT. NO. TYPE

5 4 2 1 2 N T *

— = To Order 45° and 90° Angle Lugs
 UF = 45°
 UB = 90°

Other options include silver plating (add SP to catalog number), blind end (add BE to catalog number) and peep holes (add PH to catalog number).

Catalog No. Example:

54108NTUB is a 90° angled one-hole narrow-tongue lug for #1 AWG.

* Special lugs may have other catalog number constructions. Please contact Technical Services.

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

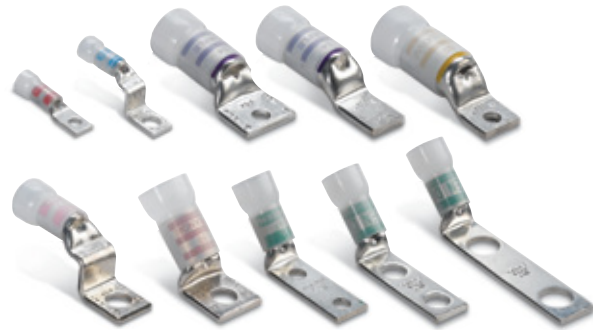
Compression Connectors for Copper Conductor

Reduce your installation time and labor costs!

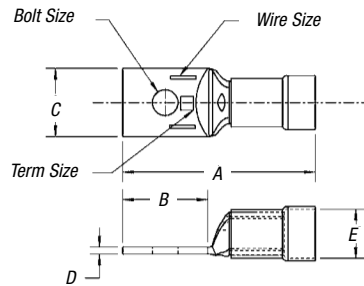


Insulated Lugs

Now you can have all of the benefits of Thomas & Betts' industry-leading Blackburn® lugs featuring the Color-Keyed® system — without the time-consuming job of insulating them after installation. These lugs come fitted with a translucent nylon sleeve that provides excellent dielectric strength, while still enabling easy viewing of the color-coding on the barrel. In addition to the standard catalog numbers listed here for one- and two-hole lugs, a variety of custom options makes this the broadest offering of insulated lugs available on the market!



- Translucent nylon insulator provides easy viewing of die code/color
- Use with #8 AWG to 250 kcmil copper conductors
- Available in one- and two-hole configurations with standard-length barrel
- Variety of options available — finish, tongue width and angle, bolt hole size/spacing and more
- Easy to install with standard Blackburn® compression tools TBM6S, 25000, 13642M or 13400 with adapter



Specifications

- Material — Lugs: Seamless copper tubing with electrotin plate finish
- Material — Insulators: Injection-molded nylon
- Temperature Rating: 105° C max.
- Voltage Rating: 600 volts max. (1,000 volts max. in signs and fixtures)
- Listings: UL® Listed, CSA Certified

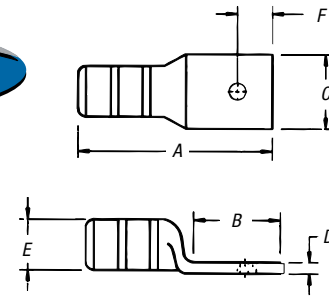


CAT. NO.	WIRE SIZE	BOLT SIZE	DIMENSIONS (IN.)					HOLE SPACING	DIE FOR TBM6S OR 25000 TOOL	DIE FOR 13642M TOOL
			A	B	C	D	E			
One-Hole Standard-Barrel Nylon-Insulated Lugs										
54104I	#8 AWG	#10	1.49	.50	.39	.08	.35	—	11821-CK	21707M-CK
54105I	#6 AWG	¼"	1.58	.53	.44	.07	.45	—	11822-CK	21708M-CK
54106I	#4 AWG	¼"	1.76	.60	.55	.09	.53	—	11823-CK	21709M-CK
54108I	#1 AWG	¼"	2.06	.65	.68	.11	.60	—	11824-CK	21710M-CK
54109I	1/0 AWG	⅜"	2.36	.93	.75	.13	.64	—	11825-CK	21711M-CK
54110I	2/0 AWG	⅜"	2.43	.93	.83	.13	.69	—	11826-CK	21712M-CK
54111I	3/0 AWG	⅜"	2.54	.93	.92	.13	.77	—	11827-CK	21713M-CK
54112I	4/0 AWG	⅜"	2.75	.93	1.03	.14	.80	—	11828-CK	21714M-CK
54113I	250 kcmil	½"	3.19	1.25	1.13	.14	.88	—	11829-CK	21715M-CK
Two-Hole Standard-Barrel Nylon-Insulated Lugs										
54204I	#8 AWG	#10	2.21	1.18	.42	.08	.35	.625	11821-CK	21707M-CK
54205I	#6 AWG	¼"	2.32	1.28	.44	.08	.45	.625	11822-CK	21708M-CK
54206I	#4 AWG	¼"	2.40	1.28	.52	.10	.53	.625	11823-CK	21709M-CK
54208I	#1 AWG	¼"	2.69	1.28	.68	.11	.60	.625	11824-CK	21710M-CK
54209I	1/0 AWG	⅜"	3.36	1.93	.75	.13	.64	1.000	11825-CK	21711M-CK
54210I	2/0 AWG	⅜"	3.43	1.93	.83	.13	.69	1.000	11826-CK	21712M-CK
54211I	3/0 AWG	⅜"	3.45	1.81	.94	.14	.77	1.000	11827-CK	21713M-CK
54212I	4/0 AWG	⅜"	3.75	1.93	1.03	.14	.80	1.000	11828-CK	21714M-CK
54213I	250 kcmil	½"	3.87	1.93	1.13	.14	.88	1.000	11829-CK	21715M-CK

Compression Connectors for Copper Conductor

One-Hole Lugs — Long Barrel 600V to 35kV

Material: High-Conductivity Wrought Copper
Finish: Electro Tin Plate



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)						DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	A	B	C	D	E	F		
54901BE	#14-10 AWG		¼	1.23	.56	.50	.05	.20	¼	ERG4002, ERG4005	"C" NEST
54929BE*	#8 AWG	23 Navy, #8 Flex	#10	1.65	.65	.42	.08	.26	¼	21	RED
54930BE*		37/24 = 14.9 kcmil	¼	1.65	.65	.42	.08	.26	¼	21	
54904BE*	#6 AWG	#6 Flex, 30 Navy, #5 Weld	#10	1.65	.65	.44	.08	.30	¼	24	BLUE
54905BE*			¼	1.65	.65	.44	.08	.30	¼	24	
54908BE*	#4 AWG	40-30 Navy, #4 Weld	#10	1.70	.65	.52	.10	.37	¼	29	GRAY
54906BE*		#5 91/24 = 36.7 kcmil	¼	1.70	.65	.52	.10	.37	¼	29	
54933BE*	#2-3 AWG	125/24 = 50.4 kcmil	#10	1.88	.65	.59	.11	.41	¼	33	BROWN
54942BE*		60 Navy, #3 Weld	⅝	2.03	.88	.59	.11	.41	⅜	33	
54945BE	#1 AWG	75 Navy, #2 Weld	#10	1.95	.65	.68	.11	.47	¼	37	GREEN
54947BE		150/24 = 60.5 kcmil	⅝	2.18	.88	.68	.11	.47	⅜	37	
54946BE	1/0 AWG	100 Navy	#10	1.95	.65	.75	.13	.52	¼	42	PINK
54949BE		#1 Weld	⅝	2.18	.88	.75	.13	.52	⅜	42	
54909BE		225/24 = 90.8 kcmil	⅜	2.23	.93	.75	.13	.52	⅜	42	
54950BE			½	2.55	1.25	.75	.13	.52	½	42	
54910BE	2/0 AWG	125 Navy, 1/0 Weld	⅜	2.28	.93	.83	.13	.57	⅜	45	BLACK
54951BE		275/24 = 111 kcmil	½	2.60	1.25	.83	.13	.57	½	45	
54965BE	3/0 AWG	325/24 = 131 kcmil, 150 Navy, 2/0 Weld	½	2.70	1.25	.92	.13	.63	½	50	ORANGE
256-30695-1252	4/0 AWG	200 Navy	¼	2.35	.65	1.03	.14	.70	¼	54	PURPLE
256-30695-1253		450/24 = 182 kcmil	⅜	2.95	1.25	1.03	.14	.70	⅜	54	
54970BE		3/0 Weld	½	2.95	1.25	1.03	.14	.70	½	54	
54913BE	250 kcmil	550/24 = 222 kcmil, 250 Navy, 4/0 Weld	½	3.15	1.25	1.13	.14	.77	½	62	YELLOW
54914BE	300 kcmil	300 Navy, 250 Weld, 262, 650/24	½	3.50	1.25	1.25	.15	.85	½	66	WHITE
54915BE	350 kcmil		½	3.68	1.25	1.36	.18	.93	½	71	RED
54916BE	400 kcmil	400 Navy, 300 Flex	½	3.75	1.25	1.41	.17	.96	½	76	BLUE
54917BE		775/24 = 313 kcmil, 350, 254 Str.	⅝	4.03	1.58	1.41	.17	.96	⅝	76	
54918BE	500 kcmil	925/24 = 373 kcmil	½	4.25	1.25	1.61	.22	1.10	½	87	BROWN
54919BE		400 Weld, 350, 3458 Str.	⅝	4.57	1.58	1.61	.22	1.10	⅝	87	
54921BE	600 kcmil	450 I, K	½	4.10	1.25	1.75	.24	1.20	½	94	GREEN
54920BE		1100/24 = 444 kcmil	⅝	4.39	1.58	1.75	.24	1.20	⅝	94	
54979BE	750 kcmil	1325/24 = 535 kcmil	½	4.40	1.25	1.80	.24	1.25	½	99	PINK
54922BE		1325/24 = 535 kcmil	½	4.40	1.25	1.94	.27	1.33	½	106	BLACK
54923BE		500 Weld	⅝	4.72	1.58	1.94	.27	1.33	⅝	106	
58984BE	800 kcmil	1600/24 = 646 kcmil	⅝	4.73	1.58	1.94	.27	1.33	⅝	106	YELLOW
58926BE	900 kcmil	1925/24 = 777 kcmil	⅝	5.23	1.58	2.17	.30	1.55	⅝	115	
54928BE	1000 kcmil		⅝	5.24	1.58	2.27	.30	1.55	⅝	125	N/A
256-30695-918			⅞	5.42	1.82	2.37	.30	1.55	⅞	125	

† Contact Technical Services for specific stranding listings

* UL® Listed for direct burial applications

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

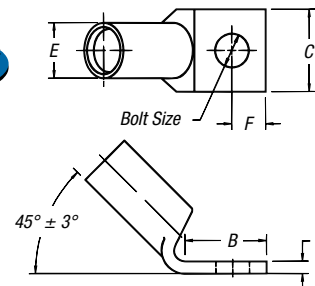
One-Hole Lugs — 45° Long Barrel 600V to 35kV

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



Peep Holes Available!
Add suffix **-PH**



CAT. NO.	CODE	WIRE SIZE			DIMENSIONS (IN.)					DIE CODE	DIE COLOR
		FLEX CLASS	G, H, I, K, M [†]	BOLT SIZE	B	C	D	E	F		
54929BEUF	#8 AWG	23 Navy, #8 Flex		#10	.65	.42	.08	.26	¼	21	RED
54930BEUF		37/24 = 14.9 kcmil		¼	.65	.42	.08	.26	¼	21	RED
54904BEUF	#6 AWG	61/24 = 24.6 kcmil		#10	.65	.44	.08	.30	¼	24	BLUE
54905BEUF		#6 Flex, 30 Navy		¼	.65	.44	.08	.30	¼	24	BLUE
54908BEUF	#4 AWG	40–50 Navy, #4 Weld		#10	.65	.52	.10	.37	¼	29	GRAY
54906BEUF		#5, 91/24 = 36.7 kcmil		¼	.65	.52	.10	.37	¼	29	GRAY
54933BEUF	#2–3 AWG	125/24 = 50.4 kcmil		#10	.65	.59	.11	.41	¼	33	BROWN
54942BEUF		60 Navy, #3 Weld		⅝	.88	.59	.11	.41	⅜	33	BROWN
54945BEUF	#1 AWG	75 Navy, #2 Weld		#10	.65	.68	.11	.47	¼	37	GREEN
54947BEUF		150/24 = 60.5 kcmil		⅝	.88	.68	.11	.47	⅜	37	GREEN
54946BEUF	1/0 AWG	100 Navy		#10	.65	.75	.13	.52	¼	42	PINK
54949BEUF		225/24 = 90.8 kcmil		⅝	.88	.75	.13	.52	⅜	42	PINK
54909BEUF		#1 Weld		⅝	.93	.75	.13	.52	⅜	42	PINK
54950BEUF	2/0 AWG	125 Navy, 1/0 Weld		⅝	.93	.83	.13	.57	⅜	45	BLACK
54951BEUF		275/24 = 111 kcmil		½	1.25	.83	.13	.57	½	45	BLACK
54965BEUF	3/0 AWG	325/24 = 131 kcmil, 150 Navy, 2/0 Weld		½	1.25	.92	.13	.63	½	50	ORANGE
54970BEUF04	4/0 AWG	200 Navy		¼	1.00	1.03	.14	.70	¼	54	PURPLE
54970BEUF06		450/24 = 182 kcmil		⅝	1.13	1.03	.14	.70	⅜	54	PURPLE
54970BEUF		3/0 Weld		½	1.25	1.03	.14	.70	½	54	PURPLE
54913BEUF	250 kcmil	550/24 = 222 kcmil, 250 Navy, 4/0 Weld		½	1.25	1.13	.14	.77	½	62	YELLOW
54914BEUF	300 kcmil	300 Navy, 250 Weld, 262, 650/24		½	1.25	1.25	.15	.85	½	66	WHITE
54915BEUF	350 kcmil			½	1.25	1.36	.18	.93	½	71	RED
54916BEUF	400 kcmil	400 Navy, 300 Weld		½	1.25	1.41	.17	.96	½	76	BLUE
54917BEUF		775/24 = 313 kcmil, 350, 259 Str.		⅝	1.58	1.41	.17	.96	⅝	76	BLUE
54918BEUF	500 kcmil	925/24 = 373 kcmil		½	1.25	1.61	.22	1.10	½	87	BROWN
54919BEUF		400 Weld, 350, 3458 Str.		⅝	1.58	1.61	.22	1.10	⅝	87	BROWN
54921BEUF	600 kcmil	450 I, K		½	1.25	1.75	.24	1.20	½	94	GREEN
54920BEUF		1100/24 = 444 kcmil		⅝	1.58	1.75	.24	1.20	⅝	94	GREEN
54922BEUF	750 kcmil	1325/24 = 535 kcmil		½	1.25	1.94	.27	1.33	½	106	BLACK
54923BEUF		500 Weld		⅝	1.58	1.94	.27	1.33	⅝	106	BLACK
58984BEUF	900 kcmil	1600/24 = 646 kcmil		⅝	1.58	1.94	.27	1.33	⅝	106	YELLOW
58926BEUF		1925/24 = 777 kcmil		⅝	1.58	2.17	.31	1.50	⅝	115	YELLOW
54928BEUF	1000 kcmil			⅝	1.58	2.27	.30	1.55	⅝	125	N/A
54928BEUF12				⅞	1.83	2.37	.30	1.55	⅞	125	N/A

[†] Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

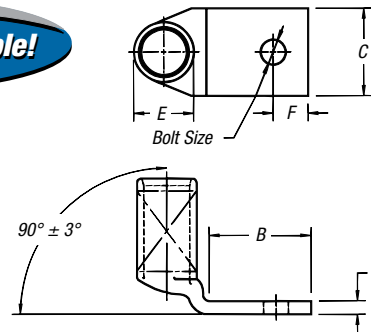
One-Hole Lugs — 90° Long Barrel 600V to 35kV

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



Peep Holes Available!
Add suffix -PH



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)					DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M ¹	BOLT SIZE	B	C	D	E	F		
54929BEUB	#8 AWG	23 Navy, #8 Flex	#10	.65	.42	.08	.26	¼	21	RED
54930BEUB		37/24 = 14.9 kcmil	¼	.65	.42	.08	.26	¼	21	RED
54904BEUB	#6 AWG	61/24 = 24.6 kcmil	#10	.65	.44	.08	.30	¼	24	BLUE
54905BEUB		#6 Flex, 30 Navy	¼	.65	.44	.08	.30	¼	24	BLUE
54908BEUB	#4 AWG	40–50 Navy, #4 Weld	#10	.65	.52	.10	.37	¼	29	GRAY
54906BEUB		#5, 91/24 = 36.7 kcmil	¼	.65	.52	.10	.37	¼	29	GRAY
54933BEUB	#2–3 AWG	125/24 = 50.4 kcmil	#10	.65	.59	.11	.41	¼	33	BROWN
54942BEUB		60 Navy, #3 Weld	⅝	.88	.59	.11	.41	⅜	33	BROWN
54945BEUB	#1 AWG	75 Navy, #2 Weld	#10	.65	.68	.11	.47	¼	37	GREEN
54947BEUB		150/24 = 60.5 kcmil	⅝	.88	.68	.11	.47	⅜	37	GREEN
54946BEUB	1/0 AWG	100 Navy	#10	.65	.75	.13	.52	¼	42	PINK
54949BEUB		225/24 = 90.8 kcmil	⅝	.88	.75	.13	.52	⅜	42	
54909BEUB		#1 Weld	⅝	.93	.75	.13	.52	⅜	42	
54950BEUB	2/0 AWG	125 Navy, 1/0 Weld	⅝	.93	.83	.13	.57	⅜	45	BLACK
54951BEUB		275/24 = 111 kcmil	½	1.25	.83	.13	.57	½	45	BLACK
54965BEUB	3/0 AWG	325/24 = 131 kcmil, 150 Navy, 2/0 Weld	½	1.25	.92	.13	.63	½	50	ORANGE
54970BEUB04	4/0 AWG	200 Navy	¼	1.00	1.03	.14	.70	¼	54	PURPLE
54970BEUB06		450/24 = 182 kcmil	⅝	1.13	1.03	.14	.70	⅜	54	
54970BEUB		3/0 Weld	½	1.25	1.03	.14	.70	½	54	
54913BEUB	250 kcmil	550/24 = 222 kcmil, 250 Navy, 4/0 Weld	½	1.25	1.13	.14	.77	½	62	YELLOW
54914BEUB	300 kcmil	300 Navy, 250 Weld, 262, 650/24	½	1.25	1.25	.15	.85	½	66	WHITE
54915BEUB	350 kcmil		½	1.25	1.36	.18	.93	½	71	RED
54916BEUB	400 kcmil	400 Navy, 300 Weld	½	1.25	1.41	.17	.96	½	76	BLUE
54917BEUB		775/24 = 313 kcmil, 350, 259 Str.	⅝	1.58	1.41	.17	.96	⅝	76	BLUE
54918BEUB	500 kcmil	925/24 = 373 kcmil	½	1.25	1.61	.22	1.10	½	87	BROWN
54919BEUB		400 Weld, 350, 3458 Str.	⅝	1.58	1.61	.22	1.10	⅝	87	
54921BEUB	600 kcmil	450 I, K	½	1.25	1.75	.24	1.20	½	94	GREEN
54920BEUB		1100/24 = 444 kcmil	⅝	1.58	1.75	.24	1.20	⅝	94	
54922BEUB	750 kcmil	1325/24 = 535 kcmil	½	1.25	1.94	.27	1.33	½	106	BLACK
54923BEUB		500 Weld	⅝	1.58	1.94	.27	1.33	⅝	106	
58984BEUB	900 kcmil	1600/24 = 646 kcmil	⅝	1.58	1.94	.27	1.33	⅝	106	YELLOW
58926BEUB		1925/24 = 777 kcmil	⅝	1.58	2.17	.31	1.50	⅝	115	
54928BEUB	1000 kcmil		⅝	1.58	2.27	.30	1.55	⅝	125	N/A
54928BEUB12			⅝	1.83	2.37	.30	1.55	⅝	125	

¹ Contact Technical Services for specific stranding listings

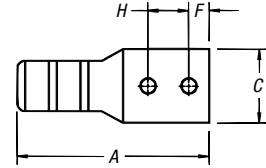
Tooling: pp. F-80–F-100 Die Selector Chart: pp. F-101–F-104

Compression Connectors for Copper Conductor

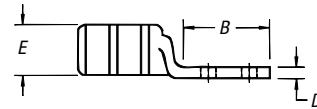
Two-Hole Lugs — Long Barrel 600V to 35kV



Peep Holes Available!
Add suffix **-PH**



Material: High-Conductivity
Wrought Copper
Finish: Electro Tin Plate



CAT. NO.	WIRE SIZE				DIMENSIONS (IN.)							DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M ¹	BOLT SIZE	A	B	C	D	E	F	H			
54801BE			¼	1.86	1.19	.50	.05	.20	¼	⅝	ERG4002, ERG4005	"C" NEST	
256-31426-3			#10	2.00	1.25	.37	.07	.20	¼	⅝			
256-31426-3SPH	#14-10 AWG		#10	2.00	1.25	.37	.07	.20	⅜	⅝-¾			
256-30695-1298			¼	1.89	1.22	.50	.05	.20	¼	⅝			
256-30695-1730			¼	1.98	1.31	.50	.05	.20	¼	⅝-¾	21	RED	
54850BE*		37/24 = 14.9 kcmil	¼	2.19	1.89	.42	.07	.26	¼	⅝			
54851BE*	#8 AWG	#8 Weld	¼	2.31	1.29	.47	.06	.26	¼	¾			
256-30695-1157		23 Navy	⅜	3.00	2.10	.56	.06	.26	⅝	1			
54852BE*			¼	2.28	1.28	.44	.08	.30	¼	⅝	24	BLUE	
256-30695-1014		30 Navy	¼	2.63	1.63	.43	.08	.30	¼	1			
256-30695-1225*	#6 AWG	61/24 = 24.6 kcmil	¼	2.43	1.43	.43	.08	.30	¼	¾			
256-30695-1158*		#6 Weld	⅜	2.93	1.93	.59	.06	.30	⅝	1			
256-30695-868*		#5 Weld	½	4.18	3.00	.88	.11	.30	½	1¾	24	GRAY	
54854BE*			¼	2.31	1.19	.52	.10	.37	¼	⅝			
256-30695-1246*			¼	2.31	1.31	.56	.09	.37	¼	¾			
256-30695-1015	#4 AWG	40-50 Navy	¼	2.88	1.88	.58	.09	.37	⅝	1			
256-30695-1337		#5, 91/24 = 36.7 kcmil	⅜	2.75	1.75	.56	.10	.37	1½/2	1	29	BROWN	
256-30695-1159*		#4 Weld	⅜	3.13	1.98	.59	.09	.37	⅝	1			
256-30695-733*			½	4.18	3.00	.88	.09	.37	½	1¾			
256-30695-1016			¼	3.06	1.88	.67	.09	.41	⅝	1			
54855BE*			¼	2.43	1.28	.59	.11	.41	¼	⅝	33	GREEN	
256-30695-1300*			¼	2.63	1.35	.68	.11	.41	¼	¾			
54856BE*	#2-3 AWG	60 Navy	⅜	2.78	1.63	.59	.11	.41	⅝	¾			
54810BE		#3 Weld	⅜	3.80	2.57	.59	.11	.41	⅝	1¾			
256-30695-1160*		125/24 = 50.4 kcmil	⅜	3.08	1.94	.59	.11	.41	⅝	1	33	PINK	
256-30695-869			½	4.02	2.88	.75	.09	.41	⅝	1¾			
54811BE*			½	4.28	3.00	.88	.11	.41	½	1¾			
54809BE			¼	2.88	1.19	.67	.11	.47	¼	⅝			
54812BE		75 Navy	¼	2.75	1.40	.67	.11	.47	¼	¾	37	GREEN	
54858BE	#1 AWG	150/24 = 60.5 kcmil	⅜	2.97	1.63	.67	.11	.47	⅝	⅞			
256-30695-1161		175/24 = 70.6 kcmil,	⅜	3.30	1.98	.67	.11	.47	⅝	1			
54857BE		#2 Weld	½	4.43	3.00	.88	.11	.47	½	1¾			
256-30695-1018			¼	3.63	1.88	.75	.13	.52	⅝	1	42	PINK	
256-30695-1018P			¼	3.63	1.88	.75	.13	.52	⅝	1			
54859BE			¼	2.63	1.19	.75	.13	.52	¼	⅝			
54813BE	#1 AWG	100 Navy	¼	2.71	1.38	.75	.13	.52	¼	¾			
54860BE		#1 Weld	⅜	2.97	1.63	.75	.13	.52	⅝	⅞	42	PINK	
256-30695-1162P		225/24 = 90.8 kcmil	⅜	3.25	1.98	.75	.13	.52	⅝	1			
256-30695-1162			⅜	3.23	1.93	.75	.13	.52	⅝	1			
256-30695-593*			½	4.33	3.00	.75	.13	.52	⅝	1¾			

¹ Contact Technical Services for specific stranding listings

* UL® Listed for direct-burial applications

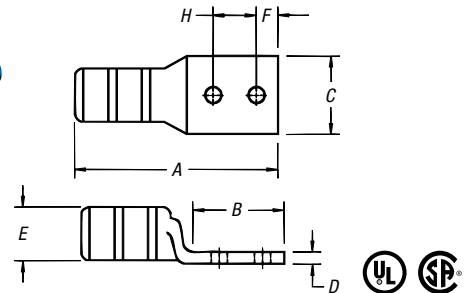
Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

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



Peep Holes Available!
Add suffix **-PH**



Material: High-Conductivity
Wrought Copper
Finish: Electro Tin Plate

CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)								DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M [†]	BOLT SIZE	A	B	C	D	E	F	H			
54814BE			¼	2.62	1.25	.83	.13	.57	¼	¾	45	BLACK	
256-30695-1299		125 Navy	¼	2.69	1.31	.81	.13	.57	¼	¾	45		
256-30695-1116	2/0 AWG	275/24 = 111 kcmil	¾	3.19	1.81	.83	.13	.57	¾	1	45		
256-30695-1116P		1/0 Weld	¾	3.19	1.81	.83	.13	.57	¾	1	45		
54862BE*			½	4.20	2.81	.83	.13	.57	½	1¼	45	ORANGE	
54815BE		2/0 Weld	¼	2.89	1.45	.92	.13	.63	¼	¾	50		
54816BE	3/0 AWG	325/24 = 131 kcmil	¾	3.25	1.63	.92	.13	.63	¾	1	50		
54864BE		150 Navy	½	4.48	3.00	.94	.13	.63	½	1¼	50		
54817BE			¼	3.15	1.38	1.03	.14	.70	¼	¾	54	PURPLE	
54818BE		200 Navy	¾	4.38	2.63	1.03	.14	.70	¾	1¼	54		
256-30695-1117	4/0 AWG	450/24 = 182 kcmil	¾	3.35	1.81	1.03	.14	.70	¾	1	54		
256-30695-1117P		3/0 Weld	¾	3.50	1.88	1.03	.14	.70	¾	1	54		
54866BE*			½	4.70	3.00	1.03	.14	.70	½	1¼	54	YELLOW	
256-30695-1245		250 Navy	¾	3.83	1.93	1.13	.14	.77	¾	1	62		
256-30695-1245P	250 kcmil	550/24 = 222 kcmil,	¾	3.83	1.93	1.13	.14	.77	¾	1	62		
54868BE*		4/0 Weld	½	4.92	3.00	1.13	.14	.77	½	1¼	62		
54819BE		300 Navy	¾	5.04	2.80	1.25	.15	.85	¾	1	66	WHITE	
54870BE	300 kcmil	250 Weld, 262, 650/24	½	5.23	3.00	1.25	.15	.85	½	1¼	66		
54820BE			¼	4.29	1.93	1.36	.18	.93	¼	¾	71	RED	
256-30695-1118		400 Navy	¾	4.33	1.93	1.36	.18	.93	¾	1	71		
256-30695-1118P	350 kcmil		¾	4.33	1.93	1.36	.18	.93	¾	1	71		
54872BE			½	5.40	3.00	1.36	.18	.93	½	1¼	71		
54822BE		400 Navy	¼	4.38	1.93	1.41	.17	.96	¼	¾	76	BLUE	
54821BE	400 kcmil	775/24 = 313 kcmil	¾	4.43	1.93	1.41	.17	.96	¾	1	76		
54874BE		300 Flex, 350, 259 Str.	½	5.51	3.00	1.41	.17	.96	½	1¼	76		
54823BE			¼	4.93	1.94	1.61	.22	1.10	¼	¾	87	BROWN	
256-30695-1119		400 Weld, G, H, I	¾	5.00	1.93	1.61	.22	1.10	¾	1	87		
256-30695-1119P	500 kcmil	925/24 = 373 kcmil	¾	5.00	1.93	1.61	.22	1.10	¾	1	87		
54876BE		350, K	½	6.00	3.00	1.61	.22	1.10	½	1¼	87		
54824BE		450, I, K	¾	5.70	2.80	1.75	.24	1.20	¾	1	94	GREEN	
54878BE	600 kcmil	1100/24 = 444 kcmil	½	5.83	3.00	1.75	.24	1.20	½	1¼	94		
54879BE	700 kcmil	1325/24 = 535 kcmil	½	5.83	3.00	1.80	.24	1.25	½	1¼	99	PINK	
256-30695-1222			¾	5.25	2.06	1.94	.27	1.33	½	1	106	BLACK	
256-30695-1222P	750 kcmil	500, G, H, I, K	¾	5.25	2.06	1.94	.27	1.33	½	1	106		
54880BE		1325/24 = 535 kcmil	½	6.20	3.00	1.94	.27	1.33	½	1¼	106		
58884BE		1600/24 = 646 kcmil	½	6.16	3.00	1.94	.27	1.33	½	1¼	106	YELLOW	
58826BE	900 kcmil	1925/24 = 777 kcmil	½	6.74	3.00	2.18	.31	1.50	½	1¼	115		
54826BE			¾	6.49	2.80	2.27	.30	1.55	¾	1	125	N/A	
54882BE	1000 kcmil	1000 Navy	½	6.66	3.00	2.27	.30	1.55	¾	1¼	125		
54888BE	1250 kcmil	929, 2300/24	½	7.88	3.00	2.42	.35	1.67	¾	1¼	140		

[†] Contact Technical Services for specific stranding listings

* UL® Listed for direct-burial applications

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

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Technical Services
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Thomas & Betts

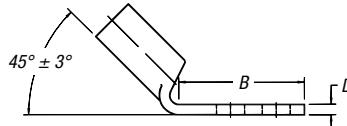
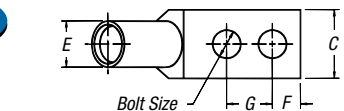
Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Compression Connectors for Copper Conductor

