CATALOG

Compression connectors

Color-Keyed®



ABB’s Color-Keyed® brand was the industry’s first color-coded compression connector system. This unique, error-reducing system was developed by Thomas & Betts and established a new industry standard by using a color-coded connector matched to a color-coded crimp die. The combination of compression tool with matching dies forms the connector and conductor into a solid, homogeneous mass to provide an optimum electrical bond between connector and conductor.

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Overview
The Color-Keyed method is better

The Color-Keyed method of installing compression connectors on power cables is designed to provide a high degree of reliability in electrical wiring.

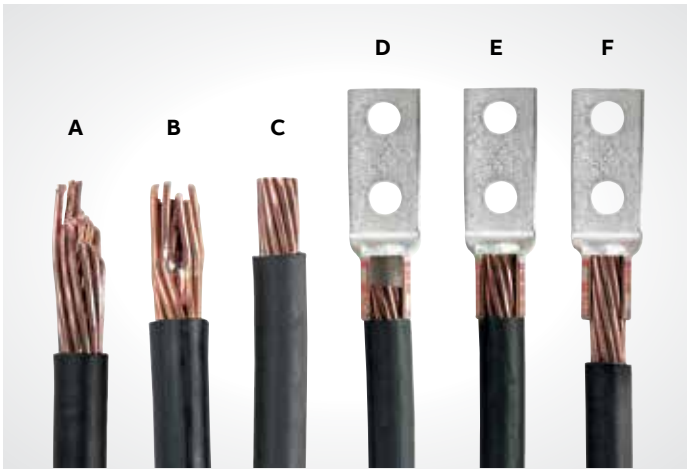
This method allows electrical workers to make installations with little effort and at a considerable savings in time. The benefit, of course, is a high-quality connection at a low installed cost.

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

Just four easy steps to a verifiable connection!



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01 Strip the insulation
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02 Stripping types and conductor connections

Step 1
Carefully strip the insulation on de-energized wires to avoid nicking or cutting conductors (wire brush if required).

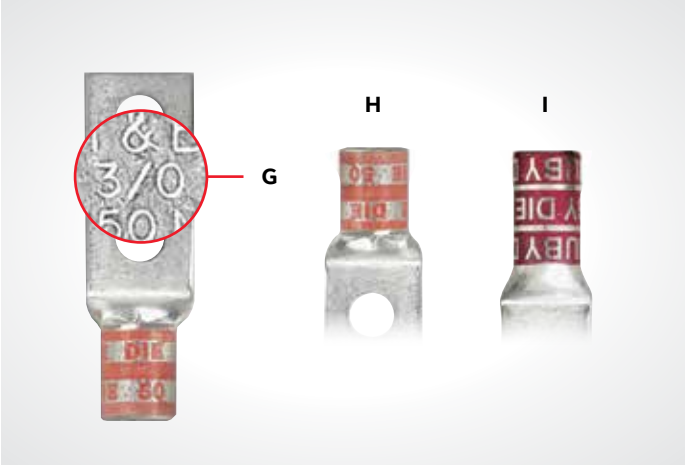
Stripping types:
- **A** – Strand cut
- **B** – Nicked strands
- **C** – Good strip

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

Conductor connections:
- **D** – Strip length too short
- **E** – Strip length just right
- **F** – Strip length too long



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* Aluminum lugs with a "9" indicate 90 °C rating
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03 Select the connector for the cable size
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04 Connector types and markings

Step 2
Determine the proper Color-Keyed connector for the cable size being used. Connectors are marked to show cable size and material:

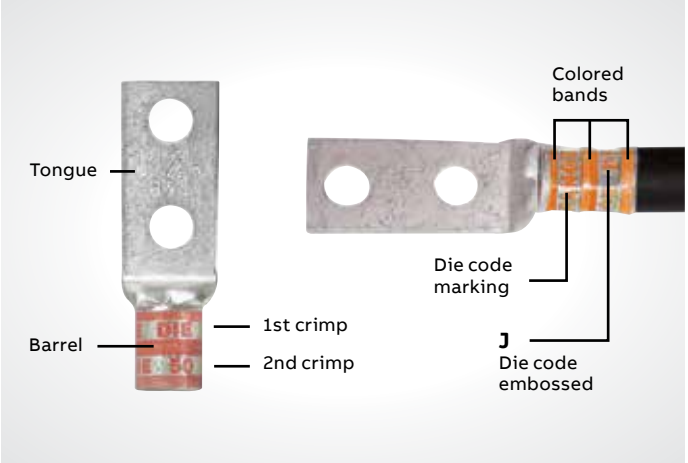
- **G** – Cable size
- **H** – Copper (die located BETWEEN bands)
- **I** – Aluminum (die located ON bands)

Connector types:

- 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



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05 Select the installing die
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06 Color-Keyed bands and die location for compression

Step 3
Select the proper installing die and appropriate tool. Color-Keyed connectors have colored bands or colored dots that correspond to color markings on the dies.

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

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 (**J**).

Overview
Precision dies

The Color-Keyed method using 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.

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01 Locate tool with correct die in proper position on connector and activate tool.
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02 Before compression, a typical cross section of cable and connector consists of about 75% metal and 25% air.
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03 After air compression by the ABB Method, the cross section looks like this, nearly 100% metal with virtually no air spaces.

Color-Keyed 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 Color-Keyed method. The precision hardened steel dies exert tremendous, controlled pressure on the connector and conductor. When used with the appropriate tool, 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.

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01



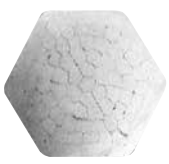
The circumferential compression creates a large area of high-pressure contact between cable and connector which, in turn, helps assure high conductivity, low resistance, and high pullout values which exceed UL requirements. These features result in a permanent, low installed cost connection. You can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

The Color-Keyed system indicates where to place the installing die
Color-Keyed 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 accomplished by 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.

Color-Keyed dies offer inspection capability
Dies that are used in ABB 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 can compare the die code number embossed on the connector with the die table to confirm that the proper connector was compressed with the correct die for that particular size conductor.



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TBM62PCR-LI
Handheld 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 help ensure a completed crimp. For connectors up to 500 kcmil Cu, 350 kcmil Al.

Quality tooling with the Shure Stake® mechanism

ABB 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 assurance of a fully compressed connection. ABB compression tools develop uniform, controlled pressure to each connector within their size range. ABB offers electric and battery- powered hydraulic pumps with a Shure Stake feature that helps ensure a full cycle compression.

Color-Keyed method components meet industry standards
Depending on the application, all ABB copper connectors meet UL Std. 486A for code stranded and 24 gauge flex, CSA Std. C22.2, No. 65 600 V requirements for power and UL Std. 467, CSA Std. 22.2 No. 0.4 requirements for direct buried grounding.

Color-Keyed 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.

Color-Keyed two-hole lugs are ideal for bus bar applications that require two bolts to prevent lug rotation. The Color-Keyed method is one of the most efficient, highest quality connections that have been engineered and deliver superior electrical performance and highest reliability.

Color-Keyed compression connectors help eliminate risk of problems relating to loose connections when installed properly.

High-grade materials incorporated in Color-Keyed method
Low installed cost connections of superior quality can be achieved only through the use of high-grade components. That is an important element of the Color-Keyed method – quality products you can depend on.

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

High-conductivity cast aluminum connectors are available for heavy-duty applications.

Overview
Special lugs – Angled, shaped and trimmed

ABB can help solve difficult wire bending and terminating problems in confined power distribution panels, switchgear and motor control enclosures.

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01 Special lugs – Angled, shaped & trimmed
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02 Examples of customized connectors for copper cables

Our broad design and production capabilities enable us to deliver virtually any lug you need:
- Straight, 15°, 30°, 45°, 60° and 90° angle
- Stacking or non-stacking
- Narrow tongue or standard
- Tin, silver, lead, nickel

ABB offers an extensive line of copper Color-Keyed lugs for #8 AWG through 1000 kcmil flex and code cables. The lug tongues are modified in several different configurations, customizable to meet your 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.

Customized connectors for copper cables
- Standard and special tongue angles, stacking and nonstacking, 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.

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Overview
Order form

Order form (For 54100, 54200, 54800 & 54900 Series copper lugs only):

Catalog number: **Quantity:**

Notes:

Cable:

Code: **Weld:**

#8 **#6** **#4** **#2** **#1** **1/0** **2/0** **3/0** **4/0**

250 kcmil & up (code only)

Notes:
1) Lacking of any of the extra features noted on the "MADE-UP" catalog number, the standard cat. no. features will be followed.

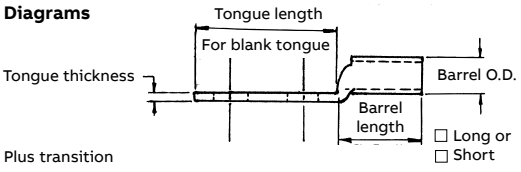
2) If either bolt hole size or distance between bolt holes needs to be changed from standard cat. no., both code numbers will appear on the "MADE-UP" cat. no. (See example below)

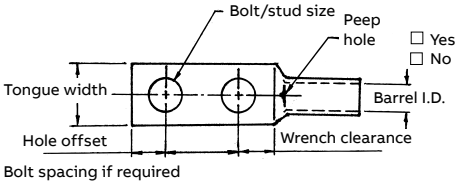
All "made-up" catalog numbers start with a standard or basic catalog number and are followed by the customer-required extra features: tongue shape, bolt hole size, distance between bolt holes, stacking, plating and inspection hole (peep hole). A code letter or a number has been assigned to each extra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

Code table

Tongue shape		Bolt holes			Bolt hole centers		Stacking		Finish (plating)		Inspection hole (long barrel)		Inspection hole (short barrel)	
Type	Code	Size 0.020 (in.)		Code	Distance 0.015 (in.)	Code	Type	Code	Type 1	Code	I.D.	Code	I.D.	Code
15°	UI	#8	0.173	02	½	08	Top	T**	Silver plate	SP	Peep hole	PH	Blind end	BE
30°	UT	#10	0.204	03	⅝	10	Bottom	B	Lead plate	LP				
45°	UF	¼	0.281	04	¾	12			Nickel plate	NP				
60°	US	5/16	0.344	05	⅞	14			Plain finish	PF				
90°	UB	⅜	0.406	06	1	16			No marking	NM				
Blank	BT	½	0.531	08	1⅛	18			Not QTP if suffix other than -pf or standard tin plate					
(No bolt hole)		⅝	0.656	10	1¼	20								
		¾	0.812	12	1⅜	22								
		⅞	0.937	14	1½	24								
		1	1.062	16	1⅝	26								
					1¾	28								
					1⅞*	30								
					2*	32								