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

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	CODE	WIRE SIZE		DIMENSIONS (IN.)							DIE CODE	DIE COLOR	
		FLEX CLASS	G, H, I, K, M*	BOLT SIZE	B	C	D	E	F	G			
256-31426-3SPHUF				#10	1.25	.37	.07	.20	7/32	5/8 - 3/4		ERG4002, ERG4005	"C" NEST
256-30695-1298UF	#14-10 AWG			1/4	1.22	.50	.05	.20	1/4	5/8			
256-30695-1055UF				1/4	1.31	.50	.13	.36	1/4	5/8 - 3/4			
54850BEUF		37/24 = 14.9 kcmil		1/4	1.89	.42	.07	.26	1/4	5/8	21	21	RED
54851BEUF	#8 AWG	#8 Weld		1/4	1.29	.47	.06	.26	1/4	3/4	21		
54851BEUF0612		23 Navy		3/8	1.42	.47	.06	.26	3/8	3/4	21		
54852BEUF		30 Navy		1/4	1.28	.44	.08	.30	1/4	5/8	24	24	BLUE
54852BEUF0416		61/24 = 24.6 kcmil		1/4	1.63	.43	.08	.30	1/4	1	24		
54852BEUF0412	#6 AWG	#6 Weld		1/4	1.43	.43	.08	.30	1/4	3/4	24		
54852BEUF0616		#5 Weld		3/8	1.93	.59	.06	.30	3/8	1	24		
54852BEUF0828				1/2	3.00	.88	.11	.30	1/2	1 1/4	24		
54854BEUF				1/4	1.19	.52	.10	.37	1/4	5/8	29	29	GRAY
54854BEUF0412		40-50 Navy		1/4	1.31	.56	.09	.37	1/4	3/4	29		
54854BEUF0416	#4 AWG	#5, 91/24 = 36.7 kcmil		1/4	1.88	.58	.09	.37	3/8	1	29		
54854BEUF0516		#4 Weld		5/16	1.75	.56	.10	.37	1/2	1	29		
54854BEUF0616				3/8	1.98	.59	.09	.37	3/8	1	29		
54854BEUF0828				1/2	3.00	.88	.09	.37	1/2	1 1/4	29		
54855BEUF0416				1/4	1.88	.67	.09	.41	3/8	1	33	33	BROWN
54855BEUF				1/4	1.28	.59	.11	.41	1/4	5/8	33		
54855BEUF0412		60 Navy		1/4	1.35	.68	.11	.41	1/4	3/4	33		
54856BEUF	#2-3 AWG	#3 Weld		5/16	1.63	.59	.11	.41	3/8	3/4	33		
54810BEUF		125/24 = 50.4 kcmil		3/8	2.57	.59	.11	.41	3/8	1 1/4	33		
54810BEUF0616				3/8	1.94	.59	.11	.41	3/8	1	33		
54811BEUF				1/2	3.00	.88	.11	.41	1/2	1 1/4	33		
54809BEUF				1/4	1.19	.67	.11	.47	1/4	5/8	37	37	GREEN
54812BEUF		75 Navy		1/4	1.40	.67	.11	.47	1/4	3/4	37		
54858BEUF	#1 AWG	150/24 = 60.5 kcmil		5/16	1.63	.67	.11	.47	3/8	7/8	37		
54857BEUF0616		175/24 = 70.6 kcmil, #2 Weld		3/8	1.98	.67	.11	.47	3/8	1	37		
54857BEUF				1/2	3.00	.88	.11	.47	1/2	1 1/4	37		
54859BEUF0416				1/4	1.88	.75	.13	.52	3/8	1	42	42	PINK
54859BEUF0416PH				1/4	1.88	.75	.13	.52	3/8	1	42		
54859BEUF		100 Navy		1/4	1.19	.75	.13	.52	1/4	5/8	42		
54813BEUF	1/0 AWG	#1 Weld		1/4	1.38	.75	.13	.52	1/4	3/4	42		
54860BEUF		225/24 = 90.8 kcmil		5/16	1.63	.75	.13	.52	3/8	7/8	42		
54860BEUF0616				3/8	1.98	.75	.13	.52	3/8	1	42		
54860BEUF0616PH				3/8	1.93	.75	.13	.52	3/8	1	42		
54860BEUF0828				1/2	3.00	.75	.13	.52	3/8	1 1/4	42		
54814BEUF				1/4	1.25	.83	.13	.57	1/4	5/8	45	45	BLACK
54814BEUF0412		125 Navy		1/4	1.31	.81	.13	.57	1/4	3/4	45		
54862BEUF0616	2/0 AWG	275/24 = 111 kcmil		3/8	1.81	.83	.13	.57	3/8	1	45		
54862BEUF0616PH		1/0 Weld		3/8	1.81	.83	.13	.57	3/8	1	45		
54862BEUF				1/2	2.81	.83	.13	.57	1/2	1 1/4	45		

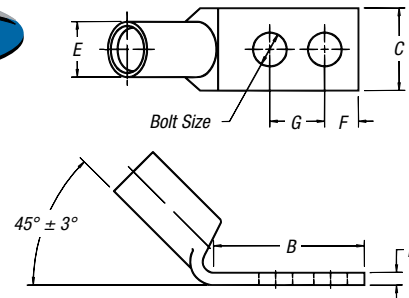
* Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

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

Material: High-Conductivity
Wrought Copper
Finish: Electro Tin Plate



CAT. NO.	WIRE SIZE				DIMENSIONS (IN.)						DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F	G			
54815BEUF		2/0 Weld	¼	1.45	.92	.13	.63	¼	¾	50	ORANGE	
54816BEUF	3/0 AWG	325/24 = 131 kcmil	¾	1.63	.92	.13	.63	¾	1	50		
54864BEUF		150 Navy	½	3.00	.94	.13	.63	½	1¼	50		
54817BEUF			¼	1.38	1.03	.14	.70	¼	¾	54	PURPLE	
54818BEUF		200 Navy	¾	2.63	1.03	.14	.70	¾	1¼	54		
54818BEUF0616	4/0 AWG	450/24 = 182 kcmil	¾	1.81	1.03	.14	.70	¾	1	54		
54818BEUF0616PH		3/0 Weld	¾	1.88	1.03	.14	.70	¾	1	54	YELLOW	
54866BEUF			½	3.00	1.03	.14	.70	½	1¼	54		
54868BEUF0616		250 Navy	¾	1.93	1.13	.14	.77	¾	1	62		
54868BEUF0616PH	250 kcmil	550/24 = 222 kcmil	¾	1.93	1.13	.14	.77	¾	1	62	WHITE	
54868BEUF		4/0 Weld	½	3.00	1.13	.14	.77	½	1¼	62		
54819BEUF		300 Navy	¾	2.80	1.25	.15	.85	¾	1	66		
54870BEUF	300 kcmil	250 Weld, 262, 650/24	½	3.00	1.25	.15	.85	½	1¼	66	RED	
54820BEUF			¼	1.93	1.36	.18	.93	¼	¾	71		
54872BEUF0616			¾	1.93	1.36	.18	.93	¾	1	71		
54872BEUF0616PH	350 kcmil		¾	1.93	1.36	.18	.93	¾	1	71	BLUE	
54872BEUF			½	3.00	1.36	.18	.93	½	1¼	71		
54822BEUF		400 Navy	¼	1.93	1.41	.17	.96	¼	¾	76		
54821BEUF	400 kcmil	775/24 = 313 kcmil	¾	1.93	1.41	.17	.96	¾	1	76	BROWN	
54874BEUF			½	3.00	1.41	.17	.96	½	1¼	76		
54823BEUF			¼	1.94	1.61	.22	1.10	¼	¾	87		
54876BEUF0616		400 Weld, G, H, I	¾	1.93	1.61	.22	1.10	¾	1	87	GREEN	
54876BEUF0616PH	500 kcmil	925/24 = 373 kcmil	¾	1.93	1.61	.22	1.10	¾	1	87		
54876BEUF		350, K	½	3.00	1.61	.22	1.10	½	1¼	87		
54824BEUF		450 Weld, I, K	¾	2.80	1.75	.24	1.20	¾	1	94	BLACK	
54878BEUF	600 kcmil	1100/24 = 444 kcmil	½	3.00	1.75	.24	1.20	½	1¼	94		
54880BEUF0616			¾	2.06	1.94	.27	1.33	½	1	106		
54880BEUF0616PH	750 kcmil	500, G, H, I, K	¾	2.06	1.94	.27	1.33	½	1	106	YELLOW	
54880BEUF		1325/24 = 535 kcmil	½	3.00	1.94	.27	1.33	½	1¼	106		
58884BEUF		1600/24 = 646 kcmil	½	3.00	1.94	.27	1.33	½	1¼	106		
58826BEUF	900 kcmil	1925/24 = 777 kcmil	½	3.00	2.18	.31	1.50	½	1¼	115	N/A	
54826BEUF			¾	2.80	2.27	.30	1.55	¾	1	125		
54882BEUF	1000 kcmil	1000 Navy	½	3.00	2.27	.30	1.55	½	1¼	125		

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

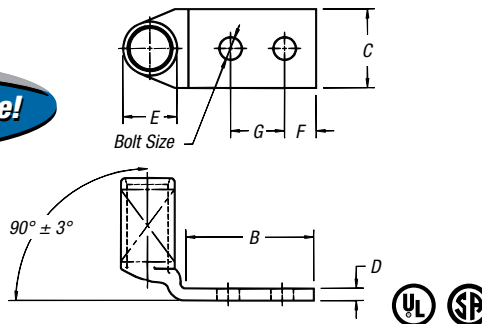
Compression Connectors for Copper Conductor

Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

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



Peep Holes Available!
Add suffix **-PH**



Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate

CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)						DIE CODE	DIE COLOR	
	CODE	FLEX CLASS G, H, I, K, M ¹	BOLT SIZE	B	C	D	E	F	G			
56-31426-3SPHUB			#10	1.25	.37	.07	.20	7/32	5/8-3/4			
256-30695-1298UB	#14-10 AWG		1/4	1.22	.50	.05	.20	1/4	5/8	ERG4002, ERG4005		"C" NEST
256-30695-1055UB			1/4	1.31	.50	.13	.36	1/4	5/8-3/4			
54850BEUB		37/24 = 14.9 kcmil	1/4	1.89	.42	.07	.26	1/4	13/16	21		RED
54851BEUB	#8 AWG	#8 Weld	1/4	1.29	.47	.06	.26	1/4	3/4	21		
54851BEUB0616		23 Navy	3/8	2.10	.56	.06	.26	3/8	1	21		
54852BEUB			1/4	1.28	.44	.08	.30	1/4	5/8	24		BLUE
256306951014B		30 Navy	1/4	1.63	.43	.08	.30	1/4	1	24		
54852BEUB0412	#6 AWG	61/24 = 24.6 kcmil	1/4	1.43	.43	.08	.30	1/4	3/4	24		
54852BEUB0616		#6 Weld	3/8	1.93	.59	.06	.30	3/8	1	24		
54852BEUB0828			1/2	3.00	.88	.11	.30	1/2	1 1/4	24		
54854BEUB			1/4	1.19	.52	.10	.37	1/4	5/8	29		GRAY
54854BEUB0412		40-50 Navy	1/4	1.31	.56	.09	.37	1/4	3/4	29		
54854BEUB0416	#4 AWG	#5, 91/24 = 36.7 kcmil	1/4	1.88	.58	.09	.37	3/8	1	29		
54854BEUB0516		#4 Weld	5/16	1.75	.56	.10	.37	1 1/32	1	29		
54854BEUB0616			3/8	1.98	.59	.09	.37	3/8	1	29		
54854BEUB0828			1/2	3.00	.88	.09	.37	1/2	1 1/4	29		
54858BEUB0416			1/4	1.88	.67	.09	.41	3/8	1	33		BROWN
54855BEUB			1/4	1.28	.59	.11	.41	1/4	5/8	33		
54855BEUB0412		60 Navy	1/4	1.35	.68	.11	.41	1/4	3/4	33		
54856BEUB	#2-3 AWG	#3 Weld	5/16	1.63	.59	.11	.41	3/8	3/4	33		
54810BEUB		125/24 = 50.4 kcmil	3/8	2.57	.59	.11	.41	3/8	1 1/4	33		
54810BEUB0616			3/8	1.94	.59	.11	.41	3/8	1	33		
54811BEUB			1/2	3.00	.88	.11	.41	1/2	1 1/4	33		
54809BEUB			1/4	1.19	.67	.11	.47	1/4	5/8	37		GREEN
54812BEUB		75 Navy	1/4	1.40	.67	.11	.47	1/4	3/4	37		
54858BEUB	#1 AWG	150/24 = 60.5 kcmil	5/16	1.63	.67	.11	.47	3/8	7/8	37		
54857BEUB0616		175/24 = 70.6 kcmil	3/8	1.98	.67	.11	.47	3/8	1	37		
54857BEUB		#2 Weld	1/2	3.00	.88	.11	.47	1/2	1 1/4	37		
54859BEUB0416			1/4	1.88	.75	.13	.52	3/8	1	42		PINK
54859BEUB0416PH			1/4	1.88	.75	.13	.52	3/8	1	42		
54859BEUB		100 Navy	1/4	1.19	.75	.13	.52	1/4	5/8	42		
54813BEUB	1/0 AWG	#1 Weld	1/4	1.38	.75	.13	.52	1/4	3/4	42		
54860BEUB		225/24 = 90.8 kcmil	5/16	1.63	.75	.13	.52	3/8	7/8	42		
54860BEUB0616			3/8	1.98	.75	.13	.52	3/8	1	42		
54860BEUB0828			1/2	3.00	.75	.13	.52	5/8	1 1/4	42		
54814BEUB			1/4	1.25	.83	.13	.57	1/4	5/8	45		BLACK
54814BEUB0412		125 Navy	1/4	1.31	.81	.13	.57	1/4	3/4	45		
54862BEUB0616	2/0 AWG	275/24 = 111 kcmil	3/8	1.81	.83	.13	.57	3/8	1	45		
54862BEUB0616PH		1/0 Weld	3/8	1.81	.83	.13	.57	3/8	1	45		
54862BEUB			1/2	2.81	.83	.13	.57	1/2	1 1/4	45		

¹ Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

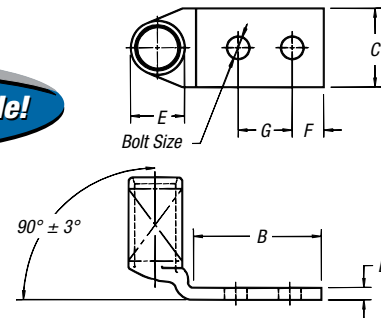
Two-Hole Lugs — 90° Long Barrel 600V to 35kV Applications (continued)

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



Peep Holes Available!
Add suffix **-PH**



CAT. NO.	WIRE SIZE			DIMENSIONS (IN.)						DIE CODE	DIE COLOR	
	CODE	FLEX CLASS	G, H, I, K, M [†]	BOLT SIZE	B	C	D	E	F			G
54815BEUB		150 Navy		¼	1.45	.92	.13	.63	¼	¾	50	ORANGE
54816BEUB	3/0 AWG	2/0 Weld		¾	1.63	.92	.13	.63	¾	¾	50	
54864BEUB		325/24 = 131 kcmil		½	3.00	.94	.13	.63	½	1¼	50	
54817BEUB				¼	1.38	1.03	.14	.70	¼	¾	54	PURPLE
54818BEUB		200 Navy		¾	2.63	1.03	.14	.70	¾	1¼	54	
54818BEUB0616	4/0 AWG	450/24 = 182 kcmil		¾	1.81	1.03	.14	.70	¾	1	54	
54818BEUB0616PH		3/0 Weld		¾	1.88	1.03	.14	.70	¾	1	54	YELLOW
54866BEUB				½	3.00	1.03	.14	.70	½	1¼	54	
54868BEUB0616		250 Navy		¾	1.93	1.13	.14	.77	¾	1	62	
54868BEUB0616PH	250 kcmil	550/24 = 222 kcmil		¾	1.93	1.13	.14	.77	¾	1	62	WHITE
54868BEUB		4/0 Weld		½	3.00	1.13	.14	.77	½	1¼	62	
54819BEUB		300 Navy		¾	2.80	1.25	.15	.85	¾	1	66	
54870BEUB	300 kcmil	250 Weld, 26, 2, 650/24		½	3.00	1.25	.15	.85	½	1¼	66	RED
54820BEUB				¼	1.93	1.36	.18	.93	¼	¾	71	
54872BEUB0616				¾	1.93	1.36	.18	.93	¾	1	71	
54872BEUB0616PH	350 kcmil			¾	1.93	1.36	.18	.93	¾	1	71	BLUE
54872BEUB				½	3.00	1.36	.18	.93	½	1¼	71	
54822BEUB		400 Navy		¼	1.93	1.41	.17	.96	¼	¾	76	
54821BEUB	400 kcmil	775/24 = 313 kcmil		¾	1.93	1.41	.17	.96	¾	1	76	BROWN
54874BEUB		300 Weld, 350, 259 Str.		½	3.00	1.41	.17	.96	½	1¼	76	
54823BEUB				¼	1.94	1.61	.22	1.10	¼	¾	87	
54823BEUB0616		400 Weld, G, H, I		¾	1.93	1.61	.22	1.10	¾	1	87	GREEN
54876BEUB0616PH	500 kcmil	925/24 = 373 kcmil		¾	1.93	1.61	.22	1.10	¾	1	87	
54876BEUB		350, K		½	3.00	1.61	.22	1.10	½	1¼	87	
54824BEUB		450 Weld, I, K		¾	2.80	1.75	.24	1.20	¾	1	94	BLACK
54878BEUB	600 kcmil	1100/24 = 444 kcmil		½	3.00	1.75	.24	1.20	½	1¼	94	
54880BEUB0616				¾	2.06	1.94	.27	1.33	¾	1	106	
54880BEUB0616PH	750 kcmil	500, G, H, I, K		¾	2.06	1.94	.27	1.33	¾	1	106	YELLOW
54880BEUB		1325/24 = 535 kcmil		½	3.00	1.94	.27	1.33	½	1¼	106	
58884BEUB		1600/24 = 646 kcmil		½	3.00	1.94	.27	1.33	½	1¼	106	
58826BEUB	900 kcmil	1925/24 = 777 kcmil		½	3.00	2.18	.31	1.50	½	1¼	115	N/A
54826BEUB				¾	2.80	2.27	.30	1.55	¾	1	125	
54882BEUB	1000 kcmil	1000 Navy		¾	3.00	2.27	.30	1.55	¾	1¼	125	

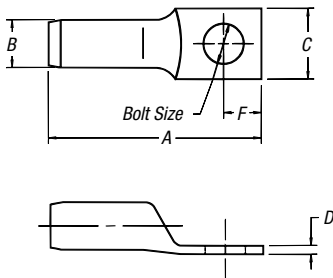
[†] Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

Copper One-Hole Lugs for 600V to 35kV Applications



These connectors are recommended for up to 15kV applications. 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.



INSTALLING TOOLS											
13100A, TBM15I* & TBM14M											
CAT. NO.	CABLE SIZE [†]	STUD SIZE (IN.)	DIMENSIONS (IN.)						DIE SET CAT. NO.	STRIP LENGTH (IN.)	COLOR CODE
			A	B	C	D	E	F			
54440	#4 AWG	3/8	2.08	.81	.58	.08	3/8	1/2	15CA29R	1 1/16	GRAY
54443	#2 AWG	3/8	2.25	.81	.66	.09	3/8	1/2	15CA33R	1 1/16	BROWN
54448	#1 AWG	3/8	2.36	.81	.69	.10	3/8	1/2	15CA37R	1 19/32	GREEN
54409	1/0 AWG	3/8	2.38	.81	.75	.12	3/8	1/2	15CA42R	1 3/8	PINK
54460	2/0 AWG	1/2	2.73	1.06	.83	.12	1/2	1/2	15CA45R	1 3/8	BLACK
54465	3/0 AWG	1/2	2.81	1.06	.94	.12	1/2	1/2	15CA49R	1 3/4	ORANGE
54470	4/0 AWG	1/2	2.78	1.06	1.00	.13	1/2	1/2	15CA54R	1 13/16	PURPLE
54413	250 kcmil	1/2	3.19	1.06	1.07	.14	1/2	1/2	15CA60R	2 1/32	RUBY

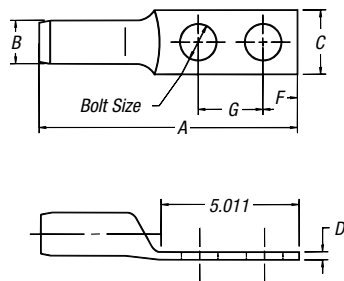
[†] Cable size: Concentric and compact strandings

* Cat. No. TB15500 Die Adapter required for TBM15I

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Copper Two-Hole Lugs for 600V to 35kV Application



INSTALLING TOOLS												
13100A, TBM15I* & TBM14M												
CAT. NO.	CABLE SIZE [†]	STUD SIZE (IN.)	DIMENSIONS (IN.)							DIE SET CAT. NO.	STRIP LENGTH (IN.)	COLOR CODE
			A	B	C	D	E	F	G			
54475	1/0 AWG	3/8	3.56	1 1/32	.77	.12	3/8	3/8	1.00	15CA42R	1 3/8	PINK
54476	2/0 AWG	1/2	4.67	9/16	.83	.12	1/2	1/2	1.75	15CA45R	1 3/8	BLACK
54478	3/0 AWG	1/2	4.75	3/4	.94	.12	1/2	1/2	1.75	15CA49R	1 3/4	ORANGE
54479	4/0 AWG	1/2	4.64	1 1/16	1.00	.13	1/2	1/2	1.75	15CA54R	1 13/16	PURPLE
54480	250 kcmil	1/2	5.17	3/4	1.08	.14	1/2	1/2	1.75	15CA60R	2 1/32	RUBY
54481	300 kcmil	1/2	5.16	1 1/16	1.19	.16	1/2	1/2	1.75	15CA66R	2 3/32	WHITE
54482	350 kcmil	1/2	5.35	7/8	1.29	.19	1/2	1/2	1.75	15CA71R	2 13/32	RED
54483	400 kcmil	1/2	5.35	59/64	1.36	.18	1/2	1/2	1.75	15CA76R	2 13/32	BLUE
54484	500 kcmil	1/2	5.60	1 1/16	1.54	.23	1/2	1/2	1.75	15CA87R	2 13/32	BROWN
54485	600 kcmil	1/2	5.83	1 11/64	1.70	.24	1/2	1/2	1.75	15CA94R	2 9/16	GREEN
54487	750 kcmil	1/2	6.13	1 19/64	1.89	.27	1/2	1/2	1.75	15CA106R	2 3/4	BLACK
54490	1000 kcmil	1/2	6.60	1 1/2	2.18	.31	1/2	1/2	1.75	15C125R•	2 29/32	—

• No adapter required – TBM15I only

[†] Cable size: Concentric and compact strandings

TBM14M and 13100A UL Listing limited to 1/0 AWG–500 kcmil cable sizes

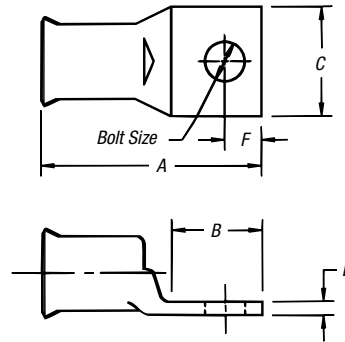
* Cat. No. TB15500 Die Adapter required for TBM15I

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

Bell-Ended Lugs — Standard Barrel



Bell-Shaped Barrel

CAT. NO.	WIRE SIZE			CLASS G	CLASS H	CLASS I	CLASS K	CLASS M	BOLT SIZE (IN.)	DIMENSIONS (IN.)					DIE CODE	DIE COLOR
	CODE	NAVY	FLEX							A	B	C	D	F		
54104BS	8	23	37/24	8	8	—	8	8	#10	1 1/16	1 5/32	1 3/32	5/64	7/32	21	RED
54105BS	6	30	61/24	5	5	5	5	5	1/4	1 1/16	9/16	7/16	7/64	1/4	24	BLUE
54106BS	4	40-50	91/24	5	5	5	5	5	1/4	1 3/32	9/16	9/16	7/64	1/4	29	GRAY
54139BS	3 & 4	40-50	91/24	4	4	4	4	4	5/16	1 1/16	2 5/32	1 9/32	5/64	1 1/32	29	GRAY
54142BS	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	33	BROWN
54147BS	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	37	GREEN
54153BS	1/0	100	225/24	1	1	1	1	1	5/16	1 3/8	2 3/32	3/4	9/64	3/8	42	PINK
54110BS	2/0	125	275/24	1/0	1/0	1/0	1/0	1/0	3/8	1 3/8	1 3/16	1 3/16	9/64	3/8	45	BLACK
54165BS	3/0	150	325/24	2/0	2/0	2/0	2/0	2/0	1/2	2 7/32	1 1/16	1 5/16	9/64	1/2	50	ORANGE
54170BS	4/0	200	450/24	3/0	3/0	3/0	3/0	3/0	1/2	2 5/16	1 1/16	1 1/32	5/32	1/2	54	PURPLE
58165BS	250	—	550/24	4/0	4/0	—	—	—	1/2	2 15/32	1 1/8	1 1/4	3/16	1/2	62	YELLOW
54114BS	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	66	WHITE
54152BS	350	350	650/24	—	—	250	250	250	1/2	2 3/8	1 3/16	1 3/8	1 3/64	9/16	66	WHITE
54185BS	400	400	775/24	300	300	300	300	300	5/8	3 1/16	1 11/16	1 13/32	7/32	1 3/16	76	BLUE
58177BS	500	—	925/24	400	400	400	350	350	1/2	3	1 1/16	1 5/8	1/4	1 3/16	80	N/A
58180BS	600	—	1100/24	—	—	450	450	450	5/8	3 3/8	1 11/16	1 29/32	1 7/64	1 3/16	94	GREEN
54122BS	700	—	1325/24	500	500	500	500	500	5/8	3 3/8	1 11/16	1 29/32	9/32	1 3/16	99	PINK
54123BS	750	—	—	600	—	—	—	550	5/8	3 3/8	1 11/16	1 15/16	5/16	1 3/16	106	BLACK
54124BS	800	800	—	—	—	—	600	—	5/8	3 3/16	1 11/16	2	5/16	5/8	107	ORANGE
54126BS	900	—	1925/24	—	—	—	—	—	5/8	4 1/8	1 13/16	2 3/16	1 1/32	7/8	115	YELLOW

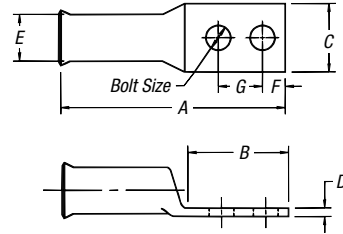
Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Compression Connectors for Copper Conductor

Bell-Ended Lugs — Long Barrel



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 CODE	DIE COLOR
	CODE	NAVY	FLEX							A	B	C	D	E	F	G		
54850BEBS	8	23	8	8	8	—	8	—	¼	2.19	1.88	.42	.07	.26	.25	.63	21	RED
54851BEBS	8	23	8	8	8	—	8	—	¼	2.31	1.29	.47	.06	.26	.25	.75	21	RED
54851BE0616BS	8	23	8	8	8	—	8	—	¾	3.00	2.10	.56	.06	.26	.38	1.00	21	RED
54852BE0616BS	6	30	6	5	5	5	5	—	¾	2.93	1.93	.59	.06	.30	.38	1.00	24	BLUE
54852BEBS	6	30	6	5	5	5	5	—	¼	2.28	1.28	.44	.08	.30	.25	.63	24	BLUE
54852BE0412BS	6	30	6	5	5	5	5	—	¼	2.43	1.43	.43	.07	.30	.25	.75	24	BLUE
54854BEBS	4-3	40-50	5	5	5	5	5	—	¼	2.31	1.19	.52	.10	.37	.25	.63	29	GRAY
54854BE0412BS	4-3	40-50	5	5	5	5	5	—	¼	2.31	1.31	.56	.09	.37	.25	.75	29	GRAY
54854BE0616BS	4-3	40-50	5	5	5	5	5	—	¾	3.13	1.98	.59	.09	.37	.38	1.00	29	GRAY
54855BE0412BS	2	60	3	3	3	3	3	3	¼	2.63	1.35	.68	.11	.41	.25	.75	33	BROWN
54855BEBS	2	60	3	3	3	3	3	3	¼	2.43	1.28	.59	.11	.41	.25	.63	33	BROWN
54856BEBS	2	60	3	3	3	3	3	3	¾	2.78	1.63	.59	.11	.41	.38	.75	33	BROWN
54810BE0616BS	2	60	3	3	3	3	3	3	¾	3.08	1.94	.59	.11	.41	.38	1.00	33	BROWN
54811BEBS	2	60	3	3	3	3	3	3	½	4.28	3.00	.88	.09	.41	.50	1.75	33	GREEN
54809BEBS	1	75	2	2	2	2	2	2	¼	2.88	1.19	.67	.11	.47	.25	.63	37	GREEN
54812BEBS	1	75	2	2	2	2	2	2	¼	2.75	1.40	.67	.11	.47	.25	.75	37	GREEN
54858BEBS	1	75	2	2	2	2	2	2	¾	2.97	1.63	.67	.11	.47	.38	.88	37	GREEN
54857BEBS	1	75	2	2	2	2	2	2	½	4.43	3.00	.88	.10	.47	.50	1.75	37	GREEN
54859BEBS	1/0	100	1	1	1	1	1	1	¼	2.63	1.19	.75	.13	.52	.25	.63	42	PINK
54813BEBS	1/0	100	1	1	1	1	1	1	¼	2.71	1.38	.75	.13	.52	.25	.75	42	PINK
54860BEBS	1/0	100	1	1	1	1	1	1	¾	2.97	1.63	.75	.13	.52	.38	.88	42	PINK
54860BE0616BS	1/0	100	1	1	1	1	1	1	¾	3.23	1.93	.75	.13	.52	.38	1.00	42	PINK
5414BEBS	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	45	BLACK
54814BE0412BS	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	45	BLACK
54862BE0616BS	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	45	BLACK
54862BEBS	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	45	ORANGE
54815BEBS	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	50	ORANGE
54816BEBS	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	50	ORANGE
54864BEBS	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	50	ORANGE
54817BEBS	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	54	PURPLE
54818BE0616BS	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	54	PURPLE
54818BEBS	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	54	PURPLE
54866BEBS	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	54	PURPLE
54868BE0616BS	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	62	YELLOW
54868BEBS	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	62	YELLOW
54819BEBS	300	300	262 kcmil	250 kcmil	250	250	250	—	¾	5.04	2.80	1.25	.15	.85	.50	1.00	66	WHITE
54870BEBS	300	300	262 kcmil	250 kcmil	250	250	250	—	½	5.23	3.00	1.25	.15	.85	.50	1.75	66	WHITE
54822BEBS	400	400	313 kcmil	300 kcmil	300	300	300	—	¼	4.38	1.93	1.41	.17	.96	.63	.75	76	BLUE
54821BEBS	400	400	313 kcmil	300 kcmil	300	300	300	—	¾	4.43	1.93	1.41	.17	.96	.63	1.00	76	BLUE
54874BEBS	400	400	313 kcmil	300 kcmil	300	300	300	—	½	5.51	3.00	1.41	.17	.96	.63	1.75	76	BLUE
54823BEBS	500	—	373 kcmil	400 kcmil	400	400	350	—	¼	4.93	1.94	1.61	.22	1.10	.50	.75	87	BROWN
54876BE0616BS	500	—	373 kcmil	400 kcmil	400	400	350	—	¾	5.00	1.93	1.61	.22	1.10	.50	1.00	87	BROWN
54876BEBS	500	—	373 kcmil	400 kcmil	400	400	350	—	½	6.00	3.00	1.61	.22	1.10	.50	1.75	87	BROWN
54824BEBS	—	—	444 kcmil	—	—	450	450	—	¾	5.70	2.80	1.75	.24	1.20	.63	1.00	94	GREEN
54878BEBS	—	—	444 kcmil	—	—	450	450	—	½	5.83	3.00	1.75	.24	1.20	.63	1.75	94	GREEN
54880BEBS	700	—	535 kcmil	500 kcmil	500	500	500	—	½	6.20	3.00	1.94	.27	1.33	.63	1.75	106	BLACK
58826BEBS	900	—	777 kcmil	—	—	—	—	—	½	6.49	2.80	2.27	.30	1.50	.63	1.75	115	YELLOW

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Compression Connectors for Copper Conductor

Two-Barrel Lugs 600V to 35kV Applications

Material: High-Conductivity Wrought Copper

Finish: Electro Tin Plate

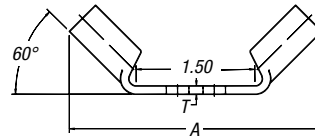
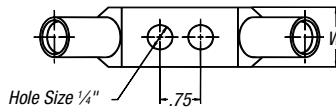


Figure 1

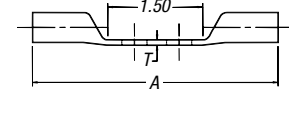
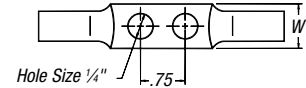


Figure 2



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

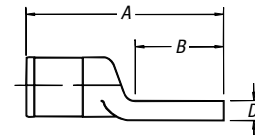
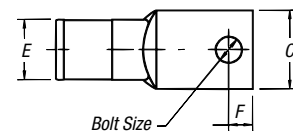
Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Cast Copper One-Hole Lugs 600V to 35kV Applications — Heavy-Duty

Material: Cast Copper

Finish: Electro Tin Plate



CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)					BOLT SIZE (IN.)	DIE CODE
		A	B	C	D	F		
53104	8	1 1/16	3/4	1/2	1/8	9/32	#10	29
53105	6	1 1/16	3/4	1/2	1/8	9/32	1/4	29
53106	4	1 1/16	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	17/32	3/8	66
53111	3/0	2 5/8	1 1/4	1	9/32	17/32	3/8	66
53112	4/0	2 5/8	1 1/4	1	9/32	17/32	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 13/16	1 3/8	1 3/8	1 3/32	7/8	1/2	107
53169*	1325/24	3 5/16	1 3/8	1 3/8	1 3/32	7/8	1/2	107
53123	750 kcmil	4 3/16	2 1/8	1 3/8	7/16	1	1/2	112
53173*	2750/24	5 1/16	1 3/8	2 1/8	9/16	1 3/16	1/2	150

All other Cat. Nos.: Use hydraulic tools with hex dies.

* No UL/CSA

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

Cast Copper Two-Hole Lugs for Code Copper Cable 600V to 35kV

Material: Cast Copper

Finish: Electro Tin Plate

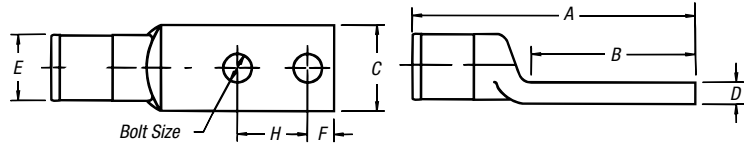


Figure 1

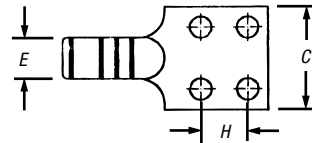


Figure 2



CAT. NO.	CODE CABLE SIZE	BOLT G SIZE (IN.)	DIMENSIONS (IN.)							DIE CODE	NO. OF CRIMPS		
			A APPROX.	B	C	D	E	F	H		12 TON	15 TON	40 TON
256-30695-1055	#14-10 AWG	1/4	2	1 1/16	1/2	1/8	3/8	1/4	5/8-3/4	29	1	1	1
53204	#8 AWG	1/4	2	1 1/16	1/2	3/32*	3/8	1/4	5/8	29	1	1	1
53205	#8 AWG	1/4	2	1 1/16	1/2	1/8	3/8	1/4	5/8	29	1	1	1
53206	#4 AWG	1/4	2	1 1/16	1/2	1/8	3/8	1/4	5/8	29	1	1	1
53207	#2 AWG	1/4	3	2	3/4	1/8	1 1/32	1/2	3/4	45	1	1	1
53208	#1 AWG	1/4	3	2	3/4	1/4	1 1/32	1/2	1	45	1	1	1
53209	1/0 AWG	3/8	3	2	3/4	1/4	1 1/32	1/2	1	45	1	1	1
53210	2/0 AWG	3/8	4 1/16	3	3/4	3/16*	2 1/32	5/8	1 3/4	66	1	1	1
53211	3/0 AWG	1/2	4 1/16	3	1	3/32	2 1/32	5/8	1 3/4	66	1	1	1
53212	4/0 AWG	1/2	4 1/16	3	1	3/32	2 1/32	5/8	1 3/4	66	1	1	1
53213	250 kcmil	1/2	4 1/16	3	1 1/16	3/16*	1 1/16	5/8	1 3/4	76	1	1	1
53214	300 kcmil	1/2	4 1/16	3	1 1/16	3/16	1 1/16	5/8	1 3/4	76	1	1	1
53215	350 kcmil	1/2	5 1/16	3 1/2	1 3/8	1/4*	1 1/32	5/8	1 3/4	99	2	1	1
53216	400 kcmil	1/2	5 1/16	3 1/2	1 3/8	3/8	1 1/32	5/8	1 3/4	99	2	1	1
53218	500 kcmil	1/2	5 1/16	3 1/2	1 3/8	3/8	1 1/32	5/8	1 3/4	99	2	1	1
53220M	600 kcmil	1/2	5 1/16	3 1/2	1 3/8	1 1/32	1 23/64	5/8	1 3/4	112	2	1	1
53222M	700 kcmil	1/2	5 1/16	3 1/2	1 3/8	±1/32	1 23/64	5/8	1 3/4	112	2	1	1
53223M	750 kcmil	1/2	5 1/16	3 1/2	1 3/8	±1/32	1 23/64	5/8	1 3/4	112	2	1	1
53269	1325/24	1/2	5 1/2	3 1/2	1 3/8	1 1/32	1 3/8	5/8	1 3/4	107	2	1	1
53224	800 kcmil	1/2	6	3 1/2	1 7/8	5/16*	1 1/16	5/8	1 3/4	130	—	1	1
53226	900 kcmil	1/2	6	3 1/2	1 7/8	1 1/32	1 1/16	5/8	1 3/4	130	—	1	1
53228	1000 kcmil	1/2	6	3 1/2	1 7/8	1 1/32	1 1/16	5/8	3/4	130	—	1	1
53273	1111 kcmil 2750/24	1/2	6 3/16	3 1/2	2 1/8	9/16	1 29/32	5/8	1 3/4	150	—	—	—
53233	1500 kcmil	1/2	6 1/4	3 1/2	2 1/4	1/2*	1 29/32	5/8	1 3/4	150	—	1	1
53233L	1500 kcmil	1/2	7 1/16	3 1/2	2	1/2	1 1/8	5/8	1 3/4	150	—	1	—
53433L**	1500 kcmil	1/2	7 1/16	3 3/8	3	1/2	1 1/8	5/8	1 3/4	150	—	1	—
251-30485-1275	1250 kcmil	1/2	6 1/16	3 1/2	2 1/8	9/16	1 29/32	5/8	1 3/4	150	—	—	—
251-30485-1211	1750 kcmil	—	6 3/8	3 3/8	3	1/2	2 1/16	—	—	175	—	—	2 (Fig. 2)
251-30485-1212	1750 kcmil	—	6 3/8	3 1/2	2 1/4	1/2	2 1/16	—	—	175	—	—	2 (Fig. 1)
53239	2000 kcmil	1/2	6 3/16	3 1/2	2 3/4	1/2	2 1/16	5/8	1 3/4	175	—	—	—
53239L	169/.110 178/.104 2000 kcmil	1/2	7 1/16	3 3/8	2 1/4	1/2	2 1/32	5/8	1 3/4	175	—	—	—
53439L**	169/.110 178/.104 2000 kcmil	1/2	7 1/16	3 3/8	3	1/2	2 1/16	5/8	1 3/4	175	—	—	11421 Die

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

** Figure 2. All others Figure 1.

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

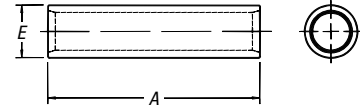
Compression Connectors for Copper Conductor

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.



CAT. NO.	CODE	WIRE SIZE FLEX CLASS G, H, I, K, M†	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	GRAY
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	
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	
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	
54523-TB	750 kcmil	—	3.00	1.30	106	BLACK
54528	1000 kcmil	—	3.63	1.50	125	
54530	1250 kcmil	—	4.13	1.67	140	N/A

† Contact Technical Services for specific stranding listings

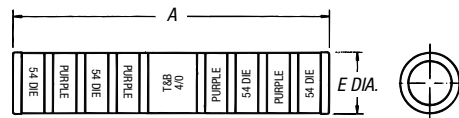
Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Two-Way Splice Connectors — Long Barrel 600V to 35kV

Material: High-Conductivity Wrought Copper

Finish: Electro Tin Plate



CAT. NO.	CODE	WIRE SIZE FLEX CLASS G, H, I, K, M†	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	GRAY
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

† Contact Technical Services for specific stranding listings

* UL Listed for direct burial applications

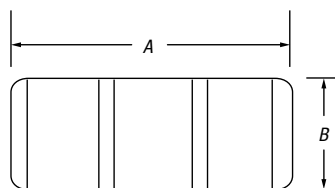
CAT. NO.	CODE	WIRE SIZE FLEX	DIMENSIONS (IN.)		DIE CODE	DIE COLOR
			A	E		
54814	300 kcmil	—	3.50	.87	66	WHITE
54815	350 kcmil	650/24 = 262 kcmil	3.75	.95	71	RED
54816	400 kcmil	775/24 = 313 kcmil	3.75	.98	76	BLUE
54818*	500 kcmil	925/24 = 373 kcmil	4.75	1.11	87	BROWN
54820	600 kcmil	1100/24 = 444 kcmil	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	
58526	900 kcmil	1925/24 = 777 kcmil	5.50	1.51	115	YELLOW
54828	1000 kcmil	—	5.63	1.56	125	
54833	1500 kcmil	—	5.63	1.56	125	N/A
54839	2000 kcmil	—	7.06	2.125	—	

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Compression Connectors for Copper Conductor

Copper Two-Way Splice Connectors for 600V to 35kV Applications



CAT. NO.	CABLE SIZE+	DIMENSIONS		DIE SET CAT. NO.	STRIP LENGTH (IN.)	COLOR CODE
		A	B			
INSTALLING TOOLS						
13100A, TBM151* & TBM14M						
54006	#4 AWG	2.00	.37	15CA29R	1½	GRAY
54007	#2 AWG	2.13	.41	15CA33R	1¾	BROWN
54008	#1 AWG	2.25	.47	15CA37R	1¾	GREEN
54009	1/0 AWG	2.38	.52	15CA42R	1¾	PINK
54010	2/0 AWG	2.38	.57	15CA45R	1¾	BLACK
54011	3/0 AWG	2.63	.63	15CA49R	1¾	ORANGE
54012	4/0 AWG	2.69	.69	15CA54R	1¾	PURPLE
54013	250 kcmil	3.19	.74	15CA60R	2¼	RUBY
54015	350 kcmil	4.13	.89	15CA71R	2¾	RED
54018	500 kcmil	4.13	1.06	15CA87R	2¾	BROWN
54023	750 kcmil	4.75	1.30	15CA106R	2¾	BLACK

* Cat. No. 15500-TB Die Adapter required for TBM151

+ Cable Size: Concentric and Compact strandings

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Cast-Copper Two-Way Splice Connectors for 600V to 35kV Applications — Heavy-Duty



CAT. NO.	CABLE SIZE	DIE CODE
53504	#8 AWG	29
53505	#6 AWG	29
53506	#4 AWG	29
53507	#2 AWG	45
53508	#1 AWG	45
53509	1/0 AWG	45
53510	2/0 AWG	66
53511	3/0 AWG	66
53512	4/0 AWG	66
53513	250 kcmil	76
53515	350 kcmil	99
53518	500 kcmil	99
53523	750 kcmil	112

Use hydraulic tools with hex dies.

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Material: Cast Copper

Finish: Electro Tin Plate

Satisfies requirements of NEC® 250.64(C)(1) for connecting to the grounding electrode system.

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.

Compression Connectors for Copper Conductor

Compact design for low-profile installation.

Copper Reducing Splices

Thomas & Betts copper reducing splices are the most recent addition to the telecom line of copper compression lugs and connectors. They are designed for use in Central Office equipment installations in place of H-Taps in applications where the main cable is stepped down. When space is at a premium and standard H-Tap splicing options are too cumbersome, the Thomas & Betts reducing splices can be the right choice. These splices are available for a range of cables from 750 Flex to 6 Code.

- Requires less “real estate” in a Central Office
- Does not require a cover other than clear heat shrink
- One-person installation — each side crimped separately
- Utilizes standard lug crimping dies — more standard tooling options — lower tonnage tools can now install even the largest splice
- Hand tools can be used on splices for 500 Code/350 Flex and smaller
- Inspection holes verify cable is fully inserted into each barrel



Splices for the following cable combinations are available. Appropriate quantities of pre-cut lengths of UL[®] Listed clear-heat shrink are provided with each splice.

CAT. NO. CODE	MAIN	COLOR CODE	BRANCH	COLOR
TBR75F-75C50FHS	750 Flex	YELLOW	750 Code/500 Flex	BLACK
TBR75F-50C35FHS	750 Flex		500 Code/350 Flex	BROWN
TBR75F-25C4/0FHS	750 Flex		250 Code/4/0 Flex	YELLOW
TBR75C50F-75C50FHS	750 Code/500 Flex	BLACK	750 Code/500 Flex	BLACK
TBR75C50F-50C35FHS	750 Code/500 Flex		500 Code/350 Flex	BROWN
TBR75C50F-25C4/0FHS	750 Code/500 Flex		250 Code/4/0 Flex	YELLOW
TBR75C50F-4/0CHS	750 Code/500 Flex		4/0 Code	PURPLE
TBR4/0C-2CHS	4/0 Code	PURPLE	2 Code	BROWN
TBR4/0C-6CHS	4/0 Code		6 Code	BLUE
TBR2/0C1/0F-2CHS	2/0 Code/1/0 Flex	BLACK	2 Code	BROWN
TBR2/0C1/0F-6CHS	2/0 Code/1/0 Flex		6 Code	BLUE
TBR1/0C1F-2CHS	1/0 Code/1 Flex		2 Code	BROWN
TBR1/0C1F-6CHS	1/0 Code/1 Flex	PINK	6 Code	BLUE
TBR2C-6CHS	2 Code	BROWN	6 Code	BLUE

Tooling: pp. F-80–F-100

Die Selector Chart: pp. F-101–F-104

Compression Connectors for Copper Conductor

Constant O.D. enables faster, easier installation than contoured design.

Cast-Copper Reducing Splices



Thomas & Betts takes the splicing of different-sized conductors to a new level of economy and efficiency with Cast-Copper Reducing Splices. In addition to a lower cost, the key benefit to these splices is in their constant outer diameter. Unlike screw-machined, externally contoured splices, Cast-Copper Reducing Splices require no change of tool or die between crimping each end. Just slide each wire easily into the chamfered barrel, and use the same Color-Keyed tool and die to crimp both ends. The consistent O.D. also makes these splices faster and easier to insulate with clear heat-shrink wrap than a contoured splice. Sand-cast construction ensures high tensile strength for heavy-duty applications, and tin-plated copper material provides high conductivity and superior corrosion resistance.

- Ideal for telecom (inside office/outside plant), commercial, industrial MRO and any other 600V–35kV applications requiring splicing of different-sized conductors
- Tin-plated, sand-cast copper construction provides superior tensile strength, high conductivity, and excellent corrosion resistance
- Easier to install and insulate than screw-machined, contour-designed reducing splices
- Constant O.D. saves time on installation by eliminating the need for crimp tool/die change
- Fast and simple to insulate with clear or colored heat-shrink wrap
- Chamfered barrel facilitates easy wire insertion
- Compact, low-profile design takes up minimal space in cable tray or wire run
- Simple installation with Blackburn® compression tools (see pp. F-80–F-100) and dies (see pp. F-101–F-104)



CAT. NO.	COND. 1 SIZE	COND. 2 SIZE	DIM. A	DIM. E	DIE CODE	DIE COLOR
251-30485-19	4/0 Str.	#2 Str.	2¼"	13/16"	66	WHITE
251-30485-91	500 kcmil Str.	300 kcmil Str.	3¾"	13/16"	99	PINK
251-30485-229	2/0 Str.	250 kcmil Str.	2¾"	15/16"	76	BLUE
251-30485-247	#2 Str.	#8 Str.	19/16"	19/32"	45	BLACK
251-30485-294	#4 Str.	2/0 Str.	2¼"	27/32"	66	WHITE
251-30485-295	4/0 Str.	#4 Str.	2¼"	13/16"	66	WHITE
251-30485-331	4/0 Str.	350 kcmil Str.	35/16"	17/32"	99	PINK
251-30485-445	4/0 Str.	2/0 Str.	2¼"	13/16"	66	WHITE
251-30485-495	1/0 Str.	#2 Str.	19/16"	19/32"	45	BLACK
251-30485-610	#6 Str.	#8 Str.	17/32"	3/8"	29	GRAY
251-30485-611	#4 Str.	#8 Str.	17/32"	3/8"	29	GRAY
251-30485-612	#4 Str.	#6 Str.	17/32"	3/8"	29	GRAY
251-30485-613	#2 Str.	#6 Str.	19/16"	19/32"	45	BLACK
251-30485-640	4/0 Str.	1/0 Str.	2¼"	13/16"	66	WHITE
251-30485-653	#2 Str.	250 kcmil Str.	2¾"	15/16"	76	BLUE
251-30485-739	1/0 Str.	250 kcmil Str.	2¾"	15/16"	76	BLUE
251-30485-882	400 kcmil Str.	350 kcmil Str.	35/16"	17/32"	99	PINK
251-30485-950	1/0 Str.	#6 Str.	19/16"	19/32"	45	BLACK
251-30485-951	#6 Str.	2/0 Str.	2¼"	27/32"	66	WHITE
251-30485-1027	1/0 Str.	#4 Str.	19/16"	19/32"	45	BLACK
251-30485-1029	1/0 Str.	#12 Str.	19/16"	37/64"	45	BLACK
251-30485-1030	10 Str.	#4 Str.	17/32"	3/8"	29	GRAY
251-30485-1031	12 Str.	#4 Str.	17/32"	3/8"	29	GRAY
251-30485-1032	#6 Str.	#10 Str.	17/32"	3/8"	29	GRAY
251-30485-1033	#12 Str.	#6 Str.	17/32"	3/8"	29	GRAY
251-30485-1034	#14 Str.	#8 Str.	17/32"	3/8"	29	GRAY
251-30485-1035	#1 Str.	1/0 Str.	19/16"	19/32"	45	BLACK
251-30485-1044	#10 Str.	#8 Str.	17/32"	3/8"	29	GRAY
251-30485-1045	#12 Str.	#8 Str.	17/32"	3/8"	29	GRAY
251-30485-1085	#10 Str.	1/0 Str.	19/16"	19/32"	45	BLACK
251-30485-1086	#10 Str.	2/0 Str.	2¼"	27/32"	66	WHITE
251-30485-1087	#4 Str.	250 kcmil Str.	2¾"	15/16"	76	BLUE
251-30485-1088	400 kcmil Str.	250 kcmil Str.	35/16"	17/32"	99	PINK
251-30485-1089	#14 Str.	#8 Sol.	17/32"	3/8"	29	GRAY
251-30485-1090	#12 Str.	#8 Sol.	17/32"	3/8"	29	GRAY
251-30485-1091	#10 Str.	#8 Sol.	17/32"	3/8"	29	GRAY
251-30485-1092	#12 Str.	#6 Sol.	17/32"	3/8"	29	GRAY
251-30485-1093	#8 Str.	#6 Sol.	17/32"	3/8"	29	GRAY
251-30485-1094	#4 Str.	#6 Sol.	17/32"	3/8"	29	GRAY
251-30485-1095	#2 Str.	#6 Sol.	19/16"	19/32"	45	BLACK
251-30485-1096	#12 Str.	#4 Sol.	17/32"	3/8"	29	GRAY
251-30485-1097	#10 Str.	#4 Sol.	17/32"	3/8"	29	GRAY
251-30485-1098	#8 Str.	#4 Sol.	17/32"	3/8"	29	GRAY
251-30485-1099	#6 Str.	#4 Sol.	17/32"	3/8"	29	GRAY
251-30485-1100	1/0 Str.	#4 Sol.	19/16"	19/32"	45	BLACK
251-30485-1130	Cast Solid*	#12–#4 Str.	19/32"	3/8"	29 1	BLACK
251-30485-1245	1/0 Flex	#4 Flex	2¼"	13/16"	66	WHITE
251-30485-1246	#4 Flex	#8 Flex	19/16"	37/64"	45	BLACK

*Cast Solid — Field Modifiable Special

C-Tap Connectors for Copper Conductor

Positive, all-around compression with low resistance and high pull-out values.

C-Taps for 600V Applications

- Ideal for pigtail, two-way splicing or tapping to an unbroken continuous main
- Heavy reinforcing ribs help locate compression dies and strengthen compressed joint

Material: High-Conductivity Wrought Copper

Finish: Plain

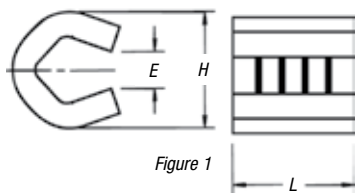


Figure 1

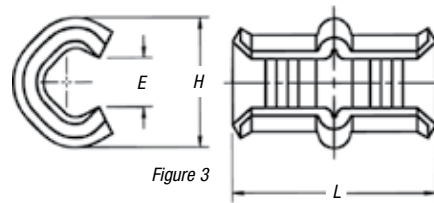


Figure 3

"E" represents gap in side

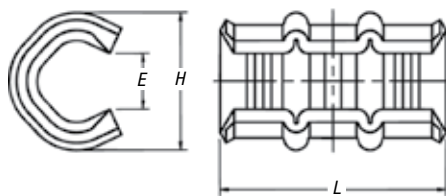


Figure 2



CAT. NO.	FIG. NO.	DIMENSIONS (IN.)			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 1/32	11/16	7/32	BROWN
54725	2	1 1/32	19/16	1/4	GREEN
54730	2	1 1/32	27/32	9/32	PINK
54735	3	1 11/16	7/8	21/64	BLACK
54740	3	1 11/16	31/32	23/64	ORANGE
54745	3	1 11/16	1 1/16	13/32	PURPLE
54750	3	1 11/16	1 3/16	15/32	YELLOW

UL® approved for direct burial.

For covers, see page F-48.

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

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: pp. F-80-F-100

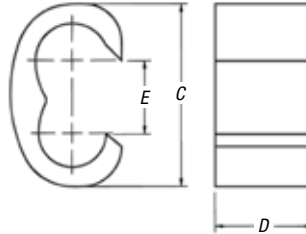
Die Selector Chart: p. F-101-F-104

C-Tap Connectors for Copper Conductor

Easy to work with in tight spaces.

C-Taps — Large Size for 600V Applications

- More economical than other taps and split bolts in terms of purchase, inventory, installation time, insulation and maintenance
- Color-coded for easy matching with proper die
- Barely larger than conductor insulation once installed



Material: High-Conductivity Wrought Copper
Finish: Plain



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 AWG	#1 AWG	1 ¹⁵ / ₁₆	¾	1 ¹ / ₃₂	TBM14M	15512	76	1	BLUE
	1/0 AWG	1/0-#2 AWG				TBM15I	15512*	76		
	2/0 AWG	2/0-#4 AWG				TBM12	TBM12D-4	76		
	3/0 AWG	1/0-#6 AWG				13100A	15512	76		
54760	4/0 AWG	#1-#8 AWG	1 ¹ / ₆	¾	1 ⁹ / ₃₂	TBM14M	15506	87H	2	BROWN
	2/0 AWG	2/0-#1 AWG				TBM15I	15506*	87H		
	3/0 AWG	3/0-#3 AWG				TBM12	TBM12D-3	87H		
	4/0 AWG	4/0-#4 AWG				13100A	15506	87H		
54765	250 kcmil	#1-#8 AWG	1 ¹¹ / ₁₆	1	4 ¹ / ₆₄	TBM14M	15505	99H	2	PINK
	2/0 AWG	2/0-#1 AWG				TBM15I	15505*	99H		
	3/0 AWG	3/0-#2 AWG				TBM12	TBM12D-2	99H		
	4/0 AWG	4/0-#4 AWG				13100A	15505	99H		
54770	250 kcmil	3/0-#6 AWG	1 ¹¹ / ₁₆	1	1 ¹ / ₁₆	TBM14M	15515	106H	2	BLACK
	300 kcmil	2/0-#8 AWG				TBM15I	15515*	106H		
	4/0 AWG	4/0-2/0 AWG				TBM12	TBM12D-2	106H		
	350 kcmil	250 kcmil-#1 AWG				13100A	15515	106H		
54775**	250 kcmil	250 kcmil	1 ⁷ / ₈	1 ¹ / ₄	1 ¹ / ₁₆	TBM14M	15504	115H	2	YELLOW
	300 kcmil	300 kcmil-3/0 AWG				TBM15I	15504*	115H		
	350 kcmil	350 kcmil-1/0 AWG				TBM12	TBM12D-1	115H		
	400 kcmil	300 kcmil-#2 AWG				13100A	15504	115H		
	450 kcmil	250 kcmil-#4 AWG								
54780	500 kcmil	250 kcmil-#6 AWG	2 ³ / ₁₆	1 ¹ / ₄	5 ³ / ₆₄	TBM14M	15504	115H	2	N/A
	350 kcmil	350 kcmil-4/0 AWG				TBM15I	15603	125H		
	400 kcmil	400 kcmil-2/0 AWG								
	450 kcmil	450 kcmil-#1 AWG								
500 kcmil	500 kcmil-#2 AWG									
54785	750 kcmil	4/0-#6 AWG	2 ¹ / ₈	2	1	TBM15I	15603	125H	3	
54790	750 kcmil	750 kcmil-4/0 AWG	2 ¹¹ / ₁₆	2	1 ¹ / ₁₆	TBM15I	15603	125H	3	

UL approved for direct burial.

For covers, see p. F-48

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.

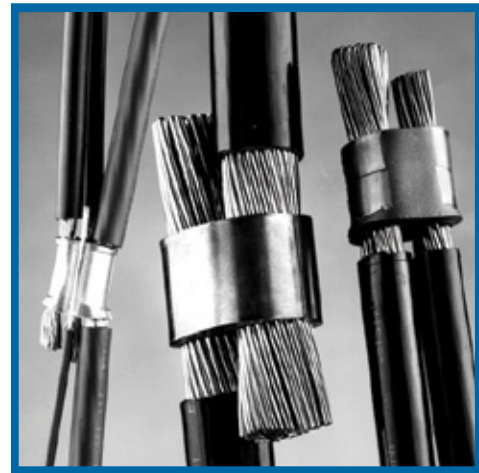
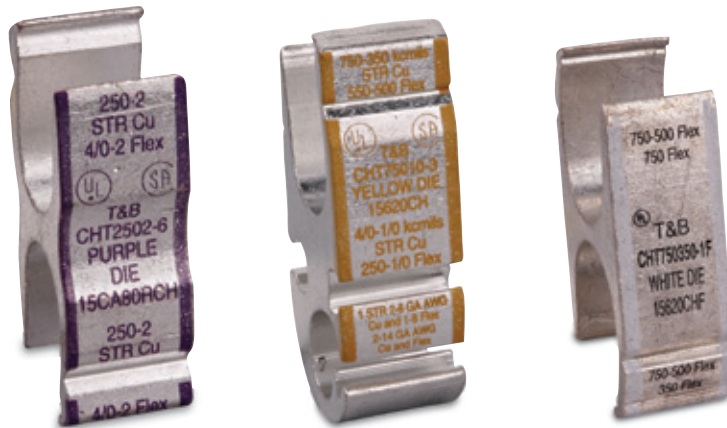
** #6 AWG branch must be doubled.

Tooling: pp. F-80-F-100

Die Selector Chart: p. F-101-F-104

Copper H-Tap Connectors for Copper Conductor

Copper H-Taps — 600V Applications



Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

CRIMPING INFORMATION

CAT. NO.	FIG. NO.	COLOR CODE	CONDUCTOR SIZE CODE (FLEX CABLE)				HYDRAULIC HEAD	INSTALLING DIE	# OF CRIMPS	COLOR CODE	DIE CODE	STRIP LENGTH	INSULATING COVERS
			MAIN	BRANCH 1	BRANCH 2	BRANCH 3							
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	1¾"	HTC500
CHT75010-3	9	YELLOW	750-350 (550-500)	4/0-1/0 (250-1/0)	1 Str. 2-6 (1-8)	2-14 (2-14)	TBM15I	15620CH	1	YELLOW	Z	1¾"	
CHT50040-4	2	BROWN	500-250 (350-4/0)	500-4/0 (350-4/0)	—	—	TBM15I	15612CH	2	BROWN	N	1½"	
50010-5	3	BROWN	500-4/0 (350-4/0)	250-1/0 (4/0-1/0)	1 Str. 2-6 (1-8)	8-14 (8-14)	TBM15I	15612CH	2	BROWN	N	1¾"	HTC40
CHTCHT2502-6	2	PURPLE	250-2 (4/0-2)	250-2 (4/0-2)	—	—	TBM15I• TBM14M	15CA80RCH	1	PURPLE	80R	1¾"	
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	1¾"	
CHT250214-8	5	PURPLE	250-2 (4/0-2)	8-14 (8-14)	8-14 (8-14)	—	TBM15I• TBM14M	15CA80RCH	1	PURPLE	80R	1¾"	HTC2S
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	3	BROWN	71R	7/8"	
CHT814-10	7	GREEN	8-14 (8-14)	8-14 (8-14)	—	—	TBM15I• TBM14M 13100A	15CA37RCH	1	GREEN	37R	½"	
CHT75040-11	8	YELLOW	750 Str. (750-500)	350-4/0 Str. Cu. & Flex	—	—	TBM15I	15620CH	1	YELLOW	Z	1¾"	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: pp. F-80-F-100

Die Selector Chart: p. F-101-F-104

Copper H-Tap Connectors for Copper Conductor

Copper H-Taps — 600V Applications (continued)

Material: High-Conductivity Extruded Copper

Finish: Electro Tin Plate

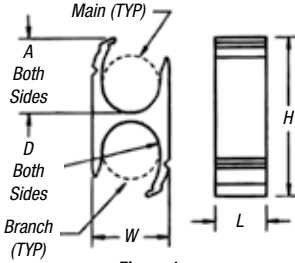


Figure 1

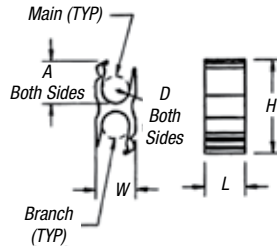


Figure 2

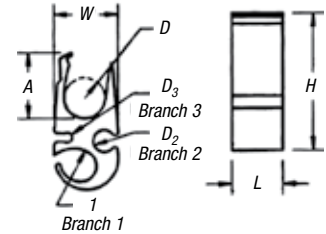


Figure 3

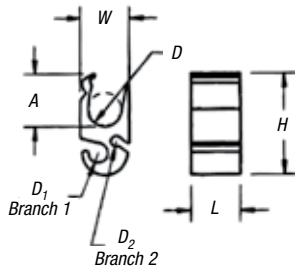


Figure 4

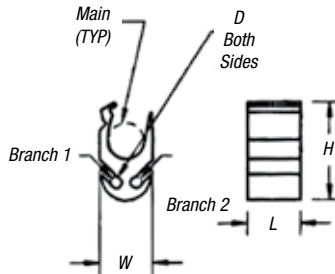


Figure 5

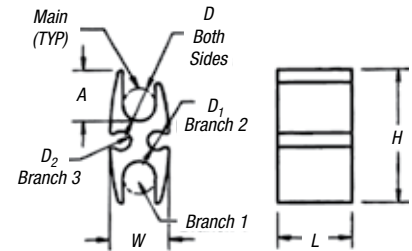


Figure 6

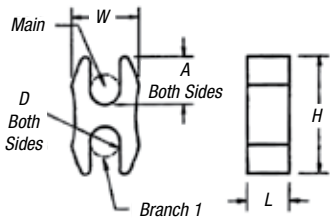


Figure 7

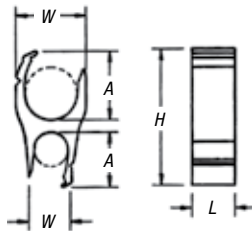


Figure 8

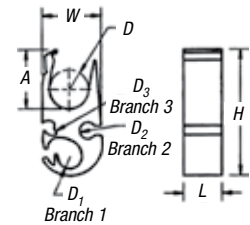


Figure 9



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		
CHT75010-3	9	3.13	1.50	1.00	1.54	1.00	.40	.35	.41	1½	HTC500	
CHT75040-11	8	3.19	(1) 1.65	1.00	(1) 1.61	(1) 1.24	—	—	—	1½		
CHT50040-4	2	2.64	1.18	1.00	1.32	.80	—	—	—	1½	HTC40	
CHT50010-5	3	2.28	1.30	1.00	1.20	.80	.67	.19	.43	1½		
CHT2502-6	2	1.99	.90	.66	1.00	.62	—	—	—	1¼/16	HTC40	
CHT25014-7	4	1.63	.90	.90	.96	.52	.35	.19	—	1½		
CHT250214-8	5	1.63	.90	.90	.96	.62	.19	.19	—	1½		
CHT214-9	6	1.35	.60	.75	.50	.33	.19	.19	—	7/8		
CHT814-10	7	.62	.60	.37	.25	.16	—	—	—	½	HTC2S	

Aluminum H-Tap Connectors

Exclusive FILLERLOK tab design.