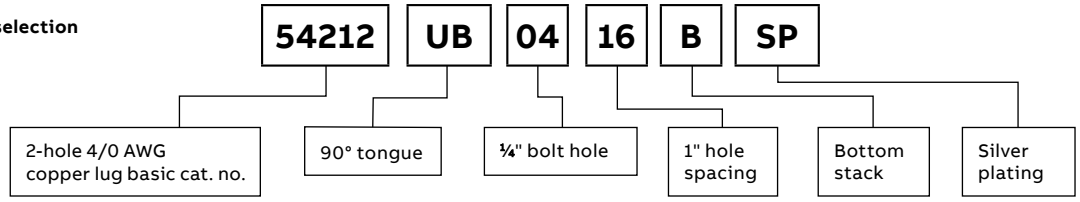
Diagrams





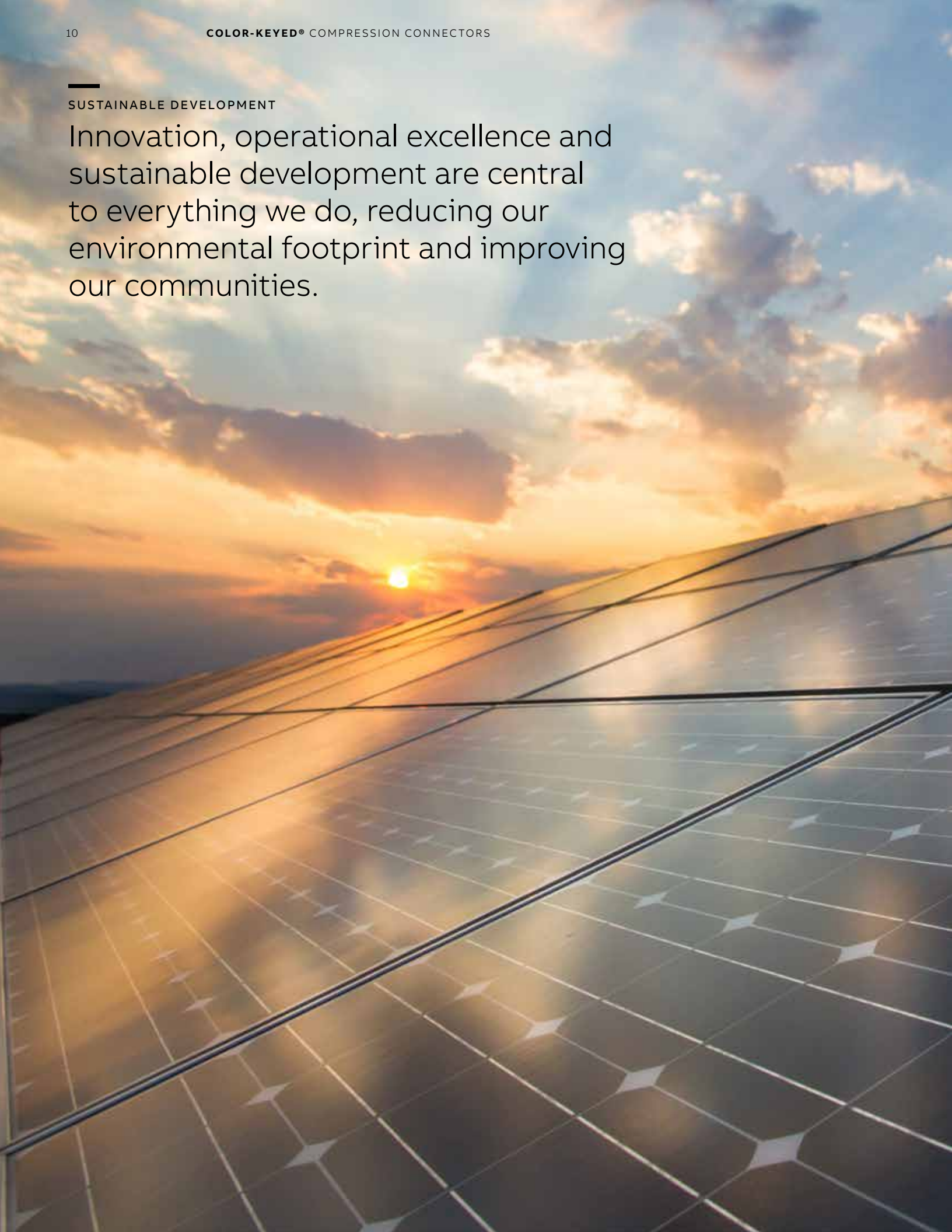
* These bolt centers not available for bolt holes larger than 13/16".
** Not required for 45° & 90° top stacking.

Catalog number selection



SUSTAINABLE DEVELOPMENT

Innovation, operational excellence and sustainable development are central to everything we do, reducing our environmental footprint and improving our communities.