Compression Taps for 600V 90° C Applications

- H-type compression taps
- For aluminum-to-aluminum, aluminum-to-copper and copper-to-copper stranded-conductor applications
- Concentric and compact code strandings

Material: High-Conductivity Wrought Aluminum



CAT. NO.	COMBINATIONS			LENGTH (IN.)	COLOR KEY	DIE CODE CAT. NO.			
	MAIN	BRANCH	SIDE TAP			TBM6 TBM6S TBM6ORS	HYDRAULIC TBM14M 13100A	TBM12 12-TON HEAD	TBM151 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		13470	15501A	TBM12D-H	15501A*
63125	2/0-2	1/0-6	—	1½		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	RED	—	15502	TBM12D-H	15502
63160	500-4/0	4/0-2	2-6	2¾	BLACK	—	—	—	15612
63169	750-4/0	750-4/0	—	3		—	—	—	15620
63170	1000-500	1000-1/0	—	6		—	—	—	15620
63180	750-350	350-1/0	1-6	3		—	—	—	15620

* Use with adapter 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: pp. F-80-F-100

Die Selector Chart: p. F-101-F-104

Interlocking Insulating Covers for Compression Taps

Better covers for taps.

Soft Shell H-Tap/ C-Tap Covers

Thomas & Betts offers an improved design for one-piece covers of H-Tap and C-Tap connectors. The new design is more size-efficient and includes an easy latch mechanism. The new covers also contain flash barriers to help protect against electrical flashovers. The covers are molded from high-impact polypropylene (UL94V-1) and are UL[®] Listed, CSA certified to 600V applications at 105° C.

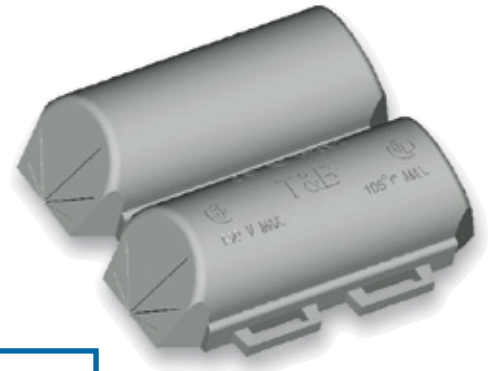
Blackburn[®] Soft Shell Covers include these features:

- **Size-efficient design**
Won't take up as much room in the enclosure or vault, easier to store and carry to the job site
- **Easy Latch Mechanism**
Quick but sturdy cover latch for optimum insulation
- **Flash Barriers**
Provides protection from electrical flashovers
- **105° C Rating**
Offers maximum performance and higher than many competitors' temperature ratings
- **High-Impact Polypropylene**
Constructed from rugged materials for long-lasting protection

Also available in clear, impact-resistant and flame-retardant polycarbonate (UL94V-0). The clear version includes an internal pocket for a visible identification label without opening the cover. Contact Customer Service for shipping and availability.



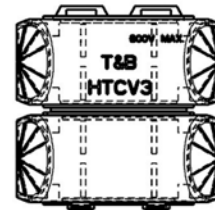
Smaller size requires less space in enclosure
High-impact polypropylene for rugged, dependable use



Easy latch mechanism



Clear, polycarbonate (UL94V-0) version available



CAT. NO.	FOR H-TAPS	FOR C-TAPS	DIMENSIONS (IN.)			PKG. QTY.
			A	B	C	
HTCV1	CHT814-10	54705, 54710, 54715	1 ³ / ₄	7 ¹ / ₈	9 ¹ / ₁₆	5
HTCV2	CHT214-9, CHT250214-8, CHT25014-7, CHT2502-6	54770, 54775, 54780	3 ³ / ₈	1 ¹ / ₈	1	5
HTCV3	CHT50010-5, CHT50040-4	54740, 54745, 54750, 54755, 54760, 54765	3 ⁷ / ₃₂	1 ¹ / ₈	1 ¹ / ₁₆	5
HTCV4	CHT75010-3, CHT750350-2, CHT750350-1F, CHT75040-11	N/A	5 ¹ / ₂	2	1 ¹ / ₁₆	5
HTCV2CLRFR	CHT214-9, CHT250214-8, CHT25014-7, CHT2502-6	N/A	3 ³ / ₈	1 ¹ / ₈	1	5

Interlocking Insulating Covers for Compression Taps

Quick and easy insulation for H-type compression taps.

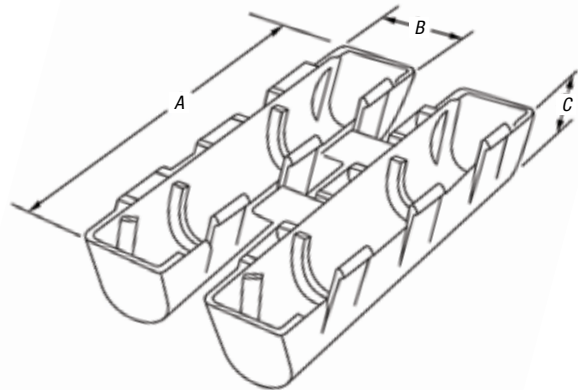
H-Tap Insulating Covers (Soft Cover)

- Eliminates taping
- Provided with three positive locking latches and overlapping fringe for maximum cable insulation



Specifications

- Rating: 90° C, 600V.
Made of flame-retardant, high-impact polypropylene.
- Material: Polypropylene
- Color: Black
- Voltage Rating: 600V max.
- Temperature: 90° C



(C) Height — typical both halves



CAT. NO.	WIRE RANGE		AL H-TAPS	USE TO INSULATE	DIMENSIONS (IN.)			"A" DIM.	"B" DIM.
	MAX.	MIN.			A	B	C		
HT20C	2/0 AWG	#6 AWG	63110/63115 63125/63120	—	4½	1¼	1⅛	—	—
HT40C	4/0 AWG	#6 AWG	63140 63148	—	5 ³ / ₆₄	1 ¹ / ₃₂	1 ¹ / ₁₆	—	—
HT600C	500 kcmil	#2 AWG	63160	63169	6 ¹ / ₁₆	2 ¹ / ₈	1 ³ / ₆₄	—	—
HT1000C	1000 kcmil to 500 kcmil	250 kcmil to 1/0 AWG	63180	—	—	—	—	7.250 (184.15mm)	2.330 +.060
HT1000C-L	1000 kcmil to 500 kcmil	250 kcmil to 250 kcmil	63170	—	—	—	—	10.374 (263.40mm)	2.330 +.060

Interlocking Insulating Covers for Compression Taps

H-Tap Insulating Covers (Hard Covers)

- For use in splice boxes, indoors or in tray indoors
- Easy to use — simply place H-Tap in cover and snap cover closed
- Consult factory for available flame-retardant version
- Hard shell outer covers guard against impact, inner seal keeps out dust
- Installs quickly and easily without special tools — simply snap together
- Eliminates time-consuming taping
- Provides high-quality, neat, uniform installations
- Range-taking design reduces inventory



CAT. NO.	DIMENSIONS (IN.)		
	A (LENGTH)	B (THICK)	C (WIDTH)
HTC2S	2	1 1/8	1 1/16
HTC2	3 1/2	1 1/8	1 1/16
HTC40	4 1/4	1 1/16	2
HTC40L2	5 3/4	1 1/16	2
HTC500	6	1 3/4	2 3/4
HTC1000	7	2 3/8	3 3/8
HTC1000L	10	2 3/8	3 3/8

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 UL 94V-1 Inner Seal — Black neoprene sponge soft closed cell, oxygen index 28% UL 94 HBF

Temperature Rating — 90° C maximum

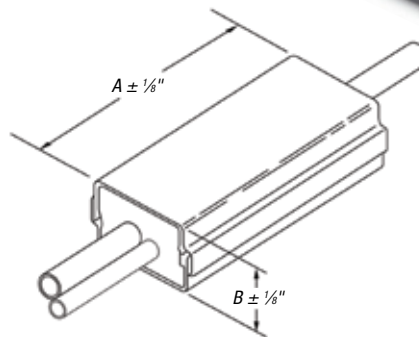
Voltage Rating — 600V maximum

Uses insulation wrap instead of end cushions for inner seal.

Note: Insulation covers are not reusable.

For H-Tap Applications

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
HTC1000L	63170	—
HTC1000	63180/63169	CHT750350-1F



These 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.

For C-Tap Applications

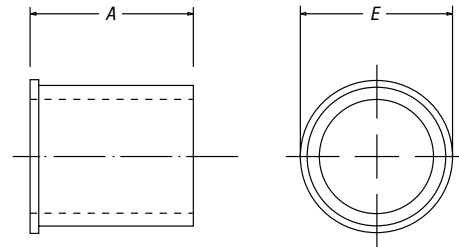
CAT. NO.	C-TAP	COLOR CODE
HTC40	54720	BROWN
	54725	GREEN
	54730	PINK
	54755	BLUE
	54760	BROWN
HTC40L2	54735	BLACK
	54740	ORANGE
	54745	PURPLE
	54750	YELLOW
	54775	YELLOW
HTC500	54765	PINK
	54770	BLACK
	54775	YELLOW
	54780	WHITE
HTC1000	54785	N/A
	54790	N/A

Wire Joints for Copper Conductor

All-around compression ensures high conductivity, low resistance and high pull-out values exceeding UL® requirements.

Compression Wire Joints for Copper Conductor

- Ideal for pigtailing, tapping multiple conductors or two-way splicing
- Form a permanent installation in minimal space
- Easily insulated
- Offer lowest installed cost
- Made of high-conductivity copper and electro-tin-plated
- Colored-coded to dies for positive matching and compression



CAT. NO.	CONNECTOR RANGE					INSTALLING TOOLS						
	CIRCULAR MIL AREA		CABLE COMBINATION		DIM. (IN.)		TBM25S/21E	TBM8/8S	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: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Cast Copper Bus Taps for Copper Conductor

Clamps onto bus bar — no drilling required.

Heavy-Duty Bus Bar Taps — Straight Barrel for 600V to 35kV Applications

- For bus bars up to 1/4" thick, 3–6" wide and code copper cable
- Takes up less than 1 1/4" of bus bar space
- Convex shape of connector tongue exerts great contact pressure on bus bar
- Installs with hydraulic tools and hex crimp dies



Material: High-Conductivity Cast Copper Alloy

Finish: Electro Tin Plate

Contact Material: Beryllium Copper

Finish: Silver

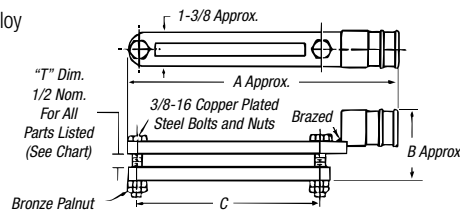


Figure 1

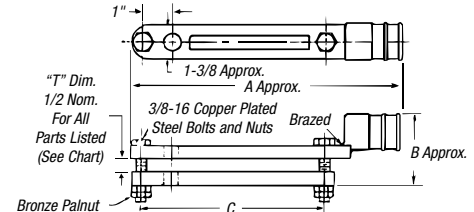


Figure 2

CAT. NO.	WIRE FLEX		FIG. NO.	BUSBAR WIDTH	DIMENSIONS (IN.)			DIE CODE
	CODE	FLEX			A	B	C	
251-31446-1			1	3	6 1/8	2 3/32	3 1/2	66H
251-31446-7	1/0 AWG	225/24	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 3/8	66H
251-31446-8	2/0 AWG	1/0 AWG	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 3/8	66H
251-31446-23			1	3	6 1/8	2 3/16	3 1/2	66H
251-31446-22	4/0 AWG	450/24	1	4	7 1/8	2 3/16	4 1/2	66H
251-31446-19			2	6	9 1/8	2 3/16	6 3/8	66H
251-31446-29		4/0 AWG	1	3	5 1/16	2 3/16	3 3/8	66H
251-31446-30	250 kcmil	550/24	1	4	7 1/8	2 3/16	4 1/2	66H
251-31446-31			1	5 or 6	9 1/8	2 3/16	6 1/16	66H
251-31446-3			1	3	6 3/8	2 3/16	3 1/2	99H
251-31446-9	350 kcmil		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		350	1	3	6 3/8	2 3/16	3 1/2	99H
251-31446-10	500 kcmil	925/24	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		500	1	3	6 3/4	2 3/4	3 1/2	112H
251-31446-12	750 kcmil	1325/24	2	4	7 3/4	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

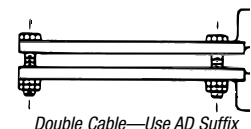
Styles shown have cable tap on one portion of clamp assembly. Clamp assemblies with cable taps on both portions (top & bottom identical) are also available.

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: pp. F-80–F-100

Die Selector Chart: pp. F-101–F-104



Motor Pigtail Connectors

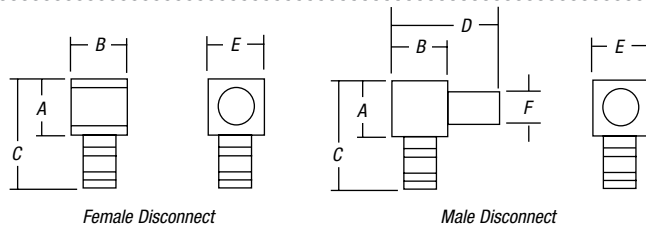
Quick, reliable change-out of electric motors with no bolting, taping or loose connections.

Motor Lead Disconnects

- Complete line of motor lead disconnects for 600V and 5kV applications, covering wire range from #16 AWG through 500 kcmil
- Fast, snap-together assembly offers maximum labor savings
- No need for nuts, bolts and washers or insulating tape — simply slide on reusable boot
- Total assembly fits into tight motor housings
- Quick disconnect — no knife cutting of melted tape, eliminating the risk of accidental cutting of wire insulation, resulting motor downtime and installer exposure
- Meet or exceed electrical and mechanical performance of bolted connections
- Constructed of high-conductivity copper with tin plating
- Female disconnects equipped with beryllium copper interface band for dependable connections



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	3/88
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
MD40F-4	MD40M-4	4/0 AWG	4	PURPLE	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—
MD250F-4	MD250M-4	250 kcmil	4	YELLOW	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—
MD350F-4	MD350M-4	350 kcmil	4	RED	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—
MD500F-4	MD500M-4	500 kcmil	4	BROWN	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Motor Pigtail Connectors

Quick, easy installation!

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

- 1 Choose appropriate Blackburn® 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.



600V Version



5kV Version

Material: High-Conductivity Copper

Plating: Tin

Insulator: Thermoplastic Elastomer



INSTALLING TOOLS

CAT. NO.		WT112M WT111M WT2000 ERG4002	TBM45S	TBM6, TBM6S		TBM5 TBM5S	TBM8 TBM8S	HYDRAULIC TOOLS	
FEMALE DISCONNECT	MALE DISCONNECT			UPPER DIE	LOWER DIE	DIE SET	DIE SET	DIE CODE	COLOR
MD1614F-0	MD1614M-0	BLUE	—	—	—	—	—	—	—
MD1614F-1	MD1614M-1	—	—	—	—	—	—	—	—
MD1210F-1	MD1210M-1	YELLOW	—	—	—	—	—	—	—
MD1210F-2	MD1210M-2	—	—	—	—	—	—	—	—
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
MD40F-4	MD40M-4	—	—	13475	13477	13456	13463	54	PURPLE
MD250F-4	MD250M-4	—	—	13473	13476	13456	13463	62	YELLOW
MD350F-4	MD350M-4	—	—	13472	13476	13458	13466	71H	RED
MD500F-4	MD500M-4	—	—	13478	13478	13458	13468	87H	BROWN

Specifications: Wire Range: #16 to 4/0 AWG

Rating: 600V, 90° C

Tooling: pp. F-80-F-100

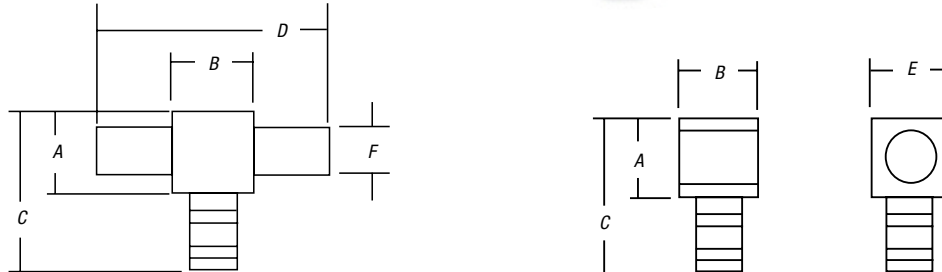
Die Selector Chart: pp. F-101-F-104

Motor Pigtail Connectors

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

- KON-TOUR™ louvered contact bands
- Color coded to match installing dies

Material: High-Conductivity Wrought Copper
Finish: Electro-Tin Plate



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	17/32
MD2F-3	M2D2M-3	#2 AWG	3	BROWN	M2DBOOT-3	.875	.875	1.460	2.630	.875	.50	17/32
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	11/16
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: UL® 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 a #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).

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

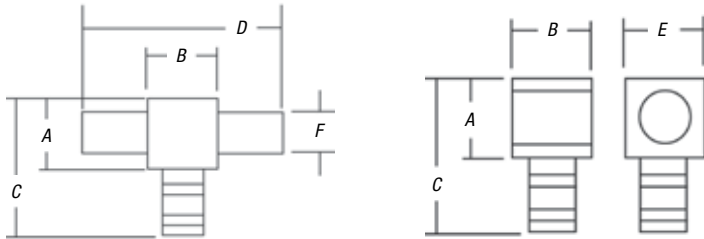
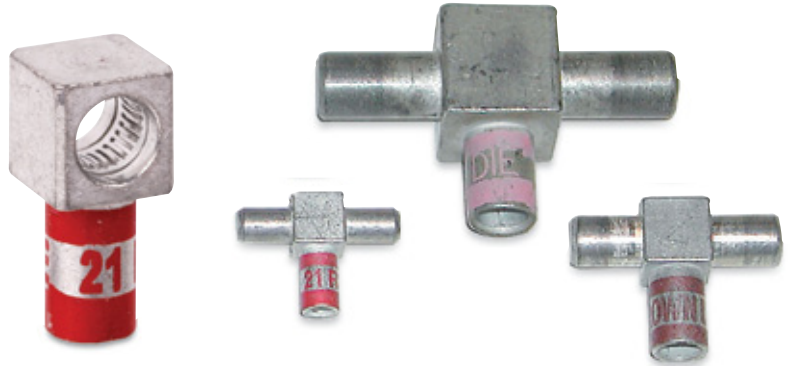
Motor Pigtail Connectors

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

- KON-TOUR™ louvered contact bands
- Color coded to match installing dies

Material: High-Conductivity Wrought Copper

Finish: Electro-Tin Plate



CAT.NO.		INSTALLING TOOLS							
FEMALE DISCONNECT	MALE DISCONNECT	WT112M WT111M ERG4002 WT2000	TBM6 TBM6S			TBM5 TBM5S	TBM8 TBM8S	HYDRAULIC TOOLS	
			TBM25S	UPPER DIE	LOWER DIE	DIE SET	DIE SET	DIE CODE	COLOR
MD1614F-0	M2D1614M-0	BLUE	—	—	—	—	—	—	—
MD1210F-1	M2D1210M-1		—	—	—	—	—	—	—
MD1210F-2	M2D1210M-2		—	—	—	—	—	—	—
MD8F-1	M2D8M-1	YELLOW	X	13475	13477	13454	13461	21	RED
MD8F-2	M2D8M-2		—	X	13475	13477	13454	13461	21
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	PINK
MD30F-3	M2D30M-3	—	—	13474	13477	13455	13462	50	ORANGE
MD40F-3	M2D40M-3	—	—	13475	13477	13456	13463	54	PURPLE

Tooling: pp. F-80-F-100

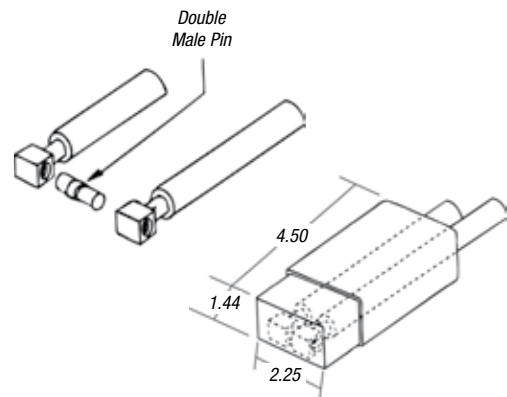
Die Selector Chart: pp. F-101-F-104

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			BODY SIZE
				L	W	H	
5KVB00T-2L	#8	MD8F-2	RED	4.50	2.25	1.44	2
5KVB00T-2L	#6	MD6F-2	BLUE	4.50	2.25	1.44	2
5KVB00T-2L	#4	MD4F-2	GRAY	4.50	2.25	1.44	2
5KVB00T-2L	#2	MD2F-2	BROWN	4.50	2.25	1.44	2
5KVB00T-2L	#1	MD1F-2	GREEN	4.50	2.25	1.44	2
5KVB00T-3L	#2	MD2F-3	BROWN	4.50	2.25	1.44	3
5KVB00T-3L	#1	MD1F-3	GREEN	4.50	2.25	1.44	3
5KVB00T-3L	1/0	MD10F-3	PINK	4.50	2.25	1.44	3
5KVB00T-3L	2/0	MD20F-3	BLACK	4.50	2.25	1.44	3
5KVB00T-3L	3/0	MD30F-3	ORANGE	4.50	2.25	1.44	3
5KVB00T-3L	4/0	MD40F-3	PURPLE	4.50	2.25	1.44	3

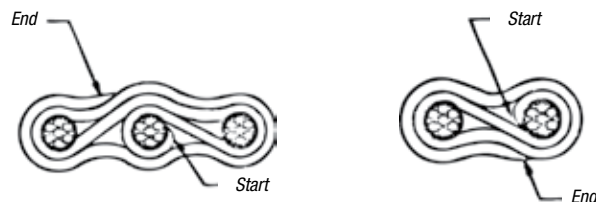


For easy, reliable sealing of motor disconnect boots.

Sealant

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 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.



Specifications

- Description: Polybutene Compound
- Application Temperature: 40° F to 100° F
- Service Temperature: -40° F to 180° F
- Dimensions: Width 1", Thickness 1/8", Length (Std. Roll) 10', wrapped on release liner
- Environmental Resistance: Resists normal aging process
- Chemical Resistance: Resists acids, bases and alcohols
- Dielectric Strength: 200V/mil minimum
- Volume Resistivity: 1013 ohms/cm
- Flame Retardancy: Pass V0 Vertical Flame Test

CAT. NO.	DESCRIPTION
MDBOOT-SEAL	Sealant

For watertight applications, contact technical services.

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

KUBE® Connectors

Make economical, field-constructible, UL® Listed multiple-tap electrical connections!

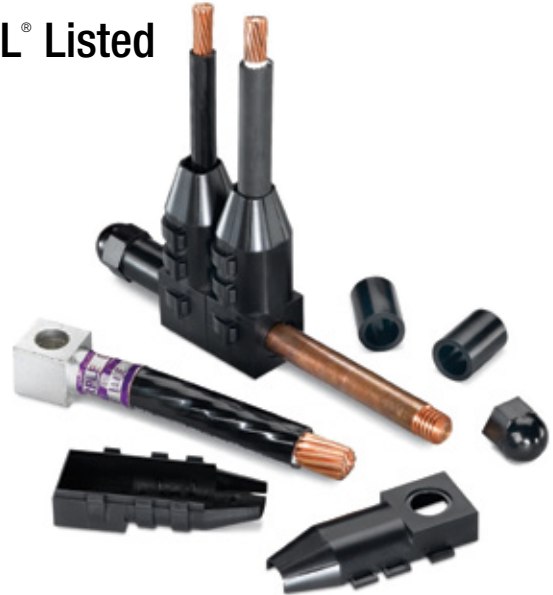
KUBE® Connectors Multi-Tap

Leave it to Thomas & Betts to bring you the most versatile, affordable solution for multiple-load installations from a single main conductor. The KUBE® Multi-Tap system gangs multiple permanent, dependable compression taps mounted on a high-conductivity copper rod to achieve a space- and cost-efficient UL® Listed multiple-tap connection you configure in the field. For even more flexibility, you can rotate connectors individually on the Multi-Tap rod to accommodate the bends and angles necessary to install equipment or complete circuitry — without the high cost of flexible-conductor cable.

- Lowest installed cost for the application — eliminates the need for expensive flexible-conductor cable
- Individual connectors can be rotated 360° on rod for multi-directional connections
- Versatile, modular design supports a myriad of connection possibilities
- UL® 486AB Listed and CSA Certified for field installation
- Compression connections maintain integrity even under vibration and high temperatures
- Supports wire sizes from #16 to 4/0 AWG
- Suitable for applications up to 600 volts (1000 volts in signs and fixtures)
- Rods constructed of high-conductivity copper with corrosion-resistant tin plating
- Connectors constructed of electro-tin plated high conductivity copper with louvered contact bands for reliable connections and color coding for easy selection of crimping die
- Two-piece, UL94-V0-rated, polycarbonate insulators snap onto connectors easily for fast, safe installation

Typical Applications

- Commercial construction
- Specialized installations for entertainment applications
- Gutter taps for all applications
- Any other application requiring the running of multiple loads from a main conductor



This Multi-Tap installation connects 4/0, #1 and #2 AWG cables using MD40F-3, MD1F-3 and MD2F-3 connectors with REC-3 insulators on an R3-6 rod.



KUBE® Connectors

KUBE® Multi-Tap makes field installation fast and easy.

How to Order KUBE® Multi-Tap

- Choose your connectors. Note that connectors to be mounted on a single Multi-Tap rod can be for different wire sizes but must be of the same body size.
- Choose insulators of the appropriate body size for the connectors. (One insulator required for each connector.)
- Choose a Multi-Tap rod that matches the body size of your connectors and that has enough positions for the number of connections you need.



1. Crimp Multi-Tap connectors onto de-energized cables.



2. Snap Multi-Tap insulators over connectors.



3. Remove one end nut and spacers from Multi-Tap rod.



4. Slide connector/insulator assemblies onto rod.



5. If any rod positions remain empty, slide on appropriate number of spacers to fill rod.



6. Reapply end nut and tighten.

KUBE® Multi-Tap Connectors



CAT. NO.	WIRE SIZE	BODY SIZE	COLOR CODE
MD1614F-0	#16-#14 AWG	0	BLUE
MD1614F-1	#16-#14 AWG	1	BLUE
MD1210F-1	#12-#10 AWG	1	YELLOW
MD1210F-2	#12-#10 AWG	2	YELLOW
MD8F-1	#8 AWG	1	RED
MD8F-2	#8 AWG	2	RED
MD6F-1	#6 AWG	1	BLUE
MD6F-2	#6 AWG	2	BLUE
MD4F-2	#4 AWG	2	GRAY
MD2F-2	#2 AWG	2	BROWN
MD2F-3	#2 AWG	3	BROWN
MD1F-2	#1 AWG	2	GREEN
MD1F-3	#1 AWG	3	GREEN
MD10F-3	1/0 AWG	3	PINK
MD20F-3	2/0 AWG	3	BLACK
MD30F-3	3/0 AWG	3	ORANGE
MD40F-3	4/0 AWG	3	PURPLE

Please note that these connectors are the same as our female motor pigtail connectors. For more information on dimensions, compression tool selection and required strip length, see pages F-53-F-56.

KUBE® Multi-Tap Insulators

One insulator required for each connector.



CAT. NO.	FOR CONNECTOR BODY SIZE
REC-0	0
REC-1	1
REC-2	2
REC-3	3

KUBE® Multi-Tap Rods

Includes rod with spacers and end nuts. Rod positions indicate the maximum number of connectors the rod can hold. Spacers are provided to fill any unused positions left open for future connections. Body size of connectors, insulators and rod must match.

CAT. NO.	FOR CONNECTOR BODY SIZE	NO. OF ROD POSITIONS
R0-4	0	4
R0-6	0	6
R0-8	0	8
R0-10	0	10
R0-12	0	12
R1-4	1	4
R1-6	1	6
R1-8	1	8
R1-10	1	10
R1-12	1	12
R2-4	2	4
R2-6	2	6
R2-8	2	8
R2-10	2	10
R2-12	2	12
R3-4	3	4
R3-6	3	6
R3-8	3	8
R3-10	3	10
R3-12	3	12

KUBE® Connectors

A cost-saving breakthrough in 90°, T and cross connections. KUBE® Flag, Tee and Cross Connectors

Finally there's a fast, easy and affordable way to make those 90°, T and cross electrical connections whenever and wherever you need them. Blackburn® Flags, Tees and Crosses are designed — and UL®/CSA approved — to be used with standard Blackburn® lugs and splices featuring the Color-Keyed® system in field-assembled configurations.

Now you don't need to use high-cost flexible conductor for connections requiring 90° bending radius or expensive brazed or welded connectors for T or cross connections!

- Offers lowest installed cost for the application
- Versatile, modular design enables thousands of field-constructible connection possibilities, including multi-circuit configurations
- Insulated for fast, safe termination and installation
- Used with standard Blackburn® lugs and splices featuring the Color-Keyed® system
- Color coded for easy selection of correct crimping die and easy verification of proper crimp



.....Specifications.....

- Connector: Tin-plated copper
- Insulation: Halogen-free polypropylene
- Standards: UL 486, CSA 22.2 #65

Flags, Tees and Crosses



CAT. NO.	WIRE SIZE (AWG)	INSULATOR	STD. PKG. QTY.
Flags			
FLAG1614	#16-#14	F-INSUL-0	20
FLAG1210	#12-#10	F-INSUL-0	10
FLAG8	#8	F-INSUL-1	10
FLAG6	#6	F-INSUL-1	10
FLAG4	#4	F-INSUL-2	6
FLAG2	#2	F-INSUL-2	6
FLAG1	#1	F-INSUL-2	6
FLAG10	1/0	F-INSUL-3	3
FLAG20	2/0	F-INSUL-3	3
FLAG30	3/0	F-INSUL-3	3
FLAG40	4/0	F-INSUL-3	3
FLAG250	250 kcmil	F-INSUL-4	3/15
FLAG350	350 kcmil	F-INSUL-4	3/15
FLAG500	500 kcmil	F-INSUL-4	3/15
Tees			
TEE1614	#16-#14	—	20
TEE1210	#12-#10	—	10
TEE8	#8	—	3
TEE6	#6	—	10
TEE4	#4	—	6
TEE2	#2	—	6
TEE1	#1	—	6
TEE10	1/0	—	3
TEE20	2/0	—	3
TEE30	3/0	—	3
TEE40	4/0	—	3
TEE250	250 kcmil	—	3/15
TEE350	350 kcmil	—	3/15
TEE500	500 kcmil	—	3/15
Crosses			
CROSS1614	#16-#14	—	20/200
CROSS1210	#12-#10	—	10/100
CROSS8	#8	—	10/100
CROSS6	#6	—	10/100
CROSS4	#4	—	6/60
CROSS2	#2	—	6/60
CROSS1	#1	—	6/60
CROSS10	1/0	—	3/30
CROSS20	2/0	—	3/30
CROSS30	3/0	—	3/30
CROSS40	4/0	—	3/30

Flag and Tee Kit Contents:

- Steel carrying case
- TBM25S crimp tool
- 25 each #8, #6 and #4 AWG flag bodies
- 25 each #8, #6 and #4 AWG one-hole lugs
- 10 each #2, #1, 1/0, 2/0, 3/0 and 4/0 AWG flag bodies
- 10 each #2, #1, 1/0, 2/0, 3/0 and 4/0 AWG one-hole lugs
- 50 size 1 flag insulators
- 45 size 2 flag insulators
- 40 size 3 flag insulators
- 10 each #8 and #6 AWG tee bodies
- 20 each #8 and #6 AWG two-way splices
- 6 each #4, #2 and #1 AWG tee bodies
- 12 each #4, #2 and #1 AWG two-way splices
- 3 each 1/0, 2/0, 3/0 and 4/0 AWG tee bodies
- 6 each 1/0, 2/0, 3/0 and 4/0 AWG two-way splices

Flag Insulators

CAT. NO.	DESCRIPTION	STD. PKG. QTY.
F-INSUL-0	For #16-#10 AWG	20/200
F-INSUL-1	For #8, #6 AWG	10/100
F-INSUL-2	For #4, #2, #1 AWG	6/60
F-INSUL-3	For 1/0, 2/0, 3/0, 4/0 AWG	3/30
F-INSUL-4	For 250, 350, 500 kcmil	10/50

Flag and Tee Kit

CAT. NO.	DESCRIPTION	STD. PKG. QTY.
FLAGTEEKIT	Flag and Tee Kit	1

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Copper Disconnects

Making connections for high-amperage loads has never been easier!

High-Amperage Quick Power Disconnects

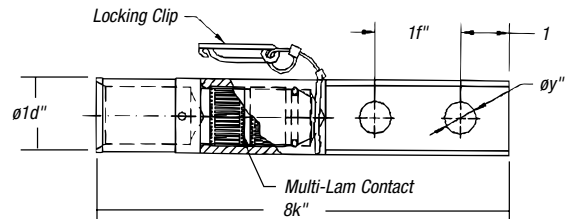
- Designed to be the fastest "off-load" connection possible, while maintaining system integrity
- Uses a multicontact approach to provide low insertion and extraction forces with low resistance and temperature rise
- Enables multiple connections and disconnections without changing or degrading performance characteristics
- Unique construction:
 - Made from 99.9% conductive copper, silver plated
 - Contact design features louvered band of beryllium copper
 - All raised edges of 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, make contact interface even more efficient by increasing contact pressure



CAT. NO.		DIE CONDUCTOR	CODE
MALE	FEMALE		
272-32175M	272-32175F	777 kcmil	115
Future Design	—	646 kcmil	—
Future Design	—	535 kcmil	—
Future Design	—	444 kcmil	—

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104



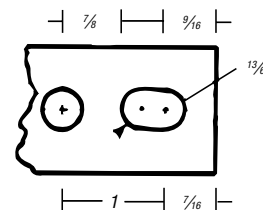
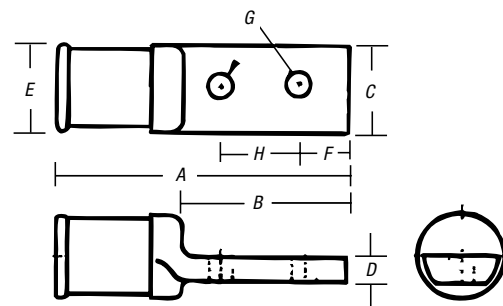
T&B Method Traction Motor Disconnect Lugs for Diesel-Electric Locomotives

CAT. NO.	CABLE SIZE	DIMENSIONS				E APPROX. (IN.)	BOLT SIZE			DIE CODE
		A	B	C	D		F	G	H	
MD37	37/24	2 ¹ / ₁₆	1 ³ / ₄	1 ⁹ / ₃₂	5 ¹ / ₃₂	3 ¹ / ₈	5 ¹ / ₁₆	7 ¹ / ₈	26	
MDD61	61/24	2 ¹ / ₁₆	1 ³ / ₄	1 ⁹ / ₃₂	5 ¹ / ₃₂	3 ¹ / ₈	5 ¹ / ₁₆	7 ¹ / ₈	26	
MD 105	105/24	2 ⁵ / ₁₆	1 ³ / ₄	1 ⁹ / ₃₂	5 ¹ / ₃₂	7 ¹ / ₁₆	3 ¹ / ₈	5 ¹ / ₁₆	33	
MD 105	91/24	2 ⁵ / ₁₆	1 ³ / ₄	1 ⁹ / ₃₂	5 ¹ / ₃₂	7 ¹ / ₁₆	3 ¹ / ₈	5 ¹ / ₁₆	33	
MD 125	125/24	2 ⁵ / ₁₆	1 ³ / ₄	1 ⁹ / ₃₂	5 ¹ / ₃₂	7 ¹ / ₁₆	3 ¹ / ₈	5 ¹ / ₁₆	33	
MD 150	150/24	2 ¹⁵ / ₁₆	1 ⁷ / ₈	1 ⁹ / ₃₂	.203	5 ¹ / ₈	7 ¹ / ₁₆	5 ¹ / ₁₆	45	
MD 175	175/24	2 ¹⁵ / ₁₆	1 ⁷ / ₈	1 ⁹ / ₃₂	.203	5 ¹ / ₈	7 ¹ / ₁₆	5 ¹ / ₁₆	45	
MD 225	225/24	3	1 ⁷ / ₈	1 ¹¹ / ₁₆	.203	2 ³ / ₃₂	7 ¹ / ₁₆	5 ¹ / ₁₆	54	
MD 275	275/24	3	1 ⁷ / ₈	1 ¹¹ / ₁₆	.203	2 ³ / ₃₂	7 ¹ / ₁₆	5 ¹ / ₁₆	54	
MD 325	325/24	3	1 ⁷ / ₈	1 ¹¹ / ₁₆	.203	2 ³ / ₃₂	7 ¹ / ₁₆	5 ¹ / ₁₆	54	
MD 375	375/24	3 ¹ / ₈	2	2 ⁵ / ₃₂	.203	2 ³ / ₃₂	7 ¹ / ₁₆	5 ¹ / ₁₆	60	
MD 450	450/24	3 ¹ / ₈	2	2 ⁵ / ₃₂	.203	2 ³ / ₃₂	7 ¹ / ₁₆	5 ¹ / ₁₆	60	
MD 550	550/24	3 ³ / ₁₆	1 ⁷ / ₈	1 ⁵ / ₁₆	.203	1	7 ¹ / ₁₆	5 ¹ / ₁₆	76	
MD 650	650/24	3 ³ / ₁₆	1 ⁷ / ₈	1 ⁵ / ₁₆	.203	1	7 ¹ / ₁₆	5 ¹ / ₁₆	76	
MD 775	775/24	3 ³ / ₁₆	1 ⁷ / ₈	1 ⁵ / ₁₆	.203	1	7 ¹ / ₁₆	5 ¹ / ₁₆	76	
MD 925	925/24	3 ³ / ₄	2 ¹ / ₁₆	1 ¹ / ₈	.375	1 ¹ / ₃₂	7 ¹ / ₁₆	3 ¹ / ₈	87	
MD 1100	1100/24	3 ³ / ₄	2 ¹ / ₁₆	1 ¹¹ / ₃₂	.375	1 ³ / ₈	7 ¹ / ₁₆	3 ¹ / ₈	107	
MD 1325	1325/24	3 ²⁵ / ₃₂	2 ³ / ₃₂	1 ¹ / ₃₂	.375	1 ¹ / ₄	7 ¹ / ₁₆	3 ¹ / ₈	107	
MD 1600	1600/24	3 ³ / ₄	2 ¹ / ₁₆	1 ¹¹ / ₃₂	.375	1 ³ / ₈	7 ¹ / ₁₆	3 ¹ / ₈	107	
MD 1925*	1925/24	4 ¹ / ₁₆	2 ³ / ₃₂	1 ¹¹ / ₃₂	.375	1 ¹ / ₂	7 ¹ / ₁₆	3 ¹ / ₈	115	
MD 2300	2300/24	4 ³ / ₈	2 ¹ / ₈	1 ¹⁹ / ₃₂	.375	1 ² / ₃₂	7 ¹ / ₁₆	3 ¹ / ₈	130	

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

* MD 1925 supplied with elongated bolt hole.

Tooling: pp. F-80-F-100 Die Selector Chart: pp. F-101-F-104



Connector Kits

Connector Kit for Copper Cables

CAT. NO.	DESCRIPTION	STD. PKG.	WT. EACH
TBM2K-1	Color-Keyed® Connector Kit	1	12

Kit Includes

CAT. NO.	ITEMS	CABLE SIZE		QTY.
54104	One-Hole Lugs	#8		25
54105	One-Hole Lugs	#6		25
54106	One-Hole Lugs	#4		15
54107	One-Hole Lugs	#2, #3		10
54504	2-Way Splice Connectors	#8		15
54505	2-Way Splice	#6		15
54506	2-Way Splice	#4		10
54507	2-Way Splice	#2		5
		MIN.	MAX.	
54610	Pigtails	3-#12	#4-#12	15
54615	Pigtails	#4-#12	#4-#10	15
54620	Pigtails	#3-#8	#1-#4	15
		#10	#10	
54710	C-Taps	#8	#12	15
		#6	#10-#12	
54615	C-Taps	#8	#8-#10	15
		#4 or #5	#8-#10-#12	
54720	C-Taps	#6	#6-#8	
TBM20S OR TBM45S	Manual Crimp Tool	#8	#2	1

UL not applicable



Carrying Cases

MDPWK12 Case Contents

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

MDPWK23 Case Contents

(1) PWK1	(6) MD1210F-2	(3) MD2M-3	(3) MD2F-3	(6) MD1M-2
(6) MD1210M-2	(6) MD8F-2	(3) MD1M-3	(3) MD1F-3	(36) MDBOOT-2
(6) MD8M-2	(6) MD6F-2	(3) MD10M-3	(3) MD10F-3	(18) MDBOOT-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	

MDKITL Case Contents

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

CAT. NO.	DESCRIPTION
PWK1	Empty case — includes wall chart; make up your own selection of Blackburn® lugs, splices, taps or motor disconnects featuring the Color-Keyed® system.
PWK4	Metal cabinet that holds four of the PWK1 shells that slide out for easy removal.
MDPWK12	Selection of size 1 and 2 male and female motor disconnects plus insulators; to connect 60 single line to single 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 load motor leads, #12 AWG through #4/0 AWG; tools not included. Size 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.



MDKITL

Joint Compound

Copper colloidal surface treatment protects, lubricates and enhances conductivity of all electrical connections.

Kopr-Shield® Joint Compound

- Unique, homogenized blend of pure, polished colloidal copper, rust and corrosion inhibitors
- Simultaneously protects, lubricates and enhances conductivity of mating surfaces
- Extremely adhesive compound flows smoothly into uneven contours and voids, ensuring easy application and complete, positive protection and lubrication
- Won't settle-out, thin, thicken, harden or dry out under the most severe environmental conditions
- Excellent temperature characteristics — can be brushed on at -50° F to 250° F (other compounds either turn solid or run like water at these extremes) and remains intact at short terms even at 1,800° F

Good connections are one of the most important aspects of electrical work. Mechanics know how much downtime is caused when fluids or oils leak into the raceway system or when they have to look 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 scourage" buildup. 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 may be used to your advantage in all electrical installations. When the environment is hostile to electrical and mechanical connections, Kopr-Shield® Compound is a must!



CAT. NO.	DESCRIPTION	STD. PKG.	WT. LBS./C
201-31879	1½-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; ensures a low resistance contact and seals out air and moisture.
AP8	8-oz. Brush Cap Can	
M53	5-Gallon Can	

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

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



Use Kopr-Shield® Compound for battery lugs and cables to:

- Prevent "green scourage" corrosion
- Reduce resistance
- Ease terminal installation and removal

Use Kopr-Shield® Compound for raceways to:

- Lubricate for ease of assembly and disassembly
- Improve grounding continuity (exceeds code requirements)

Use Kopr-Shield® Compound for fuse clips to:

- Eliminate hot spots for even heat distribution
- Prevent oxidation by preventing carbon path formation
- Lubricate for easy installation and removal of fuses

Use Kopr-Shield® Compound for wiping contacts, drum switches and slip rings to:

- Prevent galling, burning, pitting and discoloration
- Suppress arcing and dissipation of coronas
- Lubricate for ease of operation



Connectors for Aluminum/Copper Code Conductor

For tight, secure bus-bar connections.

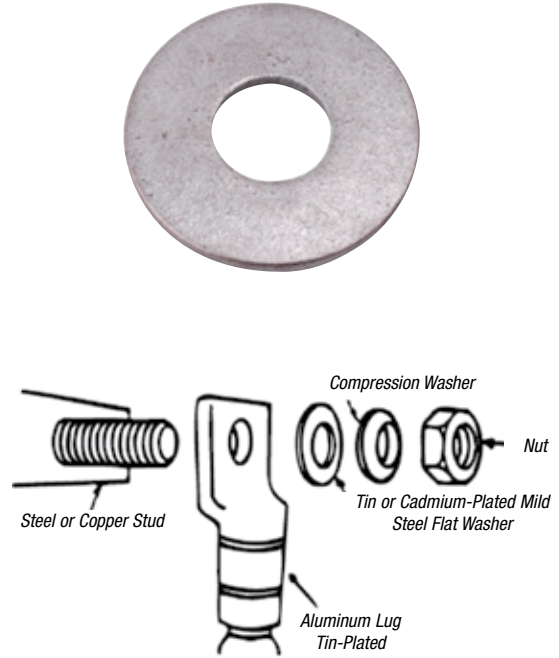
Belleville Compression Washers

- Essential when bolting aluminum lugs and connectors to bus bars with steel or brass hardware
- Maintains constant pressure in heavy-duty, high-temperature applications
- Available with or without flat washer

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.

CAT. NO.	BOLT SIZE (IN.)	DIMENSIONS (IN.)			
		FLAT WASHER		BELLEVILLE WASHER	
		A	B	C	D
Belleville Compression Washers Plus Flat Washer					
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
Belleville Compression Washer Only					
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	3/4	—	—	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.

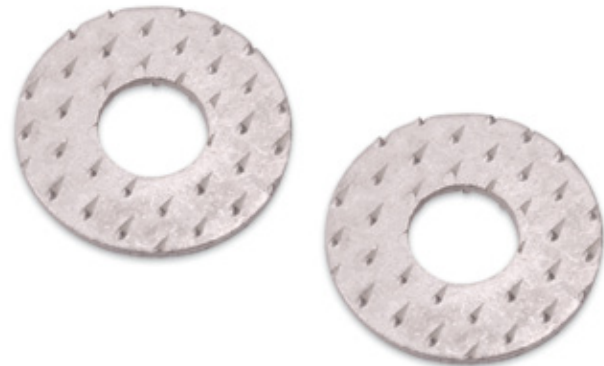


Quick, dependable and versatile.

Dragon Tooth® Transition Washers

- Connect copper-to-aluminum, copper-to-copper or aluminum-to-aluminum component
- Toothed surface penetrates aluminum and copper oxides
- Lower installed cost — no need to grind aluminum surfaces, apply compounds or use spring-type washers

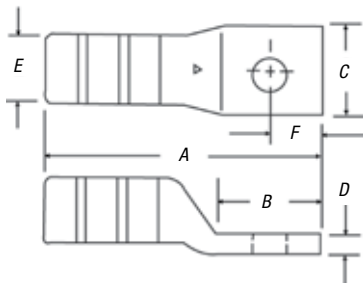
CAT. NO.	SIZE (IN.)	BOLT TORQUE IN LBS.
DTW14	1/4	50–80
DTW516	5/16	125–160
DTW38	3/8	160–240
DTW12	1/2	390–540
DTW58	5/8	540–730



Connectors for Aluminum/Copper Code Conductor

Perform equally well on both aluminum and copper conductors.

One-Hole Lugs



- For 90° C, 600V to 35kV applications
- Easily matched to the correct Blackburn[®] installing die featuring the Color-Keyed[®] system for positive compressions
- Hardened steel dies compress connector around cable, changing round strands to polygonal shapes and cold flowing strands and connector into a solid, homogenous mass
- Long compression areas ensure complete contact
- Multiple compressions prevent creep of aluminum conductors
- Filled with high-temperature oxide-inhibitor compound
- Electro-tin plating prevents electrolytic corrosion of copper to ensure lowest contact resistance

Material: High-Conductivity Wrought Aluminum

Finish: Electro-Tin Plate

CAT. NO.	CABLE SIZE AL/CU	BOLT SIZE (IN.)	DIMENSIONS						COLOR CODE	DIE CODE
			A	B	C	D	E	F		
60096		#10	1.09	.56	.41	.06	.270	.22		
60097	#10 AWG	¼	1.31	.72	.43	.07	.270	.34	21	RED
60099		⅜	1.53	.93	.58	.06	.270	.44		
60101		#10	1.22	.56	.41	.09	.280	.22		
60102	#8 AWG	¼	1.38	.71	.44	.09	.280	.34	24	BLUE
60103		⅝	1.56	.91	.60	.06	.280	.44		
60104-TB		⅜	1.60	.93	.60	.06	.280	.44		
60106		#10	1.52	.59	.47	.13	.350	.22		
60107	#6 AWG	¼	1.67	.75	.47	.13	.350	.34	29	GRAY
60108		⅝	1.83	.91	.63	.09	.350	.44		
60109		⅜	1.86	.93	.63	.09	.350	.44		
60112		¼	1.81	.75	.64	.19	.460	.34		
60113	#4 AWG	⅝	2.00	.91	.64	.19	.460	.44	37	GREEN
60114		⅜	2.03	.93	.64	.19	.460	.44		
60116		¼	1.91	.75	.72	.19	.510	.34		
60117	#2 AWG	⅝	2.06	.91	.72	.19	.510	.44	42	PINK
60118		⅜	2.09	.93	.72	.19	.510	.44		
60120		½	2.25	1.41	.88	.13	.510	.69		
60122		¼	2.30	.81	.75	.19	.560	.34		
60123	#1 AWG	⅝	2.39	.91	.75	.19	.560	.44	45	GOLD
60124		⅜	2.42	.93	.75	.19	.560	.44		
60126		½	2.89	1.41	.88	.16	.560	.69		
60128		¼	2.36	.81	.88	.19	.620	.34		
60129	1/0	⅝	2.51	.97	.88	.19	.620	.44	50	TAN
60130		⅜	2.51	.97	.88	.19	.620	.44		
60132		½	2.95	1.41	.94	.19	.620	.69		
60134		¼	2.48	.87	.97	.22	.700	.34		
60135	2/0	⅝	2.64	1.03	.97	.22	.700	.44	54	OLIVE
60136		⅜	2.64	1.03	.97	.22	.700	.44		
60138		½	3.10	1.41	1.03	.22	.700	.69		
60140		¼	2.58	.87	1.06	.22	.770	.34		
60141	3/0	⅝	2.83	1.09	1.06	.22	.770	.44	60	RUBY
60142		⅜	2.83	1.09	1.06	.22	.770	.44		
60144		½	3.15	1.41	1.06	.22	.770	.69		
60147		⅝	3.53	.88	1.21	.25	.857	.38		
60148	4/0	⅜	3.58	.93	1.21	.25	.857	.38	66	WHITE
60150		½	3.90	1.25	1.21	.25	.857	.50		
60151		⅝	4.65	2.00	1.21	.25	.857	.75		
60154		⅜	3.73	.93	1.29	.27	.917	.38		
60156	250 kcmil	½	4.05	1.25	1.29	.27	.917	.50	71	RED
60157		⅝	4.80	2.00	1.29	.27	.917	.75		
60159		⅝	3.75	.88	1.39	.28	.990	.38		
60160	300 kcmil	⅝	3.80	.93	1.39	.28	.990	.38	76	BLUE
60162		½	4.13	1.25	1.39	.28	.990	.50		
60165		½	4.83	1.25	1.53	.33	1.090	.50		
60166	350 kcmil	⅝	5.58	2.00	1.53	.33	1.090	.75	87	BROWN
60168	400 kcmil	½	4.95	1.25	1.65	.38	1.180	.50	94	GREEN
60171		½	4.95	1.25	1.79	.38	1.280	.50	99	PINK
60172	500 kcmil	⅝	5.70	2.00	1.79	.38	1.280	.75		
60174	600 kcmil	⅝	5.83	2.00	1.92	.37	1.360	.75	106	BLACK
60176	700 kcmil	⅝	5.95	2.00	2.04	.38	1.440	.75	112	PURPLE
60178	750 kcmil	⅝	6.03	2.00	2.13	.40	1.500	.75	115	YELLOW
60184	1000 kcmil	⅝	6.78	2.00	2.50	.50	1.770	.75	140	N/A

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Connectors & Grounding — Blackburn[®] Compression Connectors Featuring the Color-Keyed[®] System

Connectors for Aluminum/Copper Code Conductor

Designed and approved for use with both aluminum and copper conductors.

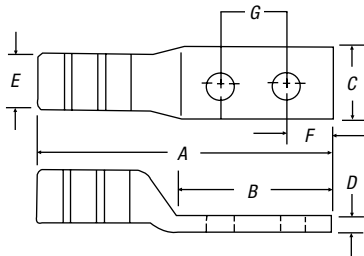


Two-Hole Lugs



- For 90° C, 600V to 35kV applications
- For aluminum and copper concentric conductors and compact code aluminum strandings
- Filled with oxide-inhibitor compound

Material: High-Conductivity Wrought Aluminum
Finish: Electro-Tin Plate



CAT. NO.	CABLE SIZE	BOLT SIZE (IN.)	DIMENSIONS (IN.)							DIE CODE	COLOR CODE
			A	B	C	D	E	F	G		
60230	1/0 AWG	3/8	3.50	1.90	.880	.19	.62	.38	1.00	50	TAN
60236	2/0 AWG	3/8	3.50	1.90	.970	.22	.70	.38	1.00	54	OLIVE
60238	2/0 AWG	1/2	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	60	RUBY
60244	3/0 AWG	1/2	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	66	WHITE
60250	4/0 AWG	1/2	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	71	RED
60256	250 kcmil	1/2	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	76	BLUE
60262	300 kcmil	1/2	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	87	BROWN
60267	350 kcmil	1/2	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	94	GREEN
60269	400 kcmil	1/2	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	99	PINK
60273	500 kcmil	1/2	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	106	BLACK
60275	600 kcmil	1/2	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	112	PURPLE
60277	700 kcmil	1/2	6.95	3.00	2.040	.38	1.44	.50	1.75		
60278*	750 kcmil	1/2	7.15	3.00	2.130	.40	1.50	.50	1.75	115	YELLOW
60284	1000 kcmil	1/2	7.78	3.00	2.500	.50	1.77	.50	1.75	140	N/A

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

* Cat. No. 60278 is also UL® Listed for 900 Compact.

Wire barrel factory-filled with oxide-inhibiting compound.

Range-Taking Narrow-Tongue Single-Barrel Lugs

- For 90° C, 600V to 35kV applications
- 1 1/2"-wide tongues
- Bolt holes on 1 3/4" centers

Material: Aluminum
Finish: Electro-Tin Plate



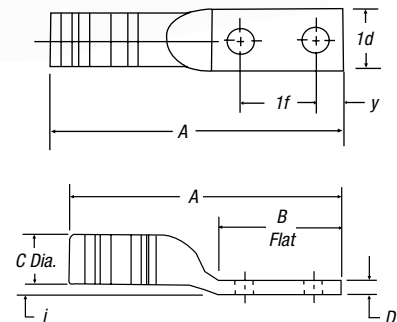
CAT. NO.	AL-CU CABLE RANGE	BOLT SIZE	NO. OF COMPRESSIONS		DIMENSIONS (IN.)				HEX DIE NO.	COLOR CODE
			TBM12M	13642, TBM15	A	B	C	D		
60273N	350–500 kcmil	1/2"	4	4	6 7/8	3 3/8	1 9/32	1 3/32	99H	PINK
60278N	500–750 kcmil	1/2"	—	4	7 7/8	3 11/16	1 1/2	1/2	115H	YELLOW

* 90° C, 600V to 35kV applications

All lugs have 1 1/2"-wide tongues. Bolt holes on 1 3/4" centers.

Tooling: pp. F-80–F-100

Die Selector Chart: pp. F-101–F-104

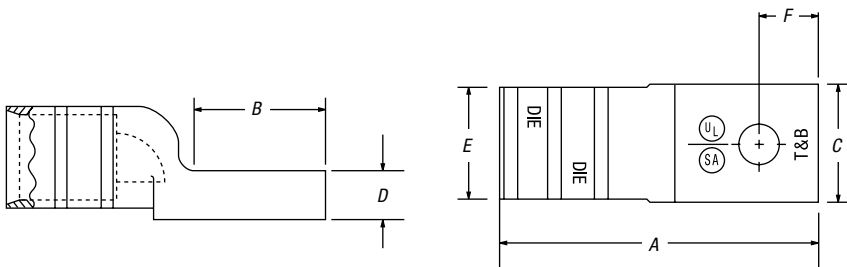
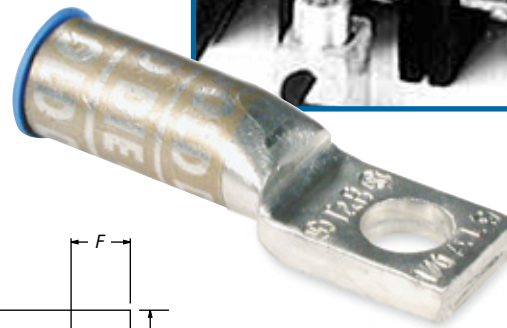
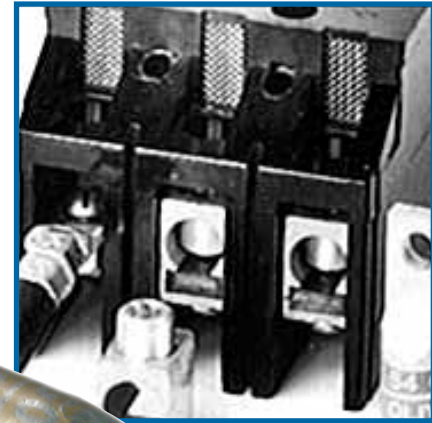


Connectors for Aluminum/Copper Code Conductor

Much smaller than standard aluminum lugs for the same cable size.

One-Hole Aluminum Compact-Size Equipment Lug

- For 90° C, 600V applications
- For use with aluminum cables only
- Can be directly substituted for equipment mechanical lugs in most applications
- Only seven dies handle all 14 lug sizes
- Factory-filled with joint compound
- Electro-tin plated
- Supplied with Neoprene insulating covers



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 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: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Connectors for Aluminum/Copper Code Conductor

For aluminum-to-copper, aluminum-to-aluminum or copper-to-copper splicing.



Two-Way Splice Connectors



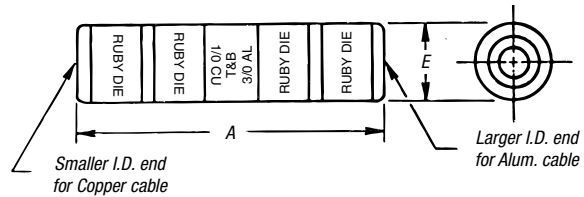
- For 90° C, 600V to 35kV applications
- For aluminum and copper concentric conductors and compact code aluminum strandings
- Permit aluminum conductors to be spliced to copper or aluminum conductors

Material: High-Conductivity Wrought Aluminum

Finish: Electro-Tin Plate

CAT. NO.	CONDUCTOR CODE	DIMENSIONS (IN.)		DIE CODE	COLOR CODE
		A	E		
60500	#10 Str. AWG	1.00	.27	21	RED
60501	#8 Str. AWG	1.19	.28	24	BLUE
60507	#6 Str. AWG	1.63	.35	29	GRAY
60512	#4 Str. AWG	1.81	.46	37	GREEN
60516	#2 Str. AWG/#3 Str. AWG	1.81	.51	42	PINK
60522	#1 Str. AWG	2.38	.56	45	GOLD
60530	1/0 AWG	2.38	.62	50	TAN
60536	2/0 AWG	2.50	.70	54	OLIVE
60542	3/0 AWG	2.81	.77	60	RUBY
60548	4/0 AWG	3.66	.86	66	WHITE
60554	250 kcmil	3.91	.92	71	RED
60560	300 kcmil	3.97	.99	76	BLUE
60565	350 kcmil	4.97	1.09	87	BROWN
60568	400 kcmil	4.97	1.18	94	GREEN
60571	500 kcmil	4.97	1.28	99	PINK
60574	600 kcmil	5.22	1.36	106	BLACK
60576	700 kcmil	5.44	1.44	112	PURPLE
60578	750 kcmil/900 compact	5.69	1.50	115	YELLOW
60584	1000 kcmil	6.69	1.77	140	—

Splice aluminum conductors to copper conductors of equal ampacities.



Aluminum Reducing Connectors



- For 90° C, 600V applications
- Filled with high-temperature oxide-inhibiting compound
- Designed for the right combination of equivalent sizes (Example: 4/0 AWG aluminum to 2/0 AWG copper)
- Selection table gives aluminum/copper equivalents for all sizes

Material: High-Conductivity Wrought Aluminum

Finish: Electro-Tin Plate

CAT. NO.	CABLE SIZE		DIMENSIONS (IN.)		DIE CODE	COLOR KEY
	ALUMINUM	COPPER	A	E		
60905	#8 AWG	#10 AWG	1 ³ / ₁₆	9 ⁵ / ₃₂	24	BLUE
60910	#6 AWG	#8 AWG	1 ¹ / ₈	1 ¹ / ₃₂	29	GRAY
60915	#4 AWG	#6 AWG	1 ¹³ / ₁₆	7 ¹ / ₁₆	37	GREEN
60925	#1 AWG	#3 AWG	2 ³ / ₈	1 ¹ / ₃₂	45	GOLD
60930	1/0 AWG	#2 AWG	2 ³ / ₈	5 ¹ / ₈	50	TAN
60935	2/0 AWG	#1 AWG	2 ¹ / ₂	1 ¹ / ₁₆	54	OLIVE
60940	3/0 AWG	1/0 AWG	2 ¹³ / ₁₆	3 ³ / ₄	60	RUBY
60945	4/0 AWG	2/0 AWG	3 ³ / ₄	7 ¹ / ₈	66H	WHITE
60950	250 kcmil	3/0 AWG	4	1 ⁵ / ₁₆	71H	RED
60955	300 kcmil	4/0 AWG	4 ¹ / ₁₆	1	76H	BLUE
60960	350 kcmil	4/0 AWG	5 ¹ / ₁₆	3 ⁵ / ₃₂	87H	BROWN
60965	400 kcmil	250 kcmil	5 ¹ / ₁₆	1 ¹ / ₃₂	94H	GREEN
60970	500 kcmil	350 kcmil	5 ¹ / ₁₆	1 ³ / ₁₆	99H	PINK
60975	600 kcmil	400 kcmil	5 ¹ / ₁₆	1 ¹¹ / ₃₂	106H	BLACK
60980	700 kcmil	500 kcmil	5 ⁹ / ₁₆	1 ¹ / ₁₆	112H	PURPLE
60985	750 kcmil	500 kcmil	5 ¹³ / ₁₆	1 ¹ / ₂	115H	YELLOW

Selection table gives aluminum/copper equivalents for all sizes.

Connectors are filled with a high-temperature oxide-inhibiting compound.

Tooling: **pp. F-80-F-100**

Die Selector Chart: **pp. F-101-F-104**

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

Connectors for Aluminum/Copper Code Connector

Everything you need to connect to a transformer in one convenient kit.