Overview

Tongue specifications (see chart “A” for dimensions)

Stud sizes:

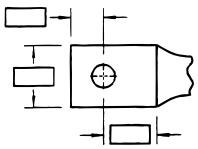
#8	#10	¼"	5⁄16"	⅜"	½"	⅝"	¾"	⅞"	1"
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Chart A

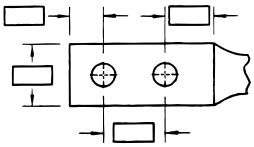
Nominal bolt hole size	0.015	Hole offset 0.030 (in.)	Wrench clearance min. (in.)	Tongue width cable size (in.) #8 Code #8 Weld	#6 Code #6 Weld	#4 Code	#2 Code #4 Weld	#1 Code #2 Weld	1/0 Code #1 Weld	2/0 Code 1/0 Weld	3/0 Code 2/0 Weld	4/0 Code 3/0 Weld	250 Code
#8	0.173	0.200	0.240	0.406	0.437	0.562	0.593	0.672	0.750	0.825	0.937	1.030	1.125
#10	0.204	0.218	0.250	0.406	0.437	0.562	0.593	0.672	0.750	0.825	0.937	1.030	1.125
¼	0.281	0.250	0.312	0.469	0.500	0.562	0.593	0.672	0.750	0.825	0.937	1.030	1.125
5⁄16	0.344	0.375	0.406	0.562	0.562	0.562	0.675	0.672	0.750	0.825	0.937	1.030	1.125
⅜	0.406	0.375	0.440	0.578	0.578	0.594	0.675	0.672	0.750	0.825	0.937	1.030	1.125
½	0.531	0.500	0.562	–	–	–	0.750	0.750	0.750	0.825	0.937	1.030	1.125
⅝	0.656	0.625	0.875	–	–	–	–	–	–	–	0.937	1.030	1.125
¾	0.812	0.750	0.770	–	–	–	–	–	–	–	–	–	–
⅞*	0.937	0.875	0.890	–	–	–	–	–	–	–	–	–	–
1*	1.062	0.937	1.000	–	–	–	–	–	–	–	–	–	–

Diagrams

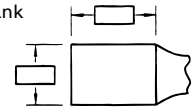
Single hole ☐



Double hole ☐



Blank ☐



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

Chart B

Cable size (AWG or kcmil)	Tongue thickness (in.)	Straight lug barrel length plus transition (in.) Short	Long	Barrel (in.) O.D.	I.D.	Dim “X” Stacked lugs (in.) Straight	45°	90°	Dim “Y” (in.) Short	Long	Dim “H” (in.) Short	Long
#8	0.080	0.635	0.935	0.260	0.180	0.158	0.478	0.394	0.595	0.808	0.779	1.079
#6	0.081	0.675	0.975	0.296	0.215	0.134	0.544	0.432	0.587	0.799	0.767	1.067
#4	0.099	0.685	0.985	0.365	0.266	0.175	0.622	0.502	0.637	0.849	0.838	1.138
#2	0.108	0.815	1.115	0.410	0.302	0.216	0.649	0.535	0.711	0.923	0.958	1.258
#1	0.106	0.825	1.275	0.467	0.361	0.212	0.731	0.592	0.710	1.028	0.956	1.406
1/0	0.125	0.975	1.325	0.520	0.396	0.250	0.789	0.646	0.794	1.042	1.075	1.425
2/0	0.125	0.965	1.315	0.571	0.446	0.250	0.859	0.696	0.829	1.077	1.125	1.475
3/0	0.125	1.085	1.435	0.632	0.507	0.250	0.946	0.757	0.900	1.148	1.225	1.575
4/0	0.137	1.255	1.705	0.701	0.564	0.274	1.031	0.826	1.015	1.333	1.387	1.837
250	0.137	1.375	1.925	0.766	0.629	0.274	1.123	0.891	1.085	1.474	1.487	2.037
300	0.153	1.900	2.675	0.850	0.660	0.459	1.226	0.975	1.180	1.726	1.924	2.679
350	0.177	2.090	2.896	0.926	0.720	0.531	1.333	1.103	1.267	1.830	2.096	2.896
400	0.173	2.460	2.980	0.960	0.757	0.519	1.370	1.085	1.551	1.913	2.484	2.984
500	0.218	2.670	3.610	1.100	0.852	0.654	1.514	1.225	1.629	2.266	2.669	3.619
600	0.244	2.900	3.490	1.200	0.926	0.732	1.630	1.325	1.762	2.147	2.897	3.497
700	0.228	2.784	–	1.255	0.997	0.684	1.662	1.375	1.780	–	3.011	–
750	0.270	3.050	3.925	1.330	1.030	0.810	1.745	1.455	1.827	2.434	3.050	3.925
800	0.266	3.213	–	1.375	1.079	0.800	1.728	1.625	1.952	2.787	3.213	4.554
900	0.313	3.450	4.550	1.500	1.145	0.940	1.900	1.650	2.065	–	1.387	–
1,000	0.297	3.356	4.500	1.550	1.203	0.890	2.070	1.675	2.031	2.787	1.487	4.506

Note: Stacking lugs are available for one bolt only. Consult factory: straight: 700 kcmil & up – 45°: 400 kcmil & up, 90°: 500 kcmil & up.