Transformer Lug Kits

- For 90° C, 600V applications
- For use with aluminum cables only
- Include all necessary range-taking compression or mechanical type lugs and bolting hardware to connect to designated transformers



TRANSFORMER		TERMINAL LUGS			KIT CONTENTS					STD. PKG.
KVA SIZES	KIT CAT. NO.	AL CABLE RANGE*	QTY.	NUTS	QTY.	BOLTS	QTY.	WASHERS	QTY.	
Compression										
15-37½ 1Ø	611CL-SK1	#8-1/0 AL	8	¼-20	8	¼-20 x 1"	8	FLAT ¼"	8	1
15-45 3Ø		#4-300 kcmil						SPRING ¼"	8	
50-75 1Ø	611CL-SK2	#4-300 kcmil AL	12	¼-20	16	¼-20 x 1"	8	FLAT ¼"	16	1
75-112½ 3Ø								SPRING ¼"	16	
100-167 1Ø	611CL-SK3	#4-300 kcmil AL	3	¼-20	3	¼-20 x ¾"	3	FLAT ¼"	3	1
150-300 3Ø		2/0-500 kcmil AL						SPRING ¼"	3	
100-167 1Ø	611CL-SK3-500	#4-300 kcmil AL	3	¼-20	3	¼-20 x 1"	3	FLAT ¼"	3	1
150-300 3Ø		2/0-500 kcmil AL						SPRING ¼"	3	
500 3Ø	611CL-SK4	#500-750 kcmil AL	29	¾-16	18	¾-16 x 2"	18	FLAT ¾"	18	1
								SPRING ¾"	18	
Mechanical										
15-37½ 1Ø	622ML-SK1	#14-2	8	¼-20	8	¼-20 x ¾"	8	FLAT ¼"	8	1
15-45 3Ø		#6-250 kcmil						SPRING ¼"	8	
50-75 1Ø	622ML-SK2	#6-250 kcmil	12	¼-20	16	¼-20 x ¼"	8	FLAT ¼"	16	1
75-112½ 3Ø								SPRING ¼"	16	
100-167 1Ø	622ML-SK3	#6-250 kcmil	3	¼-20	3	¼-20 x ¾"	3	FLAT ¼"	3	1
150-300 3Ø		350-800 kcmil						SPRING ¼"	3	
500 3Ø	622ML-SK4	350-800 kcmil	29	¾-16	18	¾-16 x 2"	18	FLAT ¾"	18	1
								SPRING ¾"	18	

* To ensure proper range-taking compression on Blackburn® 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: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Connectors for Aluminum/Copper Code Conductor

Converts an aluminum cable into a two-sizes-smaller copper pigtail.

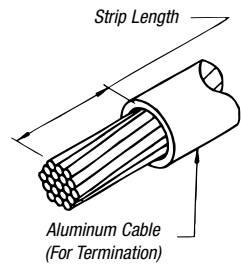
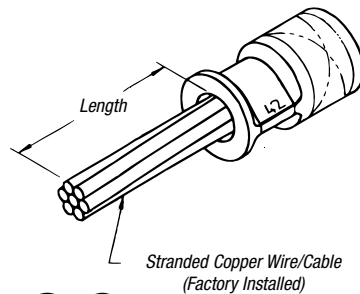
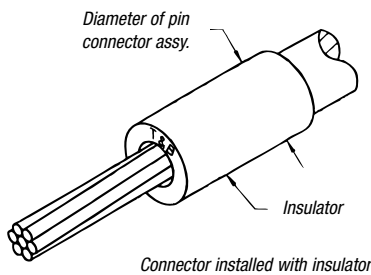
Bi-Pin® Bi-Metal Pin Connectors with Insulating Covers

- For 90° C, 600V applications
- Upgrades connection by eliminating cold flow and oxidation of aluminum
- Reduces oversized aluminum cable
- Enables termination of aluminum cable into a copper-only lug
- Barrel prefilled with joint compound

Material: Copper Wire/Aluminum Body

Finish: Electro-Tin Plate

Insulator: Neoprene (600V dielectric rating)



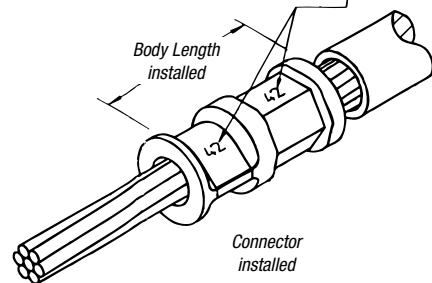
CAT. NO.	ALUM. CABLE SIZE	COPPER WIRE SIZE	BODY LENGTH AFTER INSTALLING (IN.)	DIE CODE NO.	COLOR KEY
61905A	#8 AWG	#10 AWG	1 $\frac{1}{8}$	24	BLUE
61910A	#6 AWG	#8 AWG	1 $\frac{1}{8}$	24	GOLD
61915A	#4 AWG	#6 AWG	1 $\frac{1}{8}$	45	
61920A	#2 AWG	#4 AWG	1 $\frac{1}{8}$	45	ORANGE
61925A	#1 AWG	#3 AWG	1 $\frac{1}{8}$	50	
61930A	1/0 AWG	#2 AWG	1 $\frac{1}{8}$	50	RUBY
61935	2/0 AWG	#1 AWG	1 $\frac{15}{16}$	50	
61940	3/0 AWG	1/0 AWG	2 $\frac{1}{8}$	60	WHITE
61945	4/0 AWG	2/0 AWG	2 $\frac{1}{8}$	60	
61950	250 kcmil	3/0 AWG	2 $\frac{3}{16}$	66	RED
61955	300 kcmil	4/0 AWG	2 $\frac{1}{2}$	71H	
61960	350 kcmil	250 kcmil	2 $\frac{1}{2}$	71H	BROWN
61963	400 kcmil	250 kcmil	3 $\frac{3}{4}$	87H	
61965	500 kcmil	350 kcmil	3 $\frac{3}{4}$	87H	ORANGE
61970	600 kcmil	400 kcmil	3 $\frac{3}{4}$	107H	
61975	700–750 kcmil	500 kcmil	3 $\frac{3}{4}$	107H	

Hand Tools — Smart® Tool

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

To inspect installation:
Match the installing dies to the pin connector permanent embossing.
(For tools with code embossing dies)



Connectors for Aluminum/Copper Code Conductor

90° Flag Lugs — 600V, 90° C

Material: Aluminum
Finish: Electro-Tin Plate
Insulation: PVC Dip Coated

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								
			2	2.13	.94	.64	.19	.62	.25	2.50	50	
			3	2.88								
20A-FT-14NTK	2/0	¼	1	1.93								
			2	2.93	1.14	.64	.22	.70	.25	2.50	54	
			3	3.93								
30A-FT-14NTK	3/0	¼	1	2.11								
			2	3.11	1.14	.78	.22	.77	.25	2.75	60	
			3	4.11								
40A-FT-14NTK	4/0	¼	1	2.04								
			2	3.04	1.14	.78	.25	.86	.25	3.13	66	
			3	4.04								

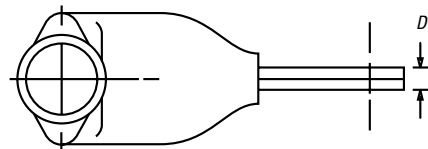
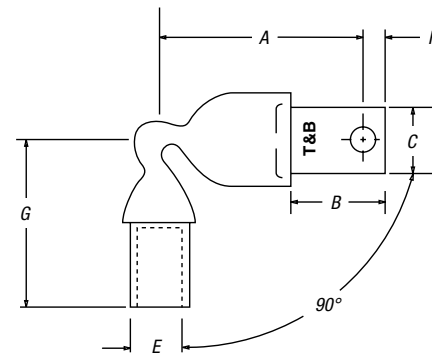
* Each Cat. No. consists of three connectors, (1) connector per phase.
 Connectors supplied with Thomas & Betts oxide-inhibitor compound in wire bore.
 Installation tooling: Hand or hydraulic tools.



CAT. NO.	CU CABLE SIZE	STUD SIZE (IN.)	PHASE	DIMENSIONS (IN.)							DIE CODE	
				A	B	C	D	E	F	G		
250A-FT-14NTK	250 kcmil	¼	1	2.31								
			2	3.44	1.20	.98	.25	.92	.31	3.00	71	
			3	4.57								
350A-FT-12NTK	350 kcmil	¼	1	2.31								
			2	3.69	1.45	1.09	.31	1.09	.56	3.94	87	
			3	5.06								
500A-FT-12NTK	500 kcmil	¼	1	2.56								
			2	4.06	1.45	1.20	.38	1.28	.56	4.19	99	
			3	5.69								
750A-FT-58NTK	750 kcmil	¼	1	2.63								
			2	4.50	1.70	1.49	.38	1.50	.81	4.39	115	
			3	6.25								

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104



Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Heavy-Duty Battery Connectors

Tin-Plated Straight Battery Connectors

Material: High-Conductivity Copper

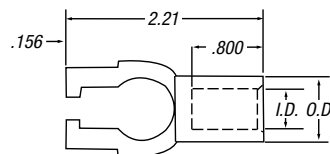
Finish: Electro-Tin Plate

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

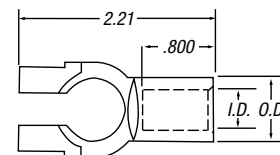
CAT. NO.	BULK CAT. NO.	SAE CABLE SIZE AND COLOR	DESCRIPTION	I.D.	O.D.	PKG. QTY.	BULK PKG. QTY.	COLOR KEY
BAC4SUBT	BAC4SUBT-C	4 Gauge	Straight Universal	.261	.430	5	100	GRAY
BAC2SUBT	BAC2SUBT-C	2 Gauge	Straight Universal	.340	.550	5	100	GREEN
BAC1SUBT	BAC1SUBT-C	1 Gauge	Straight Universal	.340	.550	5	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	GRAY
BAC4SNBT	BAC4SNBT-C	4 Gauge	Straight Negative	.261	.430	5	100	GRAY
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



BAC10SUBT



BAC10SPBT



Tin-Plated Flag Battery Connectors

Material: High-Conductivity Copper

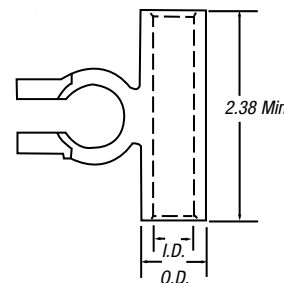
Finish: Electro-Tin Plate

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

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



BAC10FNBT



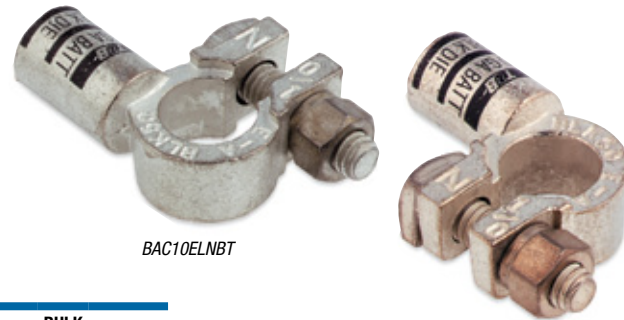
Heavy-Duty Battery Connectors

Tin-Plated Elbow Battery Connectors

Material: High-Conductivity Copper

Finish: Electro-Tin Plate

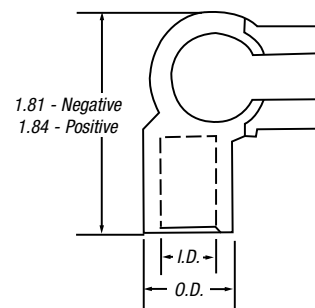
Installing Tools: TBM5-SV, TBM5V, TBM8250, TBM8250S



BAC10ELNBT

BAC10ERNBT

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



Tin-Plated Stackable Battery Connector

Material: High-Conductivity Copper

Finish: Electro-Tin Plate

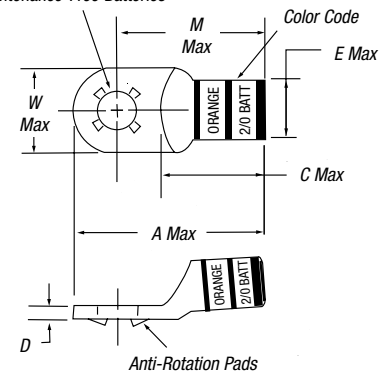
Installing Tools: TBM5-SV or TBM5V



BAC1038

CAT. NO.	BULK CAT. NO.	SAE CABLE SIZE AND COLOR	A	M	W	C	E	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	GRAY
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

For 3/8" Threaded Stud
Maintenance-Free Batteries



Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Heavy-Duty Battery Connectors

Blackburn® Starter Lugs

Material: High-Conductivity Copper

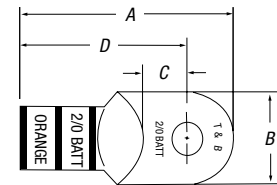
Finish: Electro-Tin Plate

Installing Tools: TBM5-SV or TBM5V



BAL414

CAT. NO.	BULK CAT. NO.	SAE CABLE SIZE	STUD SIZE (IN.)	A ±04	B ±02	C ±02	D ±02	PKG. QTY.	BULK PKG. QTY.	COLOR KEY
BAL414	273-31852-1	4 Gauge	¼	1.40	.52	.40	1.15	10	100	GRAY
BAL4516	273-31852-2	4 Gauge	¼	1.45	.61	.36	1.14	10	100	
BAL438	273-31852-3	4 Gauge	¾	1.45	.61	.36	1.14	10	100	
BAL2516	—	2 Gauge	¼	1.59	.69	.40	1.25	10		GREEN
BAL238	273-31852-4	2 Gauge	¾	1.78	.67	.55	1.40	10	100	
BAL212	273-31852-5	2 Gauge	½	1.77	.76	.54	1.40	10	100	
BAL1516	—	1 Gauge	¼	1.83	.76	.49	1.50	10		PINK
BAL138	273-31852-6	1 Gauge	¾	1.85	.75	.55	1.50	10	100	
BAL112	273-31852-7	1 Gauge	½	2.20	.75	.75	1.70	10	100	BLACK
BAL10516	—	1/0 Gauge	¼	1.92	.83	.50	1.50	10		
BAL1038	273-31852-8	1/0 Gauge	¾	1.93	.83	.55	1.55	10	100	
BAL1012	273-31852-9	1/0 Gauge	½	1.97	.88	.53	1.53	10	100	ORANGE
BAL20516	—	2/0 Gauge	¼	2.06	.93	.50	1.60	10		
BAL2038	273-31852-10	2/0 Gauge	¾	2.11	.93	.55	1.65	10	100	ORANGE
BAL2012	273-31852-11	2/0 Gauge	½	2.11	.93	.55	1.65	10	100	
BAL30516	—	3/0 Gauge	¼	2.16	1.03	.55	1.65	10		PURPLE
BAL3038	273-31852-12	3/0 Gauge	¾	2.03	1.03	.55	1.65	10	100	
BAL3012	273-31852-13	3/0 Gauge	½	2.35	1.03	.75	1.85	10	100	YELLOW
BAL40516	—	4/0 Gauge	¼	2.40	1.13	.59	1.84	10		
BAL4038	273-31852-14	4/0 Gauge	¾	2.28	1.12	.55	1.90	10	100	
BAL4012	273-31852-15	4/0 Gauge	½	2.60	1.12	.75	2.10	10	100	



Splices (Two-Way Connectors)

Material: High-Conductivity Copper

Finish: Electro-Tin Plate

Installing Tools: TBM5-SV or TBM5V



BAS4

CAT. NO.	BULK CAT. NO.	SAE CABLE SIZE	PKG. QTY.	BULK PKG. QTY.	COLOR KEY
BAS4	273-31852-16	4 Gauge	10	100	GRAY
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

“Y” Splices

Material: High-Conductivity Copper

Finish: Electro-Tin Plate

Installing Tools: TBM5-SV or TBM5V

Insulating Cover: AC5X3



BASY30

CAT. NO.	STRIP CABLE SIZE	SAE CABLE SIZE AND COLOR	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

Heavy-Duty Battery Connectors

Abrasion resistant and engineered for optimum performance at both high and low temperatures.

Blackburn® Battery/Starter Cables

- Fine flexible copper rope stranding PVC jacket 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
- Blackburn® Color-Keyed® system markings for fast and accurate identification
- Marked in 1-ft. increments for easy measurement
- Available in red or black jacket color

CAT. NO.	SAE CABLE SIZE	CABLE LENGTH	CABLE COLOR
BC4-100	4 Gauge	100 ft.	BLACK
BC2-100	2 Gauge	100 ft.	
BC1-100	1 Gauge	100 ft.	
BC10-100	1/0 Gauge	100 ft.	
BC20-100	2/0 Gauge	100 ft.	
BC30-100	3/0 Gauge	100 ft.	
BC40-100	4/0 Gauge	100 ft.	
BC4-1000	4 Gauge	1000 ft.	
BC2-500	2 Gauge	500 ft.	
BC1-500	1 Gauge	500 ft.	
BC10-500	1/0 Gauge	500 ft.	
BC20-500	2/0 Gauge	500 ft.	
BC30-500	3/0 Gauge	500 ft.	
BC40-500	4/0 Gauge	500 ft.	
BC4-1000R	4 Gauge	1000 ft.	RED
BC2-500R	2 Gauge	500 ft.	
BC1-500R	1 Gauge	500 ft.	
BC10-500R	1/0 Gauge	500 ft.	
BC20-500R	2/0 Gauge	500 ft.	
BC30-500R	3/0 Gauge	500 ft.	
BC40-500R	4/0 Gauge	500 ft.	

CAT. NO.	SAE CABLE SIZE	CABLE LENGTH	CABLE COLOR
BC4-25	4 Gauge	25 ft.	BLACK
BC2-25	2 Gauge	25 ft.	
BC1-25	1 Gauge	25 ft.	
BC10-25	1/0 Gauge	25 ft.	
BC20-25	2/0 Gauge	25 ft.	
BC30-25	3/0 Gauge	25 ft.	
BC40-25	4/0 Gauge	25 ft.	
BC4-25R	4 Gauge	25 ft.	
BC2-25R	2 Gauge	25 ft.	
BC1-25R	1 Gauge	25 ft.	
BC10-25R	1/0 Gauge	25 ft.	
BC20-25R	2/0 Gauge	25 ft.	
BC30-25R	3/0 Gauge	25 ft.	
BC40-25R	4/0 Gauge	25 ft.	



Material: High-Conductivity Copper

Finish: Electro-Tin Plate

Installing Tools: TBM5-SV or TBM5V



Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Specially designed for demanding industrial and OEM requirements.

Heavy-Duty Battery Cable

- 105° C temperature rated and UL® recognized
- Heavier PVC jacket conforms to SAE J1127 specifications
- Blackburn® Color-Keyed® system markings for fast and accurate identification
- Marked in 1-ft. increments for easy measurement
- Layer of paper separates insulation from copper for easy stripping with no strand damage
- 600V rated available in bulk only
- Application specific — call to order



Metric Connectors for Copper Conductor

One-Hole Metric Lugs

Blackburn® metric lugs are manufactured from electrolytic copper tube. The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength, resisting vibration and pull out.

Blackburn® metric lugs are annealed to guarantee optimum ductility, which is a necessity for compression connectors having to withstand severe deformation arising when compressed or bending of the tongue that may happen during installation.

Connectors have to perform adequately with vibration loads, and annealing is necessary to avoid material failure between the barrel and the tongue.

The presence of an inspection hole facilitates full insertion of the conductor, and the barrel length is designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically tin-plated to eliminate oxidation of the copper material. Blackburn® metric lugs complement our connector family and meet a growing need for customer's connector requirements. Details of the appropriate crimping tools and dies are included. Our Technical Services group is always available to provide any technical advice required. Please contact them if sizes are needed additional to those shown in this catalog.

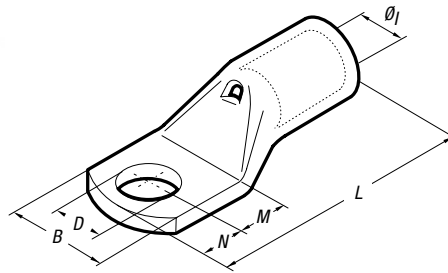


CAT. NO.	COND. SIZE SQMM		Ø STUD MM	DIMENSIONS (MM)						STD. PKG.	6 TON TBM62BSCR (CRIMPS)	14 TON BPLT14BSCRI (CRIMPS)	26 TON TBM26MCC (CRIMPS)	60 TON TBM60MCC (CRIMPS)
	LOW STRANDED	I FLEXIBLE		ØI	B	M	N	L	D					
MCC6M4			4	3,6	8,0	5,0	4,0	21,5	4,3	100				
MCC6M5		4-6	5	3,6	9,0	6,5	6,0	25,0	5,3	100	MCD6-6 (1)	N/A	N/A	
MCC6M6			6	3,6	11,0	7,0	6,0	25,5	6,4	100				
MCC10M4			4	4,6	10,0	5,0	4,0	22,5	4,3	100				
MCC10M5*			5	4,6	10,0	6,5	6,0	26,0	5,3	100				
MCC10M6*		10	6	4,6	11,0	7,0	6,0	26,5	6,4	100	MCD10-6 (1)	MCD10-14 (1)	N/A	
MCC10M8*			8	4,6	15,0	9,0	8,0	30,5	8,4	100				
MCC10M10*			10	4,6	18,0	11,0	10,0	34,5	10,5	100				
MCC16M4*			4	5,8	11,5	5,0	4,0	25,5	4,3	100				
MCC16M5*			5	5,8	11,5	6,5	6,0	29,0	5,3	100				
MCC16M6*		16	6	5,8	11,5	7,0	6,0	29,5	6,4	100	MCD16-6 (1)	MCD16-14 (1)	N/A	
MCC16M8*			8	5,8	15,0	9,0	8,0	33,5	8,4	100				
MCC16M10*			10	5,8	18,0	11,0	10,0	37,5	10,5	100				
MCC25M5*			5	7,0	14,0	6,5	6,0	31,5	5,3	100				
MCC25M6*		25	6	7,0	14,0	7,0	6,0	32,0	6,4	100	MCD25-6 (1)	MCD25-14 (1)	N/A	
MCC25M8*			8	7,0	15,0	9,0	8,0	36,0	8,4	100				
MCC25M10*			10	7,0	18,0	11,0	10,0	40,0	10,5	100				
MCC35M5*			5	8,9	17,0	6,5	6,0	34,0	5,3	100				
MCC35M6*		25	6	8,9	17,0	7,0	6,0	34,5	6,4	100				
MCC35M8*	35	35	8	8,9	17,0	9,0	8,0	38,5	8,4	100	MCD35-6 (1)	MCD35-14 (1)	N/A	
MCC35M10*			10	8,9	19,0	11,0	10,0	42,5	10,5	100				
MCC35M12*			12	8,9	21,0	14,0	12,0	47,5	13,2	50				
MCC50M8*		35	8	10,0	19,0	9,0	8,0	42,5	8,4	50	MCD50-6 (2)	MCD50-14 (1)	N/A	
MCC50M10*	50	50	10	10,0	20,0	11,0	10,0	46,5	10,5	50			N/A	
MCC50M12*			12	10,0	21,0	14,0	12,0	51,5	13,2	50				
MCC70M6*			6	11,3	21,0	8,0	7,0	44,0	6,4	50				
MCC70M8*		50	8	11,3	21,0	9,0	8,0	46,0	8,4	50				
MCC70M10*	70	70	10	11,3	21,0	11,0	10,0	50,0	10,5	50	MCD70-6 (2)	MCD70-14 (1)	N/A	
MCC70M12*			12	11,3	22,0	14,0	12,0	55,0	13,2	50				
MCC70M16*			16	11,3	26,0	18,0	16,0	63,0	17,0	50				
MCC95M8*		70	8	13,5	25,0	9,0	8,0	52,5	8,4	25	MCD95-6 (2)	MCD95-14 (1)	N/A	
MCC95M10*	95	95	10	13,5	25,0	11,0	10,0	56,5	10,5	25			N/A	
MCC95M12*			12	13,5	25,0	14,0	12,0	61,5	13,2	25				

*UL® Listed

Note: See metric compression tools on p. F-100.

Metric Connectors for Copper Conductor



CAT. NO.	COND. SIZE SQMM		Ø STUD MM	DIMENSIONS (MM)						STD. PKG.	6 TON TBM62BSCR (CRIMPS)	14 TON BPLT14BSCRI (CRIMPS)	26 TON TBM26MCC (CRIMPS)	60 TON TBM60MCC (CRIMPS)
	LOW STRANDED	I FLEXIBLE		ØI	B	M	N	L	D					
MCC120M6			8	—	—	—	—	—	6.4	25				
MCC120M8*			8	15,2	28,5	9,0	8,0	54,0	8.4	25				
MCC120M10*	120	95 120	10	15,2	28,5	11,0	10,0	58,0	10.5	25	MCD120-6 (2)	MCD120-14 (1)	N/A	N/A
MCC120M12*			12	15,2	28,5	14,0	12,0	63,0	13.2	25				
MCC120M16*			16	15,2	28,5	18,0	16,0	71,0	17.0	25				
MCC150M12*			12	16,7	31,5	16,0	14,0	75,0	13.2	25	MCD150-6	MCD150-14	N/A	N/A
MCC150M16*	150	150	16	16,7	31,5	19,0	17,0	81,0	17.0	25	(3)	(1)	N/A	N/A
MCC185M10*			10	19,2	35,5	13,0	11,0	76,0	10.5	25				
MCC185M12*	185	150 185	12	19,2	35,5	16,0	14,0	82,0	13.2	25	MCD185-6 (3)	MCD185-14 (1)	N/A	N/A
MCC185M16*			16	19,2	35,5	19,0	17,0	88,0	17.0	15				
MCC240M10*			10	21,1	39,0	13,0	11,0	82,0	10.5	15				
MCC240M12*	240	185 240	12	21,1	39,0	16,0	14,0	88,0	13.2	15	MCD240-6 (3)	MCD240-14 (2)	N/A	N/A
MCC240M16*			16	21,1	39,0	19,0	17,0	94,0	17.0	15				
MCC300M10*			10	23,7	44,0	20,0	11,0	96,0	10.5	10				
MCC300M12*	300	240	12	23,7	44,0	20,0	14,0	99,0	13.2	10	N/A	MCD300-14 (3)	N/A	N/A
MCC300M16*			16	23,7	44,0	22,0	19,0	10,0	17.0	10				
MCC400M10			12	27,0	51,0	22,0	19,0	113,0	13.2	5				
MCC400M12	400	300	12	27,0	51,0	22,0	19,0	113,0	13.2	5	N/A	MCD400-14 (3)	MCD400-26 (2)	MCD400-60 (2)
MCC400M16			16	27,0	51,0	22,0	19,0	113,0	17.0	5				
MCC500M10			16						13.2	5				
MCC500M12	500	400	16						17,0	5	N/A	N/A	MCD500-26 (2)	MCD500-60 (2)
MCC500M16			16	30,3	56,5	22,0	19,0	117,0	17,0	5				
MCC630M16	630	500	16	33,4	61,6	22,0	19,0	128,0	17,0	6	N/A	N/A	MCD630-26 (2)	MCD630-60 (2)
MCC630M20			20	33,4	61,6	24,0	23,0	134,0	21,0	6				
MCC800M16	800	630	16	38,0	72,0	24,0	19,0	141,0	17,0	3	N/A	N/A	N/A	MCD800-60 (2)
MCC800M20			20	38,0	72,0	24,0	23,0	145,0	21,0	3				
MCC1000M16	1000	800	16	44,0	80,0	24,0	19,0	158,0	17,0	2	N/A	N/A	N/A	MCD1000-60 (2)
MCC1000M20			20	44,0	80,0	24,0	23,0	162,0	21,0	2				

*UL® Listed

Note: See metric compression tools on p. F-100.

Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Metric Connectors for Copper Conductor

Narrow-Tongue Metric Lugs

Blackburn® narrow-tongue metric lugs feature a contained tongue width.

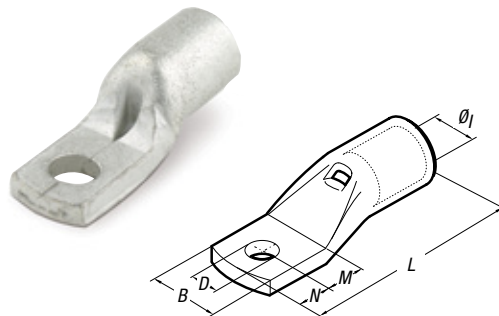
Our lugs have been specifically developed for applications with L.V. circuit breakers with reduced space requirements. The tongue width allows a quicker and easier installation.

Blackburn® narrow-tongue metric lugs are manufactured from electrolytic copper tube.

The specific design of the barrel and dimensions create the best combination of mechanical strength and electrical conductivity.

Blackburn® narrow-tongue metric lugs are annealed to guarantee optimum ductility and are electrolytically tin-plated to avoid oxidation.

The barrel is provided with an internal chamfer for easy insertion of the conductor. The length allows easy positioning of the dies for proper crimping.



CAT. NO.	COND.SIZE FLEXIBLE SQMM	Ø STUD MM	DIMENSIONS (MM)						STD. PKG.	6 TON TBM62BSCR (CRIMPS)	14 TON BPLT14BSCRI (CRIMPS)
			Ø1	B	M	N	L	D			
MCCNT10M5	10	5	4,6	9,0	6,5	6,0	26,0	5,3	100	MCD10-6 (1)	MCD10-14 (1)
MCCNT16M5	16	5	5,8	9,0	6,5	6,0	29,0	5,3	100	MCD16-6 (1)	MCD16-14 (1)
MCCNT25M5	25	5	7,0	9,0	6,5	6,0	31,5	5,3	100	MCD25-6 (1)	MCD25-14 (1)
MCCNT35M6	35	6	8,9	11,5	8,0	7,0	36,5	6,4	100	MCD36-6 (1)	MCD35-14 (1)
MCCNT50M6	50	6	10,0	11,5	8,0	7,0	40,5	6,4	50	MCD50-6 (2)	MCD50-14 (1)
MCCNT70M6	70	6	11,3	11,5	8,0	7,0	44,0	6,4	50	MCD70-6 (2)	MCD70-14 (1)
MCCNT95M8	95	8	13,5	15,5	9,0	8,0	52,5	8,	25	MCD95-6 (2)	MCD95-14 (1)
MCCNT120M8	120	8	15,2	19,0	14,0	9,0	60,0	8,4	25	MCD120-6 (2)	MCD120-14 (1)
MCCNT120M10		10	15,2	19,0	14,0	9,0	60,0	10,5	25	MCD120-6 (2)	MCD120-14 (1)
MCCNT150M8	150	8	16,7	19,0	18,0	9,0	70,0	8,4	25	MCD150-6 (3)	MCD150-14 (1)
MCCNT150M10		10	16,7	19,0	18,0	9,0	70,0	10,5	25	MCD150-6 (3)	MCD150-14 (1)
MCCNT185M10	185	10	19,2	24,5	18,0	9,0	77,0	10,5	25	MCD185-6 (3)	MCD185-14 (1)
MCCNT240M10	240	10	21,1	31,0	13,0	9,0	80,0	10,5	15	MCD240-6 (3)	MCD240-14 (2)
MCCNT240M12		12	21,1	31,0	16,0	12,0	86,0	13,2	15	MCD240-6 (3)	MCD240-14 (2)
MCCNT240M16		16	21,1	31,0	19,0	17,0	94,0	17,0	15	MCD240-6 (3)	MCD240-14 (2)
MCCNT300M12	300	12	23,7	31,0	16,0	12,0	95,0	13,2	10	NA	MCD300-14 (3)

Note: See metric compression tools on p. F-100.

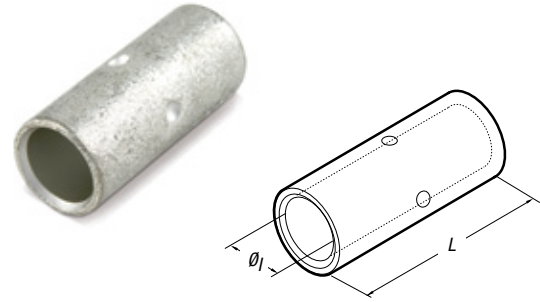
Metric Connectors for Copper Conductor

Two-Way Metric Splice Connectors

Blackburn® metric splice connectors are designed for joining low voltage conductors.

Made of electrolytic copper tube having similar dimensions to the Blackburn® metric lugs, these connectors are also annealed and electrolytically tin-plated.

They feature an internal chamfer at both ends. For easy insertion of the conductor, a center stop is provided to ensure correct positioning.



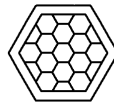
CAT. NO.	COND. SIZE SQMM		DIMENSIONS (MM)		STD. PKG.	6 TON TBM62BSCR (CRIMPS)	14 TON BPLT14BSRI (CRIMPS)	26 TON TBM26MCC (CRIMPS)	60 TON TBM60MCC (CRIMPS)
	LOW STRANDED	I FLEXIBLE	Ø1	L					
MCST1	0.25÷1.5	0.25÷1.5	1,8	15	100	N/A	N/A	N/A	N/A
MCST2	1.5÷2.5	1.5÷2.5	2,4	15	100	N/A	N/A	N/A	N/A
MCST6	4÷6	4÷6	3,6	22	100	MCD6-6 (1 + 1)	N/A	N/A	N/A
MCST10	10	10	4,6	25	100	MCD10-6 (1 + 1)	MCD10-14 (1 + 1)	N/A	N/A
MCST16	16	16	5,8	27	100	MCD16-6 (1 + 1)	MCD16-14 (1 + 1)	N/A	N/A
MCST25	25	25	7,0	29	100	MCD25-6 (1 + 1)	MCD25-14 (1 + 1)	N/A	N/A
MCST35	35	25÷35	8,9	33	100	MCD35-6 (1 + 1)	MCD35-14 (1 + 1)	N/A	N/A
MCST50	50	35÷50	10,0	37	50	MCD50-6 (2 + 2)	MCD50-14 (1 + 1)	N/A	N/A
MCST70	70	50÷70	11,3	39	50	MCD70-6 (2 + 2)	MCD70-14 (1 + 1)	N/A	N/A
MCST95	95	70÷95	13,5	43	25	MCD95-6 (2 + 2)	MCD95-14 (1 + 1)	N/A	N/A
MCST120	120	95÷120	15,2	47	25	MCD120-6 (2 + 2)	MCD120-14 (1 + 1)	N/A	N/A
MCST150	150	120÷150	16,7	58	25	MCD150-6 (3 + 3)	MCD150-14 (1 + 1)	N/A	N/A
MCST185	185	150÷185	19,2	64	25	MCD185-6 (3 + 3)	MCD185-14 (1 + 1)	N/A	N/A
MCST240	240	185÷240	21,1	75	15	MCD240-6 (3 + 3)	MCD240-14 (2 + 2)	N/A	N/A
MCST300	300	240	23,7	90	10	N/A	MCD300-14 (3 + 3)	N/A	N/A
MCST400	400	300	27,0	94	5	N/A	MCD400-14 (3 + 3)	MCD400-26 (2 + 2)	MCD400-60 (2 + 2)
MCST500	500	400	30,3	98	6	N/A	N/A	MCD500-26 (2 + 2)	MCD500-60 (2 + 2)
MCST630	600÷630	500	33,4	105	6	N/A	N/A	MCD630-26 (2 + 2)	MCD630-60 (2 + 2)
MCST800	800	600	38,0	112	3	N/A	N/A	N/A	MCD800-60 (2 + 2)
MCST1000	1,000	800	44,0	120	3	N/A	N/A	N/A	MCD1000-60 (2 + 2)

Note: See metric compression tools on p. F-100.

Tools and Dies

Blackburn® JB12B 12-Ton Manual Hydraulic Crimp Tool

- Self-contained hydraulic crimping tool for copper, aluminum and ASCR connectors
- Two-stage, rapid-ram advance mechanism for fast installation
- 180° head rotation
- Accepts all U-type dies used for Alcoa®, Burndy®, Thomas & Betts® and Blackburn® tools of equivalent tonnage



Creates hex-style crimp

Specifications

- Installing Range:
 - Up to 750 kcmil copper lugs & splices
 - Up to 650 kcmil aluminum lugs & splices
 - CHT814-10 to CHT2502-6 copper H-taps
- 63105 to 63148 aluminum H-taps
- 54755 to 54770 C-taps
- Output Force: 12 tons
- Dimensions (L x W x H): 22¾" x 2½" x 4⅞"
- Weight without Dies: 13 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
JB12B	12-Ton Manual Hydraulic Crimp Tool with Carrying Case	1

Integral self-gauging system in tool head ensures proper adjustment before each crimp.

Blackburn® OD Mechanical Compression Tools

- OD58 Tool includes ⅝" fixed die in nose and can also accept other standard insert dies, such as O, D, 840, etc.
- ODF and ODB Tools feature fixed O and D dies for versatility
- ODB Tools also accept other standard MD6 insert dies
- Optional fiberglass handles provides better balance, resulting in easier handling and positioning
- Optional lever action (indicated by L72 suffix) has been optimized and tested to require minimum force to crimp



CAT. NO.	DESCRIPTION	HANDLE LENGTH (IN.)	WEIGHT (LB.)
OD58	Fixed ⅝" Die, Straight Wooden Handles	21	6.5
OD581	Fixed ⅝" Die, Fiberglass Handles	21	6.0
OD583	Fixed ⅝" Die, Curved Wooden Handles	21	6.5
ODF	Fixed O and D Dies, Straight Wooden Handles	21	6.5
ODF1	Fixed O and D Dies, Fiberglass Handles	21	6.0
ODF3	Fixed O and D Dies, Curved Wooden Handles	21	6.5
ODB	Fixed O and D Dies, Straight Wooden Handles	21	6.5
ODB1	Fixed O and D Dies, Fiberglass Handles	21	6.0
ODB3	Fixed O and D Dies, Curved Wooden Handles	21	6.5
OD58L72	Fixed ⅝" Die, Hotstick Handles 1.5" x 72"	72	10.5
ODBL72	Fixed O and D Dies, Hotstick Handles 1.5" x 72"	72	10.5
ODH1	Insulating Head Covers	—	.40

Tools and Dies

Type OD Tool Dies

CAT. NO.	DESCRIPTION OR COLOR CODE
OJB	O
DBL	D
BY39	510 Hex (non-bow)
BY41	635 Hex (non-bow)
BY43	747 Hex (non-bow)
BY45	T
BY47	K
BY49	B
BY51	J
BY53	P
BY13	3/16
BY15*	7/32 (EEI-1 index 236)
BY17	1/4
BY19	5/16 (index 161.242)
BY21	3/8
BY23	1/2 (index 163)
BY25	9/16
BY27	1 1/16
BY29	1 9/32
BY31	5/8 (index 165)
BY33	737
BY35	781
BY37	840 (EEI 11A)
BY55	Wire Cutter (2/0 max.)
BY63	Orange (Nicopress)
BY65	Plum
BY15C*	7/32 Red
BY17C*	1/4 Blue
BY19C*	5/16 Gray
BY21C*	3/8 Brown
BY23C*	1/2 Pink
BY24C*	1/2-1 Gold
BY25C*	9/16 Tan/Orange
BY27C*	1 1/16 Yellow
BY31C*	5/16-1 Olive/Purple
BY32C*	Ruby
BY35C*	781 White
BY37C*	840 Red
BY28C*	1 1/2 Black
BY53C*	P Green
ODH1	Insulating Head Cover

*Can also be used with OD58 tool.

U-Type Dies

CAT. NO.	DESCRIPTION OR COLOR CODE
B58CS	5/8 Die Set
HO	O Die Set
HD	D Die Set
HN	N Die Set
HU	U Die Set
HBKC	BKC
HBKT	BKT
B24EA	EEI 8A
B30EA	EEI 9A
B39EA	EEI 10A
B49EA	EEI 11A (840)
B61EA	EEI 12A
B80EA	EEI 13A
B20AH	EEI 14A
B71AH	—
B72AH	—
B73AH	—
B74AH	—
B75AH	—
B76AH	—
B76SH	—
B06CHI	Pink/Gold
B08CHI	Tan/Orange
B09CHI	Olive/Purple
B11CH	Red/Blue
B10SH	—
B05CH	Green
B26CH	Ruby/Yellow
B71CH	Red
B72CH	Black
B73CH	Blue
B74CH	Gray
B75CH	Brown
B76CH	Pink
B10CHI	White
B12CHI	Brown

Tools and Dies

Tested up to 75kV, this tool enables you to crimp any connector manufactured to the ANSI C199.4 specification — up to 500 kcmil.

6.2-Ton Battery-Powered Dieless Crimping Tool — 0.9" Jaw Opening

- Compresses Hovac®/Anderson-style lugs with 6.2 tons of force, eliminating the need for dies
- Audible bypass lets you know when predetermined pressure is achieved
- Advance and retract buttons on pistol-grip handle enable one-hand operation, freeing the other hand to maneuver the cable
- Weather-resistant housing, built to last in rugged, outdoor conditions



CAT. NO.	COMP. FORCE	CONNECTOR RANGE COPPER AND ALUMINUM LUGS AND SPLICES	DIMENSIONS (IN.)	WEIGHT (LBS.)	WARRANTY
HMC-5630	6.2 Tons	#10–500	13H x 2.5W x 14L	11.5 with Battery	5 Years

Note: For range-taking connectors, the cable must be the maximum size specified for the connector.

Tested up to 75kV, this tool crimps any connector manufactured to the ANSI C199.4 specification — from #6 AWG to 750 kcmil.

6.2-Ton Battery-Powered Flip-Top Dieless Crimping Tool — 1.5" Jaw Opening

- Compresses Hovac®/Anderson-style lugs with 6.2 tons of force, eliminating the need for dies
- One stationary and three movable indenting nibs close at 90° angles to each other so that the connector is squeezed equally at four strategic points
- External bypass cartridge enables faster pressure adjustment and repair times
- Audible bypass lets you know when predetermined pressure is achieved
- Weather-resistant housing, built to last in rugged, outdoor conditions



CAT. NO.	COMP. FORCE	CONNECTOR RANGE COPPER AND ALUMINUM LUGS AND SPLICES	DIMENSIONS (IN.)	WEIGHT (LBS.)	WARRANTY
HMC-5750	6.2 Tons	#6–750	13H x 2.5W x 15.5L	12 with Battery	5 Years

Note: For range-taking connectors, the cable must be the maximum size specified for the connector.

Tools and Dies

Nothing to lose — a built-in 5/8" die is precision-cast and installs compression connectors from #8 to 4/0.

UT 3 M Installation Tool



- Fast action — one stroke of the tool develops full compression
- SHURE-SQUEEZER™ design ensures proper compression before jaws release
- Weighs only 2.2 lbs.

CAT. NO.	DESCRIPTION
UT 3 M	Installs Compression Connectors from #8 to 4/0

Removable, reversible die installs 1/2" and 5/8" compression connectors.

UT 3 Installation Tool and Upper Dies



- Also accommodates UT 3-4 G GOLD DIE, a 1/2" and 5/8" gold upper die for ACSR and UT 3-4 R RED DIE, a 1/2" and 5/8" red upper die for compressed and compact stranded wire
- Fast action — one stroke of the tool develops full compression
- SHURE-SQUEEZER™ design ensures proper compression before jaws release
- Weighs only 2.2 lbs.

CAT. NO.	DESCRIPTION
Installation Tool	
UT 3	Installs Compression Connectors on ACSR, Stranded, Compressed and Compact Stranded

Upper Dies	
UT 3-4 G GOLD DIE	1/2" and 5/8" Gold Upper Die for ACSR and Stranded
UT 3-4 R RED DIE	1/2" and 5/8" Red Upper Die for Compressed and Compact Stranded

Drop-forged cutting blades and fiberglass handles designed for easy field replacement.

Utility Cable Slicers

- Rugged fiberglass handles provide many years of dependable service
- Drop-forged cutting blade's slicing action provides flush, burr-free conductor ends.
- Well-designed handle stops prevent "knuckle busting" during use



CAT. NO.	DESCRIPTION	MAXIMUM RANGE	MAX. OD INC. INSULATION	OVERALL LENGTH (IN.)
UT 4 C	Cable Slicer — Small	600 Al-350 Cu	15/16	21
UT 6 C	Cable Slicer — Large	1000 Al-500 Cu	2	31 1/2

Note: For use on copper and aluminum cable only. Not for use on steel or ACSR cable. For insulating covers for the area where the blades and handles are joined, please consult your Thomas & Betts representative.

The compact, dependable tool for turning a screw.

Allen Wrench



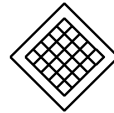
- PVC-dipped handle gives you a steady grip while turning
- Available for 5/16" and 3/8" hex screws to match the most popular screw sizes

CAT. NO.	HEX SIZE (IN.)
WA 516	5/16
WA 38	3/8

Tools and Dies

TBM45S Comfort Crimp® Tool

- Requires the lowest handle force of any tool in its class — up to 75% less than competing tools
- Wide installing range of #8–#2 AWG copper and #10–#6 AWG aluminum lugs and splices
- Also installs up to green color-coded C-taps and MD2 Series motor lead disconnects
- Shure-Stake® mechanism ensures a complete crimp cycle before release for a proper crimp every time
- Color-coded die wheel for easy matching with Blackburn® lugs and splices featuring the Color-Keyed® system
- CrimpAssist® foot provides stability when work surface leverage is needed to crimp larger connectors
- UL® Listed for use with Blackburn® compression connectors featuring the Color-Keyed® system



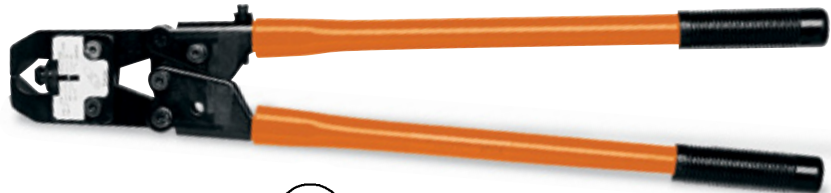
Creates diamond-style crimp



CAT. NO.	DESCRIPTION	PKG. QTY.
TBM45S	Crimp tool with Shure-Stake® mechanism for #8–#2 copper and #10–#6 AWG aluminum Lugs and Splices	1

TBM4S Dieless Crimp Tool

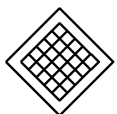
- Wide range of #8 AWG to 250 kcmil for copper lugs and #8 to 4/0 AWG for aluminum lugs
- Adjustable indenter eliminates the need to buy and maintain numerous individual dies
- Shure-Stake® mechanism ensures a properly completed crimp each time
- Easily adjusted by turning knurled adjusting wheel and aligning pointer with proper terminal size
- Dieless, adjustable crimper for Blackburn® compression connectors featuring the Color-Keyed® system



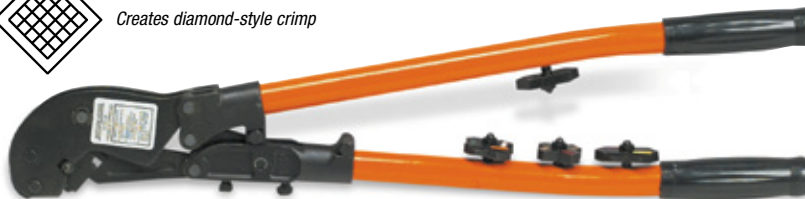
Creates indent-style crimp

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM4S	Dieless crimp tool with Shure-Stake® mechanism for #8 AWG–250 kcmil copper and #8–4/0 AWG aluminum	1

TBM5S Crimp Tool



Creates diamond-style crimp

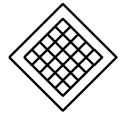


- Wide range of #8 AWG to 250 kcmil for copper and #10 to 4/0 AWG for aluminum lugs and splices
- Also installs C-taps from 54705 to 54750
- Shure-Stake® mechanism ensures a properly completed crimp each time
- Includes color-coded, die code-embossed installation dies

CAT. NO.	COLOR CODE	DIE CAT. NO.	PKG. QTY.
TBM5S	RED	13454	1
	BLUE		
	GRAY		
	BROWN	13455	
	GREEN		
	PINK		
	BLACK		
	ORANGE	13456	
	PURPLE		
	YELLOW		
	GOLD	13457	
	TAN		
	OLIVE		
	RUBY		
WHITE	13458		

Tools and Dies

TBM6S Crimp Tool



Creates diamond-style crimp



- Wide ranges of #8 AWG thru 500 kcmil for copper lugs, splices and taps and #10 AWG thru 350 kcmil for aluminum lugs and splices
- Also installs 63105 through 63140 orange, green and blue H-taps
- Shure-Stake® mechanism ensures a properly completed crimp each time
- Comes complete with plastic carrying case and wire brush

Note: The TBM6S tool can also be used to crimp Sta-Kon® terminals. See Sta-Kon® section for dies.

CAT. NO.	COLOR CODE	CAT. NO UPPER DIE	CAT. NO LOWER DIE	PKG. QTY.
TBM6S	RED	13475	13477	1
	BLUE	13475	13477	
	GRAY	13472	13476	
	BROWN	13474	13477	
	GREEN	13474	13477	
	PINK	13475	13477	
	BLACK	13474	13477	
	ORANGE	13474	13477	
	PURPLE	13475	13477	
	YELLOW	13473	13476	
	GOLD	13474	13477	
	TAN	13475	13477	
	OLIVE	13475	13477	
	RUBY	13473	13476	
	WHITE	13473	13476	
	RED	13472	13476	
	BLUE	13472	13476	
BROWN	13478	13478		

Carrying Cases for TBM5S and TBM6S

CAT. NO.	DESCRIPTION	PKG. QTY.
295-31365M	Steel Carrying Case for TBM5S and TBM6S	1
295-31365	Plastic Carrying Case for TBM5S and TBM6S	1

TBM8S Crimp Tool



Creates diamond-style crimp



- Installs code copper lugs and connectors #8 AWG through 500 kcmil
- Installs aluminum lugs and connectors #10 AWG through 350 kcmil
- Shure-Stake® mechanism ensures positive compression
- Included dies are color coded and provide die-code embossing for easy installation and inspection
- Installs all code copper compression joints and small C-taps
- Comes complete with installing dies and wire brush in plastic carrying case

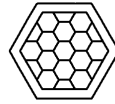
CAT. NO.	COLOR CODE	DIE CAT. NO	PKG. QTY.
TBM8S	RED	13461	1
	BLUE		
	GRAY		
	BROWN	13462	
	GREEN		
	PINK		
	BLACK		
	ORANGE	13463	
	PURPLE		
	YELLOW		
	GOLD	13464	
	TAN		
	OLIVE		
	RUBY		
	WHITE	13465	
	RED	13466	
	BLUE	13467	
BROWN	13468		

Tools and Dies

Lightweight, battery-powered tool.

BPI42300CR 4-Ton Inline Cordless Crimp Tool

- Head rotates 180° for ease of use in tight spaces
- Powerful Ni-MH battery yields more crimps per charge
- Bright LED display indicates remaining battery life
- Includes tool, two Ni-MH batteries, battery adapter, battery charger, carrying case and nine hex crimp dies (TBM6221–TBM6266)



Creates hex-style crimp



Specifications

- Installing Range:
 - Up to 300 kcmil copper lugs and splices
 - Up to 4/0 AWG aluminum lugs and splices
- Output Force: 4 tons
- Dimensions (L x W x H): 14.6" x 2.6" x 4.2"
- Battery: Ni-MH 9.6V 3.0Ah
- Weight with Battery: 5.3 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPI42300CR	4-Ton Inline Cordless Crimp Tool with Accessories	1

Great for overhead lines and service connections.

BP4UCR Rechargeable 6-Ton Crimping Tool

- Jaws rotate 180° for ease of operation in confined spaces
- Ergonomically designed for one-handed operation
- Includes tool, two Ni-MH batteries, battery adapter, recharger and carrying case
- Fixed 5/8 (BG) and D groove in tool head
- D groove accepts all W-style dies; also includes fixed O groove

Specifications

- Installing Range: Service entry connectors requiring 5/8 (BG), D or O crimp die
- Output Force: 6 tons
- Dimensions (L x W x H): 17.7" x 2.6" x 4.7"
- Battery: Ni-MH 9.6V 3.0Ah
- Weight with Battery: 5.3 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BP4UCR	Rechargeable 6-Ton Crimping Tool with Accessories	1



Tools and Dies

25000 Air-Operated Bench-Mount Crimp Tool

- Installs copper and aluminum connectors on wire sizes from #8 AWG to 500 kcmil
- Compact, heavy-duty air tool
- Simple to operate — just insert stripped wire into connector barrel, position it in crimping nest and depress foot pedal to actuate crimping dies
- Uses same crimping dies as TBM6S (see p. F-85)



Creates diamond-style crimp



CAT. NO.	DESCRIPTION	PKG. QTY.
25000	Air-Operated Bench-Mount Crimp Tool	1

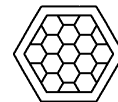
Battpac[®] LT BPLT62BSCR/BPLT62500BSCR 6-Ton Compression Tools

- Ergonomic design and reduced weight for operator comfort
- New double-speed feature decreases crimp time by doubling jaw speed until it reaches load
- New, more powerful Ni-MH battery has 50% more energy and less memory effect than old batteries
- Rotating head allows maximum flexibility for crimping
- Uses TBM62 Series dies

Specifications

- Installing Range:
 - Up to 500 kcmil copper lugs & splices
 - Up to 350 kcmil aluminum lugs & splices
 - 54705 to 54750 C-taps
- Output Force: 6 tons
- Dimensions (L x W x H): 11" x 3³/₄" x 11⁷/₈"
- Battery: Ni-MH 14.4V 3.0Ah
- Weight with Battery: 8 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPLT62BSCR	Battpac [®] LT Tool Kit. Includes tool, two batteries, charger, shoulder strap, wrist strap, carrying case (no dies).	1
BPLT62500BSCR	Complete Battpac [®] LT Tool Kit with dies TBM6221 through TBM6287.	1



Creates hex-style crimp

Connectors & Grounding — Blackburn[®] Compression Connectors Featuring the Color-Keyed[®] System

Tools and Dies

Battpac® LT BPLT6BSCR/BPLT6500BSCR 6-Ton Compression Tools

- Open yoke design allows for maximum crimping flexibility
- New double-speed feature decreases crimp time by doubling jaw speed until it reaches load
- New, more powerful Ni-MH battery has 50% more energy and less memory effect than old batteries
- Uses 6-Ton Series dies and Blackburn® “O” and “D” Series dies (requires adapter AU-55K, DIEADPODW or DIEADP62); otherwise, uses TBM62 series dies
- Available as a complete kit with 16 TBM series crimp dies for #8 AWG to 500 kcmil copper (#10 AWG to 350 kcmil aluminum)



Specifications

- Installing Range:
 - Up to 600 kcmil copper lugs & splices
 - Up to 400 kcmil aluminum lugs & splices
 - CHT814-10 to CHT214-9 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54705 to 54750 C-taps
- Output Force: 6 tons
- Dimensions (L x W x H): 11" x 3¾" x 11⅞"
- Battery: Ni-MH 14.4V 3.0Ah
- Weight with Battery: 8 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPLT6BSCR	Battpac® LT Tool Kit. Includes tool, two batteries, charger, shoulder strap, carrying case (no dies)	1
BPLT6500BSCR	Battpac® LT Tool Kit with Dies. Includes tool, two batteries, charger, shoulder strap, carrying case and 16 crimp dies from TBM6221 through TBM6287	1

TBM6H 6-Ton Hydraulic Crimping Head

- Lightweight design — weighs less than 7 lbs., including dies
- Embosses die code on connection for easy inspection
- Uses 6-Ton Series and Blackburn “O” and “D” Series dies color-coded for easy matching with Blackburn® connectors featuring the Color-Keyed® System



Specifications

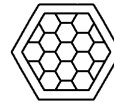
- Installing Range:
 - Up to 600 kcmil copper lugs & splices
 - Up to 400 kcmil aluminum lugs & splices
 - CHT814-10 to CHT214-9 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54705 to 54750 C-taps
- Output Force: 6 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 12" x 2¼" x 3⅞"
- Weight without Dies: 6.5 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM6H	6-Ton Hydraulic Head with Steel Case	1
TBM6HD-1	Die Set for #8 AWG thru 500 kcmil (6-TON21 thru 6-TON87)	1

Tools and Dies

TBM12 12-Ton Hydraulic Crimp Head

- Rugged steel construction is durable for most applications
- Includes five sets of multi-nested dies
- Dies emboss die code on connectors for easy inspection
- Closed yoke design yields maximum crimp performance
- Uses TBM12D style dies



Creates hex-style crimp



Specifications

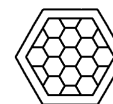
- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
 - 54755 to 54775 C-taps
- Output Force: 12 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14¼" x 2½" x 3⅜"
- Weight without Dies: 9 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM12	12-Ton Hydraulic Head with Steel Case	1

If using old style 11700 Series Die Set, use adapter Cat. No. TBM12D-AR for adaptation to the above tool. Order adapter separately.

13642M 12-Ton Hydraulic Crimping Head

- Rugged steel construction is durable for most applications
- Used for Blackburn[®] compression connectors featuring the Color-Keyed[®] System and Sta-Kon[®] connectors
- The only military-listed hydraulic head (Mil. Spec. MS25441-1)
- Uses 11700 Series dies for Blackburn[®] connectors; see Sta-Kon[®] section for Sta-Kon[®] dies



Creates hex-style crimp



Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
 - 54755 to 54775 C-taps
- Output Force: 12 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14½" x 2½" x 3⅝"
- Weight without Dies: 9 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
13642M	12-Ton Hydraulic Head with Steel Case	1

Connectors & Grounding — Blackburn[®] Compression Connectors Featuring the Color-Keyed[®] System

Tools and Dies

SMART® Tools

- Tool is “smart” because it requires no dies
- Automatically compresses to the correct depth based on size of connector in jaws
- C-type head swivels 90° for easy crimp positioning
- Forged steel construction is well suited for both field and bench work
- Installs both Color-Keyed® and non-insulated Sta-Kon® connectors

How the SMART® Tool Works

The SMART® Tool was engineered with built-in intelligence* that enables it to sense the connector barrel diameter and automatically 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

Uniform, Dependable Connections

The SMART® Tool gives you consistent, high-quality compression connections over a wide range of connector sizes. Available in manual, battery-powered and air-operated versions, this tool easily installs lugs and splices from #8 AWG through 900 kcmil copper or 750 kcmil aluminum — without changing dies. For the specified wire range, all you need is one tool. You always have the right die size, eliminating die-selection mistakes.

Lower Installation Costs

Productivity will be greatly improved with the SMART® Tool, especially when installing a variety of connector sizes or types. Initial investment is low, requiring minimal tool inventory. These benefits add up to lower installed cost.

C-Type Yoke Offers Installation Convenience

The C-type yoke configuration and large die spacing enable the SMART® Tool to slip directly over the connector. This means added speed and convenience when installing two-way splice connectors, especially in confined spaces.

SMART® Tool Range Taking Features

The following size Blackburn® lugs and splices featuring the Color-Keyed® System, when crimped with the SMART® Tools, 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 AWG–300 kcmil	300 kcmil	2/0 AWG–300 kcmil
350 kcmil	250–350 kcmil	350 kcmil	250–350 kcmil
500 kcmil	250–500 kcmil	500 kcmil	4/0 AWG–500 kcmil
750 kcmil	500–750 kcmil	750 kcmil	500–750 kcmil

TBM8-750M-1 12-Ton Dieless Manual Hydraulic Tool



Creates indent-style crimp



Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
- Output Force: 12 tons
- Dimensions (L x W): 21½" x 4⅞"
- Weight: 13 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM8-750M-1	12-Ton Dieless Manual Hydraulic Compression Tool	1

Battpac® LT TBM8-750BSCR 12-Ton Dieless Battery-Powered Tool



Creates indent-style crimp



Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
- Output Force: 12 tons
- Dimensions (L x W x H): 19½" x 3⅞" x 8½"
- Battery: NiCd 14.4V 2.4Ah
- Weight with Battery: 9 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM8-750BSCR	Battpac® LT 12-Ton Dieless Battery-Powered Compression Tool. Includes carrying case, charger, two batteries and carry strap.	1

TBM8-750 12-Ton Dieless Hydraulic Head



Creates indent-style crimp



Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
- Output Force: 12 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14½" x 4⅞" x 2⅞"
- Weight: 9 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM8-750	12-Ton Dieless Hydraulic Compression Head	1

Tools and Dies

TBM14M 14-Ton Manual Hydraulic Crimp Tool

- Features short fiberglass handles for insulation and ease of use in tight spaces
- Two-stage pump provides rapid advance for fast installation
- Uses standard T&B 15500 Series dies



Specifications

- Installing Range: 63105 to 63148 aluminum H-taps
Up to 900 kcmil copper lugs & splices
Up to 750 kcmil aluminum lugs & splices
CHT814-10 to CHT2502-6 copper H-taps
- Output Force: 14 tons
- Length: 24"
- Weight without Dies: 15.4 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM14M	14-Ton Manual Hydraulic Crimp Tool with Case	1

TBM14MC 14-Ton Compact Manual Hydraulic Crimp Tool

- Improved ergonomic design requires less force
- 180° rotating head for use in tight spaces
- 1.65" jaw opening accommodates large compression terminals and joints
- Dual-speed action pump offers fast advancing speed for approach of die to connector and slower, more powerful speed for crimping
- Built-in safety valve bypasses oil supply at maximum pressure
- Pressure-release system can be easily activated at any stage of compression
- Uses standard T&B 15500 Series dies



Specifications

- Installing Range: 63105 to 63148 aluminum H-taps
Up to 900 kcmil copper lugs & splices
Up to 750 kcmil aluminum lugs & splices
CHT814-10 to CHT2502-6 copper H-taps
- Output Force: 14 tons
- Length: 20½"
- Weight without Dies: 14 lbs.