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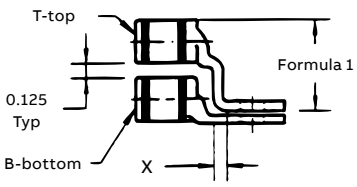
Chart C

	Tongue width 0.030 code cable size (in.)										
Bolt hole 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	–	–	–	–	–	–	–	–	–	–	–
1/4	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
5/16	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
3/8	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
1/2	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
5/8	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
3/4	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

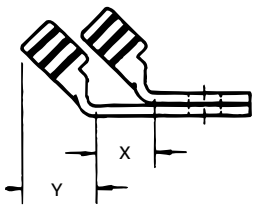
Diagrams

Formula 1 = (.125 + 2 (O.D.) + .037 – Tongue thickness)

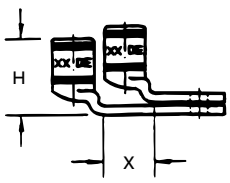
Straight stack



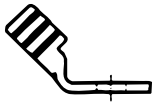
45° stack



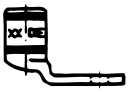
90° stack



45°



90°



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

Copper compression lugs – One-hole

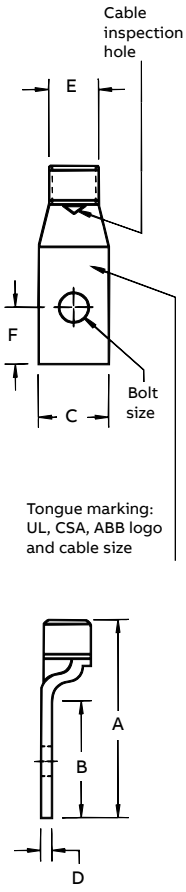
One-hole lugs – Standard barrel 600 V to 35 kV



Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – Standard barrel 600 V to 35 kV

		Wire size			Dimensions (in)							
	Cat. no.	Code (AWG or kcmil)	Flex class G, H, I, K, M†	Bolt size (in.)	A	B	C	D	E	F	Die code	Die color
Diagrams	54101	#14-10	–	1/4	1.23	0.56	0.50	0.05	0.20	1/4	ERG4002 ERG4005	"C" nest
	256-30695-1351			#8	1.36	0.68	0.36	0.05	0.20	1/4		
	256-30695-1352			1/4	1.36	0.68	0.41	0.05	0.20	1/4		
	256-30695-263			1/4	1.69	0.81	0.50	0.07	0.20	1/4		
	54104	#8	23 Navy	#10	1.16	0.50	0.39	0.08	0.25	7/32	21	Red
	54130		#8 Weld	1/4	1.20	0.61	0.45	0.07	0.25	1/4	21	
	54131		37/24 = 14.9 kcmil	5/16	1.33	0.64	0.56	0.05	0.25	9/32	21	
	54132			3/8	1.33	0.64	0.56	0.05	0.25	9/32	21	
	256-30695-424			1/2	1.75	1.31	1.00	0.13	0.25	1/2	21	
	256-30695-1361	#6	#30 Navy	#12	1.23	0.53	0.44	0.07	0.31	7/32	24	Blue
	54134		#6 Weld	#10	1.23	0.53	0.44	0.07	0.31	7/32	24	
	54105		61/24 = 24.6 kcmil	1/4	1.23	0.53	0.44	0.07	0.31	7/32	24	
	54135		133/0.014	5/16	1.41	0.67	0.60	0.07	0.31	5/16	24	
	54136			3/8	1.41	0.67	0.60	0.07	0.31	5/16	24	
	256-30695-282			3/8	1.41	0.75	0.56	0.06	0.31	5/16	24	
	256-30695-422			1/2	1.75	1.31	1.00	0.13	0.31	1/2	24	
	256-30695-1362	#4	#4 Weld	#12	1.38	0.60	0.55	0.09	0.37	1/4	29	Gray
	54138		40–50 Navy	#10	1.38	0.60	0.55	0.09	0.37	1/4	29	
	54106		91/24 = 36.7 kcmil	1/4	1.38	0.60	0.55	0.09	0.37	1/4	29	
	54139		133/0.0177	5/16	1.42	0.66	0.61	0.07	0.37	5/16	29	
	54140		49/0.029	3/8	1.42	0.66	0.61	0.07	0.37	5/16	29	
	256-30695-233		#5 91/24	3/8	1.56	0.75	0.59	0.06	0.37	5/16	29	
	256-30695-264			1/2	2.20	1.40	1.00	0.06	0.37	1/2	29	
	54107	#2	#60 Navy	1/4	1.50	0.65	0.59	0.11	0.41	1/4	33	Brown
	54142-TB		125/24 = 50.5 kcmil	5/16	1.73	0.88	0.59	0.11	0.41	3/8	33	
	54143-TB		#3 Weld	3/8	1.65	0.80	0.59	0.11	0.41	3/8	33	
	54145-TB			1/2	1.92	1.08	0.75	0.08	0.41	1/2	33	
	54108	#1	75 Navy, #2 Weld	1/4	1.50	0.65	0.68	0.11	0.47	1/4	37	Green
	54147		150/24 = 60.5 kcmil	5/16	1.73	0.93	0.68	0.11	0.47	3/8	37	
	54148		175/24 = 70.6 kcmil	3/8	1.78	0.98	0.68	0.11	0.47	3/8	37	
	54150		133/0.0223	1/2	2.10	1.25	0.76	0.11	0.47	1/2	37	
	54152-TB	1/0	#100 Navy	1/4	1.60	0.65	0.75	0.13	0.52	1/4	42	Pink
	54153-TB		#1 Weld	5/16	1.83	0.88	0.75	0.13	0.52	3/8	42	
	54109		225/24 = 90.8 kcmil	3/8	1.88	0.93	0.75	0.13	0.52	3/8	42	
	54155-TB		133/0.0254	1/2	2.20	1.25	0.75	0.13	0.52	1/2	42	
	256-30695-1383			5/8	2.54	1.50	0.88	0.13	0.52	5/8	42	



† Contact technical services for specific stranding listings.

Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – One-hole

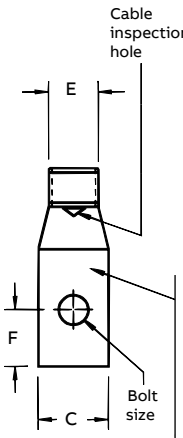
One-hole lugs – Standard barrel 600 V to 35 kV (continued)



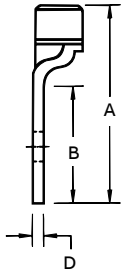
Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – Standard barrel 600 V to 35 kV

Diagrams



Tongue marking: UL, CSA, ABB logo and cable size



Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	Die code	Die color
54157	2/0	125 Navy 1/0 Weld 275/24 = 111 kcmil 427/0.0155 133/0.0282	¼	1.65	0.65	0.83	0.13	0.57	¼	45	Black
54158			5/16	1.88	0.88	0.83	0.13	0.57	3/8	45	
54110			3/8	1.93	0.93	0.83	0.13	0.57	3/8	45	
54160			½	2.25	1.25	0.83	0.13	0.57	½	45	
256-30695-131			5/8	2.56	1.50	0.83	0.13	0.57	5/8	45	
54162-TB	3/0	150 Navy, 2/0 Weld 325/24 = 131 kcmil 133/0.0316, 259/0.0227 427/0.0177	¼	1.75	0.65	0.92	0.13	0.63	¼	50	Orange
54163-TB			5/16	1.98	0.88	0.92	0.13	0.63	3/8	50	
54111			3/8	2.03	0.93	0.92	0.13	0.63	3/8	50	
54165-TB			½	2.35	1.25	0.92	0.13	0.63	½	50	
54167	4/0	200 Navy 3/0 Weld 450/24 = 182 kcmil 703/0.0154	¼	1.90	0.65	1.03	0.14	0.70	¼	54	Purple
54168			5/16	2.13	0.87	1.03	0.14	0.70	3/8	54	
54112			3/8	2.18	0.93	1.03	0.14	0.70	3/8	54	
54170			½	2.50	1.25	1.03	0.14	0.70	½	54	
256-30695-1174			¾	2.86	1.56	1.03	0.14	0.70	¾	54	
58161	–	4/0 Weld 550/24 = 222 kcmil 133/0.0399 259/0.0286 637/0.0183	¼	2.23	0.78	1.25	0.15	0.79	3/8	62	Yellow
58162			5/16	2.33	0.88	1.25	0.15	0.79	3/8	62	
58163			3/8	2.38	0.93	1.25	0.15	0.79	3/8	62	
58165			½	2.76	1.25	1.25	0.15	0.79	½	62	
58166			5/8	3.03	1.58	1.25	0.15	0.79	5/8	62	
54172-TB	250	250 Navy	¼	2.00	0.65	1.13	0.14	0.77	**½**	62	
54173			5/16	2.23	0.88	1.13	0.14	0.77	3/8	62	
54174			3/8	2.28	0.93	1.13	0.14	0.77	3/8	62	
54113			½	2.60	1.25	1.13	0.14	0.77	½	62	
58168	–	250 Weld, 50/24 = 262 kcmil, 259/0.0311, 703/0.0189	½	2.70	1.25	1.25	0.15	0.85	½	66	White
54178	300	300 Navy	5/16	2.33	0.88	1.25	0.15	0.85	3/8	66	
54179			3/8	2.43	0.93	1.25	0.15	0.85	3/8	66	
54114			½	2.70	1.25	1.25	0.15	0.85	½	66	
54181			5/8	3.03	1.58	1.25	0.15	0.85	3/8	66	
58171	–	300 Weld, 259/.034, 427/0.0265, 889/0.0183 775/24 = 313 kcmil	½	2.85	1.25	1.36	0.18	0.93	½	71	Red
256-30695-112	350	350 Navy	3/8	2.90	1.13	1.36	0.18	0.93	½	71	
54115			½	2.85	1.25	1.36	0.18	0.93	½	71	
54183			5/8	3.21	1.58	1.36	0.18	0.93	**¾**	71	

† Contact technical services for specific stranding listings.

Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs — One-hole

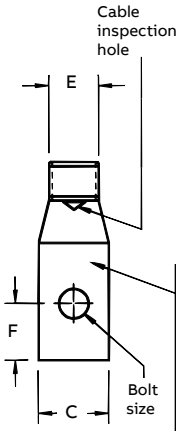
One-hole lugs – Standard barrel 600 V to 35 kV (continued)



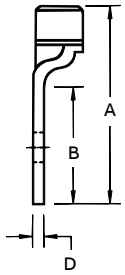
Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – Standard barrel 600 V to 35 kV