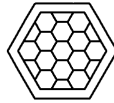
CAT. NO.	DESCRIPTION	PKG. QTY.
TBM14MC	14-Ton Compact Hydraulic Crimp Tool	1

Tools and Dies

Battpac® LT BPLT14BSCR/BPLT14BSCRI 14-Ton Battery-Powered Compression Tools



BPLT14BSCR



Creates hex-style crimp



BPLT14BSCRI

- Reduced weight and ergonomic design
- Double-speed feature decreases crimp time by doubling jaw speed until it reaches load
- Rotating head allows maximum flexibility for crimping
- Includes two Makita 14.4V Ni-MH batteries (3.0 AMP Hrs.)
- Built-in LED battery power indicator
- On-tool DC power jack

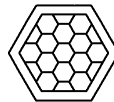
Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
 - CHT814-10 to CHT2502-6 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54755 to 54775 C-taps
- Output Force: 14 tons
- Dimensions (L x W x H): 18 1/8" x 3 3/8" x 10"
- Battery: 14.4V 3.0Ah Ni-MH
- Weight with Battery: 18.1 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPLT14BSCR	Battpac® LT 14-Ton Compression Tool. Includes carrying case, charger, two batteries, carry strap	1
BPLT14BSCRI	Same as above, but fully insulated	

13100A 14-Ton Hydraulic Crimping Head

- Rugged design, made to last in field or on bench
- C-yoke provides maximum flexibility for crimping
- Uses standard T&B 15500 Series dies
- Operates on 10,000-psi hydraulic pumps



Creates hex-style crimp



Specifications

- Installing Range:
 - Up to 900 kcmil copper lugs & splices
 - Up to 750 kcmil aluminum lugs & splices
 - CHT814-10 to CHT2502-6 copper H-taps
 - 63105 to 63148 aluminum H-taps
 - 54755 to 54775 C-taps
- Output Force: 14 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 11 1/2" x 2 1/2" x 4 1/4"
- Weight without Dies: 10 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
13100A	14-ton hydraulic head with steel case	1

Tools and Dies

Battpac® LT BPLT15BSCR 15-Ton Battery-Powered Compression Tool

- Rotating head allows maximum flexibility for crimping
- Double-speed feature decreases crimp time by doubling jaw speed until it reaches load
- Includes two Makita 14.4V Ni-MH batteries (3.0 AMP Hrs.)
- Built-in LED battery power indicator
- On-tool DC power jack



Creates hex-style crimp



Specifications

- Installing Range:
 - Up to 1500 kcmil copper lugs & splices
 - Up to 1000 kcmil aluminum lugs & splices
 - CHT814-10 to CHT750-350-1F copper H-taps
 - 63105 to 63180 aluminum H-taps
 - 54755 to 54790 C-taps
- Output Force: 15 tons
- Dimensions (L x W x H): 21" x 3½" x 11"
- Battery: 14.4V 3.0Ah Ni-MH
- Weight with Battery: 23.75 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPLT15BSCR	Battpac® LT 15-Ton Compression Tool. Includes carrying case, charger, two batteries, and carry strap	1

TBM15I 15-Ton Hydraulic Crimping Head

- Head made of forged steel and insulated with rubber boot
- Longer, slimmer design enables easier access into tight spaces, such as in cable tray and central office applications
- Wider jaw opening eases crimping of larger lugs, C-taps and H-taps
- Uses 15600 Series dies; can also use 15500 Series dies with 15500-TB adapter



Creates hex-style crimp



Specifications

- Installing Range:
 - Up to 1500 kcmil copper lugs & splices
 - Up to 1000 kcmil aluminum lugs & splices
 - CHT814-10 to CHT750-350-1F copper H-taps
 - 63105 to 36180 aluminum H-taps
 - 54755 to 54790 C-taps
- Output Force: 15 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 15¾" x 2½" x 4¾"
- Weight without Dies: 16.5 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM15I	Insulated 15-Ton Hydraulic Head with Steel Case	1
15600 Series — Fits directly into tool for larger size connectors, 800 kcmil–1500 kcmil		
15500 Series — Used in conjunction with 15500-TB Adapter, #8 AWG–750 kcmil		

21940 40-Ton Hydraulic Crimping Head

- Compact design delivers maximum pressure for larger lugs and splices
- Ideal for applications requiring larger lugs up to 2000 kcmil
- Uses 11300 and 11400 Series dies



Creates hex-style crimp



Specifications

- Installing Range:
 - Up to 2000 kcmil copper lugs & splices
 - Up to 2000 kcmil aluminum lugs & splices
- Output Force: 40 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 12" x 4¾" x 7¾"
- Weight without Dies: 40 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
21940	40-Ton Hydraulic Head with Steel Case	1

Tools and Dies

13606 Foot-/Hand-Operated and 13604 Hand-Operated Hydraulic Pump

- 13606 operates with either foot or hand; 13604 is hand operated only
- Operates all T&B hydraulic heads
- Built-in safety bypass valve
- Factory set at 9,800 psi



13606 Foot-/Hand-Operated Hydraulic Pump

Specifications

- Nominal Pressure: 9,800 psi
- Pumping Capacity: 2.6 cu. in./min. @ 200 psi
0.16 cu. in./min. @ 10,000 psi
- Reservoir Volume: 125 cu.in. (0.54 gal.)
- Max. Handle Force: 130 lbs.
- Dimensions (L x W x H): 23" x 5¾" x 6¾"
- Weight: 29 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
13606	Combination Hand- or Foot-Operated Hydraulic Pump	1
13604	Hand-Operated Hydraulic Pump	1

Battpac® LT BPLT13970P2 Pump

- Small and lightweight
- 60 minutes full recharge
- Highly visible display indicates battery power level
- Socket for 24 VDC external connection
- Operation in any position: on its side or upright
- Separate operation/release buttons protect against accidental operation
- Energy consumption limited by automatic shut-off
- Easily accessible oil top-up inlet



Specifications

- Nominal Pressure: 10,000 psi
- Pumping Capacity: 30 cu. in./min.
- Reservoir Volume: 60 cu. in. (.26 gal.)
- Dimensions (L x W x H): 13½" x 6½" x 12¾"
- Battery: Ni-MH 24V, 3 Ah
- Weight with Battery: 20.9 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPLT13970P2	Battpac® LT Pump includes canvas accessories carrying bag, carrying strap, remote hand controller, two batteries, battery charger and non-drip couplings	1
BPLT13970RB	Ni-MH 24V Replacement battery	1
BPLT13970RP	Canvas backpack for pump	1
BPLT13970DC	Power connecting cable with clips	1
BPLT13970FS	Remote foot pedal controller	1

Battery Performance Guide

In tests, the number of crimps obtained from a fully charged battery, using a remote crimping head, was:

- 102 crimps for Cu connectors on 250 kcmil HD Cu conductor
- 98 crimps for C-Tap connectors on #2 AWG HD Cu conductor
- 76 crimps for Cu sleeve connectors on 500 kcmil HD Cu conductor

Tools and Dies

13600 Electric Hydraulic Pump

- Designed for use with single-acting cylinders and tools rated for 10,000-psi operation
- Supplied with metal carrying case
- 13620 hand switch and 13619 hydraulic hose, both sold separately, required for operation

Specifications

- Motor: ½ hp, 115V, 50–60 Hz, 10 amps
- Reservoir Volume: 104 cu. in. (.45 gal.)
- Pumping Capacity:
170 cu. in./min. at 100 psi
32 cu. in./min. at 1,000 psi
25 cu. in./min. at 5,000 psi
18 cu. in./min. at 10,000 psi
- Basic Pump Dimension:
6" x 8" x 16"
- Weight: 25 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
13600	Electric Hydraulic Pump — hand or foot switch and non-metallic hose (sold separately) required for operation	1

You may also need...

13620	Hand Switch — 10 ft.	1
13589A	Foot Switch — 10 ft.	1
13619	10-ft. Non-Metallic Hose	1
13618	20-ft. Non-Metallic Hose	1
13600S	"Sled" type stand for 13600 pump	1



13610A Electric Hydraulic Pump with Shure-Stake® Control

- Shure-Stake® control mechanism requires 9,800 psi pump pressure before recycling to prevent under-crimping
- Designed for use with single-acting cylinders and tools rated for 10,000-psi operation
- Supplied with metal carrying case

Specifications

- Motor Rating: ½ hp, 115V, 50–60 Hz, 12.5 amps
- Reservoir Volume: 104 cu. in. (.45 gal.)
- Pumping Capacity:
170 cu. in./min. at 100 psi
32 cu. in./min. at 1,000 psi
25 cu. in./min. at 5,000 psi
18 cu. in./min. at 10,000 psi
- Basic Pump Dimension:
8½" x 10½" x 16"
- Weight: 35 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
13610A	Electric Hydraulic Pump with Shure-Stake® control — hand or foot switch and non-metallic hose (sold separately) required for operation	1

You may also need...

13611	Hand Switch — 10 ft.	1
13612	Foot Switch — 10 ft.	1
13619	10-ft. Non-Metallic Hose	1
13618	20-ft. Non-Metallic Hose	1
13797	Inline Gauge	1



Tools and Dies

13810 Heavy-Duty Electric Hydraulic Pump with Shure-Stake® Control

- Designed for perfect crimps every time in heavy-duty OEM applications
- Heavy-duty OEM two-stage pump with high flow rate
- Shure-Stake® control mechanism requires 9,800-psi pump pressure before recycling to prevent under-crimping
- Requires hand or foot control (sold separately)

Specifications

- Motor Rating: 1½ hp, 115V, 60 Hz, 23 amps
- Pumping Capacity: 235 cu. in./min. at 200 psi
61 cu. in./min. at 8,000 psi
- Reservoir Volume: 462 cu. in./2 gal.
- Dimensions (L x W x H): 10¾" x 15" x 20¾"
- Weight: 60 lbs.



CAT. NO.	DESCRIPTION	PKG. QTY.
13810	Heavy-duty electric hydraulic pump with Shure-Stake® control — hand or foot switch and non-metallic hose (sold separately) required for operation	1

You may also need...

13611	Hand switch — 10 ft.	1
13612	Foot switch — 10 ft.	1
13619	10-ft. Non-Metallic Hose	1
13618	20-ft. Non-Metallic Hose	1

Battery Connector Crimp Tools

- Adjustable die crimping tool for Blackburn® cast and tubular battery connectors featuring the Color-Keyed® system
- Available with Shure-Stake® mechanism to ensure a complete crimp every time (BCT840S)
- Crimps casting and tubular battery connectors ranging from #4 AWG to 4/0 AWG
- Heavy-duty crimping tool including die for #8 AWG to 4/0 AWG battery connectors, lugs and splices
- The single die is an integral part of the tool; no dies to lose or misplace
- Available with Shure-Stake® mechanism to ensure a complete crimp every time (TBM5SV)



BCT840, BCT840S



TBM5SV, TBM5V

CAT. NO.	DESCRIPTION	PKG. QTY.
BCT840	Dieless Crimp Tool for cast and tubular battery connectors	1
BCT840S	Dieless Crimp Tool with Shure-Stake® mechanism for cast and tubular battery connectors	1
TBM5V	Ratchet Crimp Tool with die for #8 AWG to 4/0 AWG battery connectors	1
TBM5SV	Ratchet Crimp Tool with Shure-Stake® mechanism and die for #8 AWG to 4/0 AWG battery connectors	1

Miscellaneous Hydraulic Pump Accessories

CAT. NO.	DESCRIPTION	PKG. QTY.
21061	Hydraulic Oil	1
13798	Male Pioneer Quick-Disconnect Coupler	1
13799	Female Pioneer Quick-Disconnect Coupler	1
13614	Metallic Reinforced Hose for OEM operations — 10 ft.	1

Tools and Dies

BCS8-40 Cable Stripper



BCS8-40

CAT. NO.	DESCRIPTION	PKG. QTY.
BCS8-40	Cable stripper for #8 AWG to 4/0 AWG battery cable with replacement blade provided in the handle	1

368-CK Cable Stripper



CAT. NO.	DESCRIPTION	PKG. QTY.
368-CK	Cable stripper for #1 AWG to 1,000 kcmil	1

364RF/366RF Cable Cutters with Fiberglass Handles



CAT. NO.	CABLE SIZE	PKG. QTY.
364RF	Cutter for up to 500 kcmil copper and aluminum	1
366RF	Cutter for up to 1,000 kcmil copper and aluminum	1

*For copper and aluminum cable only. Not for steel.
Replacement blades are available through Tool Services.*

TBM40HC Hand-Operated Hydraulic Cutting Tool

- Specifically designed to cut copper, aluminum and telecommunications cables up to 3.35" O.D.
- Offers dual-speed action: fast advancing speed for rapid approach of blades to cable and slower, more powerful speed for cutting
- Blades manufactured from high-strength, heat-treated steel to ensure long service life
- Head easily opens to enable cutting of existing run cables
- Head rotates 180°, enabling operator to position for easiest use
- Automatic safety valve bypasses oil when reaching maximum pressure
- Pressure release device can also be activated during any point of operation



Specifications

• Max. Cutting Capacity: 3.35" O.D.	• Weight: 14.55 lbs.
• Dimensions (L x W): 25.69" x 6.89"	

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM40HC	Hand-operated hydraulic cutting tool	1

Tools and Dies

CSR750 Cable Cutter

- Special advance stroke mechanism requires less handle force
- Cuts copper or aluminum cables up to 750 kcmil
- Short handles (only 10" long) enable use in tight spaces



CAT. NO.	DESCRIPTION	PKG. QTY.
CSR750	Cutter for up to 750 kcmil copper or aluminum	1

Battpac® TBM54BSCT and TBM54BSCTS Battery-Powered Cutters

- Removable battery — simply change for continuous use
- One-handed control of blade advancement and retraction
- TBM54BSCTS cuts up to 750 kcmil copper, 2 1/8" O.D. aluminum and 636 kcmil ACSR
- TBM54BSCT cuts up to 1,500 kcmil copper and 2 1/8" O.D. aluminum (not for use on ACSR)

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.

CAT. NO.	CONDUCTOR	APPROX. CUTTING CYCLES	
		CRCTBPI & CRCTBP	CRCTPBEI
TBM54BSCTS	750 kcmil Cu	35	105
	636 kcmil ACSR	50	150
TBM54BSCT	1,000 kcmil Cu	45	135
	1,500 kcmil Cu; 2 1/4" Al	30	90

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM54BSCTS	Battery-powered cutter for up to 750 kcmil Cu, 2 1/8" O.D. Al and 636 kcmil ACSR	1
TBM54BSCT	Battery-powered cutter for up to 1,500 kcmil Cu, 2 1/8" O.D. Al (not for use on ACSR)	1



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. CRCTPBEI

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: CRCTQC

Specifications

- Motor: 14.4V DC
- Dimensions (L x W x H): 16" x 4" x 4.5"
- Weight with Battery: 7.2 lbs.

Tools and Dies

Battpac® LT BPLT58BSCT Battery-Powered Cutter

- Cuts copper, aluminum and ACSR up to 1½" O.D.
- Also cuts soft steel bolts, rebar and wire rope
- Forged steel head and cutting blades for strength and durability
- Dual forward speeds enhance productivity
- New, more powerful Ni-MH battery has 50% more energy and less memory effect than old batteries



Specifications

- Max. Cutting Capacity:
 - Soft steel bolts to 1½"
 - Copper, aluminum & ACSR cable to 1½" O.D.
 - Rebar, ground rod & standard guy wire to ¾"
- Wire rope to ¾"
- Dimensions (L x W x H): 19½" x 3¾" x 9¾"
- Battery: Ni-MH 14.4V 3.0Ah
- Weight with Battery: 16.7 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
BPLT58BSCT	Battery-Powered Cutter with carrying case, charger, two batteries and carry strap	1

297-32136 Hydraulic Cutting Head

- Heavy-duty cutter with high-strength steel blades
- Cuts both aluminum and copper wire to 1½" O.D.
- Cutter supplied with carrying case



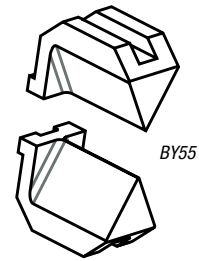
Specifications

- Max. Cutting Capacity (aluminum and copper): 1½" O.D.
- Dimensions (L x W x H): 14½" x 2½" x 4"
- Weight: 8.5 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
297-32136	Hydraulic Cutting Head	1

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	PKG. QTY.
BY55	2/0 AWG	TBM6H and TBM6BSCR	1
40CS	4/0 AWG	TBM14M and 13100A and TBM14BSCR	1
156CS	500 kcmil	TBM15I and TBM15BSCR	1

Type WW Wire Bristle Brush

- Removes oxides from conductor surfaces
- Easy-grip handle with guard to prevent rubber-glove puncture
- Replaceable long-life brushes can be rotated
- Handle and guard coated with durable, nonconductive plastic for safety



CAT. NO.	DESCRIPTION	PKG. QTY.
WWB1	Complete Brush with Handle	1
WRB1	Wire Element Only, Pair	1

21649 Cable Bender



CAT. NO.	DESCRIPTION	PKG. QTY.
21649	Bender for cable up to 750 kcmil	1

CTR-1 C-Tap Removal Tool



CAT. NO.	DESCRIPTION	PKG. QTY.
CTR-1	C-Tap Removal Tool	1

Connectors & Grounding — Blackburn® Compression Connectors Featuring the Color-Keyed® System

Tools and Dies

TBM25MCC Crimp Tool

- For non-insulated metric connectors
- High-precision treated steel jaws
- Ergonomically designed molded plastic grips
- Compact, lightweight and easy to use
- Toggle-action leverage reduces operator effort
- Shure-Stake® mechanism ensures a properly completed crimp each time
- Automatic handle opening after crimping operation



Specifications

- Wire Range: .25–10 sq. mm
- Weight: 1.15 lbs.
- Dimensions (L x W): 9.21" x 2.87"

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM25MCC	Mechanical Crimp Tool	1

TBM26MCC 26-Ton Hydraulic Crimping Head

- Installs crimp-type electrical connectors on cables up to 1,000 kcmil
- Includes male automatic coupler for connection to 10,000-psi hydraulic pump
- Optional adapter available for use with semicircular slotted dies common to most C-shaped heads (12-ton) available on the market
- Sturdy steel carrying case complete with die compartment for holding up to 10 sets of dies available on request



Specifications

- Output Force: 25.8 tons
- Dimensions (L x W): 12.4" x 4.7"
- Operating Pressure: 10,000 psi nominal
- Weight: 11.4 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM26MCC	26-Ton Hydraulic Presshead	1

TBM60MCC 60-Ton Hydraulic Crimping Head

- Installs crimp-type electrical connectors on cables up to 2,000 kcmil
- Includes male automatic coupler for connection to 10,000-psi hydraulic pump
- Optional adapter available for use with semicircular slotted dies common to most C-shaped heads (12-ton) available on the market
- Sturdy steel carrying case complete with die compartment for holding up to 10 sets of dies available on request



Specifications

- Output Force: 58.4 tons
- Dimensions (L x W): 12" x 7.9"
- Operating Pressure: 10,000 psi nominal
- Weight: 39.6 lbs.

CAT. NO.	DESCRIPTION	PKG. QTY.
TBM60MCC	60-Ton Hydraulic Presshead	1

Tools and Dies

Dies for Standard Lugs & Splices (TBM45S – TBM12)

CONNECTOR SIZE				TBM8-750M-1 TBM8-750BSCR TBM8-750			TBM-8/8S	TBM-5/5S	TBM6/6S / 25000		13642M / 13400 HYDRAULIC HEAD		TBM12 HYDRAULIC HEAD	
CODE COPPER	FLEX/24	AL/CU	COLOR CODE	TBM45S	TBM4S	TBM8-750	TBM8 DIE CAT. NO.	TBM5 DIE CAT. NO.	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	C-Taps Only	↑	↑	13461	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						13474	13477	11736	37	TBM12D-3	37
1/0 AWG	225/24	#2 AWG	PINK						13475	13477	11737	42	TBM12D-3	42
2/0 AWG	275/24		BLACK						13474	13477	11738	45	TBM12D-4	45
3/0 AWG	325/24		ORANGE						13474	13477	11739	50	TBM12D-4	50
4/0 AWG	450/24		PURPLE						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 AWG	TAN	13474	13477	11739	50	TBM12D-4	50					
		2/0 AWG	OLIVE	13475	13477	11740	54	TBM12D-5	54					
		3/0 AWG	RUBY	13473	13476	11741	60	TBM12D-5	60					
300 kcmil		4/0 AWG	WHITE	13465		11742	66H	TBM12D-5	66H					
350 kcmil	775/24	250 kcmil	RED	13466	13458	11743	71H	TBM12D-4	71H					
400 kcmil	775/24	300 kcmil	BLUE	13467	4/0 only	11744	76H	TBM12D-4	76H					
	925/24*		N/A			11745	80H							
			N/A											
500 kcmil		350 kcmil	BROWN	13468		11746-TB	87H	TBM12D-3	87H					
600 kcmil	1100/24	400 kcmil	GREEN			11747	94H	TBM12D-3	94H					
			GREEN						94H					
	1325/24**		PINK											
700 kcmil		500 kcmil	PINK			11748	99H	TBM12D-2	99H					
750 kcmil		650 kcmil	BLACK			11749	106H	TBM12D-2	106H					
800 kcmil			ORANGE			11750	107H							
		700 kcmil	PURPLE			11751	112H	TBM12D-1	112H					
900 kcmil	1925/25	750 kcmil	YELLOW			11753	115H	TBM12D-1	115H					
1000 kcmil		800 kcmil												
		1000 kcmil												

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

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

Dies for Standard Lugs & Splices (OD58)

CONNECTOR SIZE				OD58	
CODE COPPER	FLEX/24	AL/CU	COLOR CODE	DIE CAT NO.	DIE CODE NO.
#8 AWG	37/24	#10 AWG	RED	BY15C	21
#6 AWG	61/24	#8 AWG	BLUE	BY17C	24
#4 AWG	91/24	#6 AWG	GRAY	BY19C	29
#2 AWG	125/24		BROWN	BY21C	33
#1 AWG	150/24	#4 AWG	GREEN	BY53C	37
1/0	225/24	#2 AWG	PINK	BY23C	42
2/0	275/24		BLACK	BY28C	45
3/0	325/24		ORANGE	BY25C	50
4/0	450/24		PURPLE	BY27C	54
250 kcmil	550/24		YELLOW	BY31C	62
		#1 AWG	GOLD	BY24C	45
		1/0	TAN	BY25C	50
		2/0	OLIVE	BY31C	54
		3/0	RUBY	BY32C	60

Tools and Dies

Dies for Standard Lugs & Splices (BPLT6BSCR – 21940)

CONNECTOR SIZE			COLOR CODE	BPLT6BSCR/TBM6H				BPLT6BSCR/ BPLT62BSCR			
CODE COPPER	FLEX/24	AL/CU		DIE CAT. NO.	DIE CODE NO.	HEX-FLEX® DIE CAT. NO.	HEX-FLEX® DIE CODE NO.	DIE CAT. NO.	DIE CODE NO.	HEX-FLEX® DIE CAT. NO.†	HEX-FLEX® DIE CODE NO.
8 AWG	37/24	10 AWG	RED	6TON21	21	6TON21X	21X	TBM6221	21	TBM6221X	21X
6 AWG	61/24	8 AWG	BLUE	6TON24	24	6TON24X	24X	TBM6224	24	TBM6224X	24X
4 AWG	91/24	6 AWG	GRAY	6TON29	29	6TON29X	29X	TBM6229	29	TBM6229X	29X
2 AWG	125/24		BROWN	6TON33	33	6TON33X	33X	TBM6233	33	TBM6233X	33X
1 AWG	140/24	4 AWG	GREEN	6TON37	37	6TON37X	37X	TBM6237	37	TBM6237X	37X
1/0	225/24	2 AWG	PINK	6TON42	42	6TON42X	42X	TBM6242	42	TBM6242X	42X
2/0	275/24		BLACK	6TON45	45	6TON45X	45X	TBM6245	45	TBM6245X	45X
3/0	325/24		ORANGE	6TON50	50	6TON50X	50X	TBM6250	50	TBM6250X	50X
4/0	450/24		PURPLE	6TON54	54	6TON54X	54X	TBM6254	54	TBM6254X	54X
250 kcmil	550/24		YELLOW	6TON62	62	6TON62X	62X	TBM6262	62	TBM6262X	62X
		1 AWG	GOLD	6TON45	45	6TON66X	66X	TBM6245	45		
		1/0	TAN	6TON50	50			TBM6250	50		
		2/0	OLIVE	6TON54	54			TBM6254	54		
		3/0	RUBY	6TON60	60			TBM6260	60		
300 kcmil		4/0	WHITE	6TON66	66H			TBM6266	66	TBM6266X	66X
350 kcmil	775/24 (short)	250 kcmil	RED	6TON71	71H			TBM6271	71		
400 kcmil	775/24 (long)	300 kcmil	BLUE	6TON76	76H			TBM6276	76		
	925/24*			6TON80	80H			TBM6280	80		
500 kcmil		350 kcmil	BROWN	6TON87	87H			TBM6287	87		
600 kcmil	1100/24	400 kcmil	GREEN	6TON94	94H						
			GREEN								
700 kcmil	1325/24**	500 kcmil	PINK		99H						
750 kcmil		650 kcmil	BLACK		106H						
800 kcmil			ORANGE		107H						
		700 kcmil	PURPLE		112H						
900 kcmil	1925/24	750 kcmil	YELLOW		115H						
1000 kcmil		800 kcmil	N/A								
		1000 kcmil	N/A								

*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 TBM15I without adapter.

† HEX-FLEX® Dies are sold separately in halves. The catalog numbers shown in the chart above are for the upper half of the die.

For the bottom half (the indenter), order one Cat. No. 6TONX for all 6TONX Series, one Cat. No. TBM62X for all TBM62X Series Die Codes 21X–66X, one Cat. No. 15500X for 15500X Series Die Codes 21X–94X and one Cat. No. 15600X for all 15600X Series Die Codes 62X–115X.

Dies for Standard C-Taps

CONNECTOR	COLOR CODE	TBM25S DIE NO.	TBM5/5S DIE NO.	TBM6/6S DIE NO.	TBM8/8S DIE NO.	BPLT6BSCR BPLT62BSCR DIE NO.	TBM6H/BPLT6BSCR DIE NO.
54705	RED	Red Nest	13454	13475/13477	13461	TBM6221	6TON21
54710	BLUE	Blue Nest	13454	13475/13477	13461	TBM6224	6TON24
54715	GRAY	Grey Nest	13454	13472/13476	13461	TBM6229	6TON29
54720	BROWN	Brown Nest	13454	13474/13477	13461	TBM6233	6TON33
54725	GREEN	Green Nest	13455	13474/13477	13462	TBM6237	6TON37
54730	PINK	—	13455	13475/13477	13462	TBM6242	6TON42
54735	BLACK	—	13455	13474/13477	13462	TBM6245	6TON45
54740	ORANGE	—	13455	13474/13477	13462	TBM6250	6TON50
54745	PURPLE	—	13456	13475/13477	13463	TBM6254	6TON54
54750	YELLOW	—	13456	13473/13478	13463	TBM6262	6TON62

Tools and Dies

BPLT14BSCR/TBM14M TBM14MC/13100A/JB12B				BPLT15BSCR/ TBM15I***								21940 (40 TON)	
DIE CAT. NO.	DIE CODE NO.	HEX-FLEX® DIE CAT. NO.†	HEX-FLEX® DIE CODE NO.	DIE CAT. NO.	DIE CODE NO.	FULL DIE CAT. NO.	FULL DIE, DIE CODE NO.	HEX-FLEX® DIE CAT. NO.†	HEX-FLEX® DIE CODE NO.	HEX-FLEX® FULL DIE CAT. NO.†	HEX-FLEX® DIE CODE NO.	DIE CAT. NO.	DIE CODE NO.
15520	21	15520X	21X	15520	21	15520F	21	15520X	21X				
15522	24	15522X	24X	15522	24	15522F	24	15522X	24X				
15527-CK	29	15527X	29X	15527-CK	29	15527F	29	15527X	29X			11401	29
15528	33	15528X	33X	15528	33	15528F	33	15528X	33X			11402	33
15513-CK	37	15513X	37X	15513-CK	37	15513F	37	15513X	37X			11333	37
15508	42	15508X	42X	15508	42H	15508F	42	15508X	42X			11334	42
15526	45	15526X	45X	15526	45	15526F	45	15526X	45X			11405	45
15530	50	15530X	50X	15530	50	15530F	50	15530X	50X			11406	50
15511	54	15511X	54X	15511	54H	15511F	54	15511X	54X			11407	54H
15510-CK	62	15510X	62X	15510-CK	62	15510F	62	15510X	62X	15662X	62X	297-31669-7	62
15526	45			15526	45							11405	45
15530	50			15530	50							11406	50
15511	54			15511	54H							11407	54
15532-CK	60			15532-CK	60	15532F	60					11408	60
15534	66	15534X	66X	15534	66	15534F	66	15534X	66X	15666X	66X	11409	66
15514-CK	71H	15514X	71X	15514-CK	71H	15514F	71	15514X	71X	15671X	71X	11363	71
15512	76	15512X	76X	15512	76	15512F	76	15512X	76X	15676X	76X	11410	76
15517	80H	15517X	80X	15517	80H			15517X	80X	15606X	80X		
15506	87H	15506X	87X	15506	87H	15506F	87H	15506X	87X	15687X	87X	11423	87
15536-CK	94H	15536X	94X	15611	94H			15536X	94X	15611X	94X	11364	94
15505	99H			15536-CK	94H								
15515-CK	106H			15505	99H	15505F	99H			15605X	99X	11424	99
15540	107H			15515-CK	106H	15515F	106H			15615X	106X	74506	106
				15608	107H					15608X	107X	11425	107
				15609	112H							11426	112
15504	115H			15504	115H	15504F	115H			15604X	115X	11308	115
				15603	125H							11416	125
				15602	140H							11418	140
				15601	150H							11419	150

Dies for Large C-Taps

CONNECTOR	COLOR CODE	13642M/13400 DIE NO.	TBM12 DIE NO.	13100A/JB12B/TBM14M/ BPLT14BSCR DIE NO.	TBM15I/ BPLT15BSCR DIE NO.
54755	BLUE	11744	TBM12D-4	15512	15512
54760	BROWN	11746-TB	TBM12D-3	15506	15506
54765	PINK	11748	TBM12D-2	15505	15505
54770	BLACK	11749	TBM12D-2	15515-CK	15515-CK
54775	YELLOW	11753	TBM12D-1	15504	15504
54780	WHITE	—	—	—	15603
54785	N/A	—	—	—	15603
54790	N/A	—	—	—	15603

Tools and Dies

Dies for Aluminum H-Taps

CONNECTOR	COLOR CODE	TBM5/5S DIE NO.	TBM6/6S DIE NO.	TBM8/8S DIE NO.	TBM12 DIE NO.	TBM6H/ BPLT6BSCR DIE NO.	13100A/JB12B/ TBM14M/ BPLT14BSCR DIE NO.	TBM15/ BPLT15BSCR DIE NO.
63105	ORANGE	13455	13474/13477	13462	TBM12D-4	6TON50	15530	15530
63110	GREEN	—	13470	—	TBM12D-H	OJB	15501A	15501A
63118		—	13470	—	TBM12D-H	OJB	15501A	15501A
63125		—	13470	—	TBM12D-H	OJB	15501A	15501A
63140	BLUE	—	13471	—	TBM12D-H	DBL	15502	15502
63148	RED	—	13471	—	TBM12D-H	DBL	15502	15502
63160		—	—	—	—	—	—	15612
63169		—	—	—	—	—	—	15620
63170	BLACK	—	—	—	—	—	—	15620
63180		—	—	—	—	—	—	15620

Dies for Copper H-Taps

CONNECTOR	COLOR CODE	TBM6H/ BPLT6BSCR DIE NO.	13100A/JB12B/ TBM14M/ BPLT14BSCR DIE NO.	TBM15/ BPLT15BSCR DIE NO.
CHT814-10	GREEN	6TON37R	15CA37RCH	15CA37RCH
CHT214-9	BROWN	6TON71R	15CA71RCH	15CA71RCH
CHT250214-8	PURPLE	—	15CA80RCH	15CA80RCH
CHT25014-7		—	15CA80RCH	15CA80RCH
CHT2502-6		—	15CA80RCH	15CA80RCH
CHT50010-5	BROWN	—	—	15612CH
CHT50040-4		—	—	15612CH
CHT75010-3	YELLOW	—	—	15620CH
CHT750350-2		—	—	15620CH
CHT75040-11		—	—	15620CH
CHT750350-1F		—	—	15620CHF

Dies for High-Voltage Connectors

DIE CODE NO.	TBM15I, TBM14M, 13100A	
	ADAPTER TYPE**	NON-ADAPTER TYPE
29R	15CA29R	—
33R	15CA33R	—
37R	15CA37R	—
42R	15CA42R	—
45R	15CA45R	—
49R	15CA49R	—
54R	15CA54R	—
60R	15CA60R	—
66R	15CA66R	—
71R	15CA71R	—
76R	15CA76R	—
87R	15CA87R	—
94R	15CA94R†	—
106R	15CA106R†	—
125R	—	15C125R*

*To be used with TBM15I only.

**Use 15500-TB adapter with TBM15I tool.

†Not UL Listed in TBM14M/13100A tool.

Dies for Figure 6 & Figure 8 Ground Connectors

CONNECTOR	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" #4 – #5 Rebar	15G126R	15G86R
54900L	250 kcmil – 500 kcmil	#2 Str. – 250 kcmil	⅝" – ¾" Rod	⅝" – ¾" #4 – #5 Rebar	15G121R	15G121R