Diagrams



Tongue marking: UL, CSA, ABB logo and cable size



Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	Die code	Die color
58174	–	350 Weld, 259/0.0368, 427/0.0285, 703/0.0224, 889/0.0201	1/2	3.35	1.25	1.61	0.22	1.09	1/2	76	Blue
54116	400	400 Navy	1/4	3.20	1.25	1.41	0.17	0.96	1/2	76	
54185			5/8	3.53	1.58	1.41	0.17	0.96	3/4	76	
256-30695-1403	–	400 Weld	3/8	3.31	1.31	1.61	0.22	1.04	5/8	80	–
58177		925/24 = 373 kcmil 259/0.0393 or 427/0.0306	1/2	3.31	1.25	1.61	0.22	1.04	1/2	80	
256-30695-339	500	500 Navy	3/8	3.10	1.00	1.61	0.22	1.10	3/8	87	Brown
54118			1/2	3.30	1.25	1.61	0.22	1.10	1/2	87	
54187			5/8	3.63	1.58	1.61	0.22	1.10	5/8	87	
58180	–	450 Flex, 1127, 4522 1100/24 = 444 kcmil	5/8	3.79	1.58	1.75	0.24	1.20	5/8	94	Green
256-30695-1370	600	–	1/2	3.65	1.44	1.75	0.24	1.20	31/64	94	
54120			5/8	3.79	1.58	1.75	0.24	1.20	5/8	94	
54122-TB	700	–	5/8	3.68	1.58	1.84	0.23	1.26	5/8	99	Pink
256-30695-1404	–	1325/24 = 535 kcmil 500 Flex 427/0.0342 259, 4125, 5054	3/8	3.29	1.29	1.81	0.28	1.25	21/32	99	
256-30695-1405			1/2	3.29	1.29	1.81	0.28	1.25	21/32	99	
256-30695-840			1/2	4.00	1.69	1.81	0.28	1.25	31/64	99	
58182			5/8	3.83	1.58	1.81	0.28	1.25	5/8	99	
256-30695-193	750	600 Flex 427	1/2	4.00	1.69	1.94	0.27	1.33	31/64	106	Black
54123-TB			5/8	3.87	1.58	1.94	0.27	1.33	5/8	106	
58184	–	1600/24 = 646 kcmil	5/8	3.80	1.58	1.94	0.27	1.33	5/8	106	
54124-TB	800	800 Navy	5/8	4.04	1.58	2.01	0.27	1.38	5/8	107	Orange
256-30695-843	900	1925/24 = 777 kcmil 900 Navy	1/2	4.31	1.81	2.17	0.31	1.50	7/8	115	Yellow
54126			5/8	4.15	1.58	2.17	0.31	1.50	5/8	115	
54126											
54128	1000	1000 Navy	5/8	4.09	1.58	2.27	0.30	1.55	5/8	125	–

† Contact technical services for specific stranding listings.
Note: angled lugs can be readily available as: 15°, 30°, 45°, 60°, and 90°.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

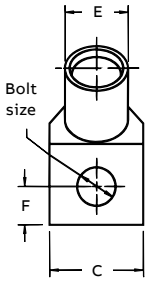
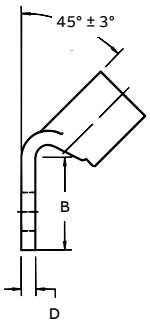
Copper compression lugs – One-hole

One-hole lugs – 45° Standard barrel 600 V to 35 kV



Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – 45° Standard barrel 600 V to 35 kV

Diagrams	Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): B	C	D	E	F	Die code	Die color
 	54104UF	#8	23 Navy #8 Weld 37/24 = 14.9 kcmil	#10	0.50	0.39	0.08	0.25	7/32	21	Red
	54130UF			1/4	0.61	0.45	0.07	0.25	1/4	21	
	54131UF			5/16	0.64	0.56	0.05	0.25	9/32	21	
	54132UF			3/8	0.64	0.56	0.05	0.25	9/32	21	
	54134UF	#6	30 Navy #6 Weld 61/24 = 24.6 kcmil 133/0.014	#10	0.53	0.44	0.07	0.31	7/32	24	Blue
	54105UF			1/4	0.53	0.44	0.07	0.31	7/32	24	
	54135UF			5/16	0.67	0.60	0.07	0.31	5/16	24	
	54136UF			3/8	0.67	0.60	0.07	0.31	5/16	24	
	54138UF	#4	#4 Weld 40–50 Navy 91/24 = 36.7 kcmil 133/0.0177 49/0.029 #5–91/24	#10	0.60	0.55	0.09	0.37	1/4	29	Gray
	54106UF			1/4	0.60	0.55	0.09	0.37	1/4	29	
	54139UF			5/16	0.66	0.61	0.07	0.37	5/16	29	
	54140UF			3/8	0.66	0.61	0.07	0.37	5/16	29	
	256-30695-264UF			1/2	1.40	1.00	0.06	0.37	1/2	29	
	54107UF	#2	60 Navy 125/24 = 50.4 kcmil #3 Weld	1/4	0.65	0.59	0.11	0.41	1/4	33	Brown
	54142UF			5/16	0.88	0.59	0.11	0.41	3/8	33	
	54143UF			3/8	0.80	0.59	0.11	0.41	3/8	33	
	54145UF			1/2	1.08	0.75	0.08	0.41	1/2	33	
	54108UF	#1	75 Navy, #2 Weld 150/24 = 60.5 kcmil 175/24 = 70.6 kcmil 133/0.0223	1/4	0.65	0.68	0.11	0.47	1/4	37	Green
	54147UF			5/16	0.93	0.68	0.11	0.47	3/8	37	
	54148UF			3/8	0.98	0.68	0.11	0.47	3/8	37	
	54150UF			1/2	1.25	0.76	0.11	0.47	1/2	37	
	54152UF	1/0	100 Navy #1 Weld 225/24 = 90.8 kcmil 133/0.0254	1/4	0.65	0.75	0.13	0.52	1/4	42	Pink
	54153UF			5/16	0.88	0.75	0.13	0.52	3/8	42	
	54109UF			3/8	0.93	0.75	0.13	0.52	3/8	42	
	54155UF			1/2	1.25	0.75	0.13	0.52	1/2	42	
	54157UF	2/0	125 Navy 1/0 Weld 275/24 = 111 kcmil 427/0.0155, 133/0.0282	1/4	0.65	0.83	0.13	0.57	1/4	45	Black
	54158UF			5/16	0.88	0.83	0.13	0.57	3/8	45	
	54110UF			3/8	0.93	0.83	0.13	0.57	3/8	45	
	54160UF			1/2	1.25	0.83	0.13	0.57	1/2	45	
	54162UF	3/0	150 Navy, 2/0 Weld 325/24 = 131 kcmil 133/0.0316, 259/0.0227 427/0.0177	1/4	0.65	0.92	0.13	0.63	1/4	50	Orange
	54163UF			5/16	0.88	0.92	0.13	0.63	3/8	50	
	54111UF			3/8	0.93	0.92	0.13	0.63	3/8	50	
	54165UF			1/2	1.25	0.92	0.13	0.63	1/2	50	
	54167UF	4/0	200 Navy 3/0 Weld 450/24 = 182 kcmil 703/0.0154	1/4	0.65	1.03	0.14	0.70	1/4	54	Purple
	54168UF			5/16	0.87	1.03	0.14	0.70	3/8	54	
	54112UF			3/8	0.93	1.03	0.14	0.70	3/8	54	
	54170UF			1/2	1.25	1.03	0.14	0.70	1/2	54	
	58161UF	–	4/0 Weld 550/24 = 222 kcmil 133/0.0399 259/0.0286 637/0.0183	1/4	0.78	1.25	0.15	0.79	3/8	62	Yellow
	58162UF			5/16	0.88	1.25	0.15	0.79	3/8	62	
	58163UF			3/8	0.93	1.25	0.15	0.79	3/8	62	
	58165UF			1/2	1.25	1.25	0.15	0.79	1/2	62	
	58166UF			5/8	1.58	1.25	0.15	0.79	5/8	62	

† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – One-hole

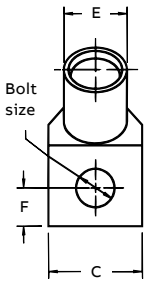
One-hole lugs – 45° Standard barrel 600 V to 35 kV (continued)

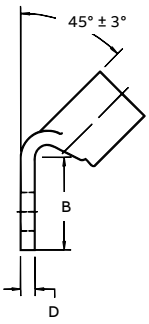


Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – 45° Standard barrel 600 V to 35 kV

Diagrams





Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): B	C	D	E	F	Die code	Die color
54172UF	250	250 Navy	1/4	0.65	1.13	0.14	0.77	1/4	62	Yellow
54173UF			5/16	0.88	1.13	0.14	0.77	3/8	62	
54174UF			3/8	0.93	1.13	0.14	0.77	3/8	62	
54113UF			1/2	1.25	1.13	0.14	0.77	1/2	62	
58168UF	–	250 Weld, 650/24 = 262 kcmil, 259/0.0311, 703/0.0189	1/2	1.25	1.25	0.15	0.85	1/2	66	White
54178UF	300	300 Navy	5/16	0.88	1.25	0.15	0.85	3/8	66	
54179UF			3/8	0.93	1.25	0.15	0.85	3/8	66	
54114UF			1/2	1.25	1.25	0.15	0.85	1/2	66	
54181UF			5/8	1.58	1.25	0.15	0.85	5/8	66	
58171UF	–	300 Weld, 259/0.034, 427/0.0265, 889/0.0183 775/24 = 313 kcmil	1/2	1.25	1.36	0.18	0.93	1/2	71	Red
54115UF06	350	350 Navy	3/8	1.25	1.36	0.18	0.93	1/2	71	
54115UF			1/2	1.25	1.36	0.18	0.93	1/2	71	
54183UF			5/8	1.58	1.36	0.18	0.93	5/8	71	
58174UF	–	350 Weld, 259/0.0368, 427/.0285, 703/0.0224, 889/0.0201	1/2	1.25	1.61	0.22	1.09	1/2	76	Blue
54116UF	400	400 Navy	1/2	1.25	1.41	0.17	0.96	1/2	76	
54185UF			5/8	1.58	1.41	0.17	0.96	5/8	76	
58177UF06		400 Weld 925/24 = 373 kcmil	3/8	1.31	1.61	0.22	1.04	5/8	80	–
58177UF			1/2	1.25	1.61	0.22	1.04	1/2	80	
54118UF	500	500 Navy	1/2	1.25	1.61	0.22	1.10	1/2	87	Brown
54187UF			5/8	1.58	1.61	0.22	1.10	5/8	87	
58180UF	–	1100/24 = 444 kcmil, 450, 1127 / 450, 4522	5/8	1.58	1.75	0.24	1.20	1/2	94	Green
54120UF	600	–	5/8	1.58	1.75	0.24	1.20	1/2	94	
54122UF	700	–	5/8	1.58	1.84	0.23	1.26	1/2	99	Pink
58182UF	–	1325/24 = 535 kcmil 427/0.0342	1/2	1.69	1.81	0.28	1.25	13/16	99	
58182UF			5/8	1.58	1.81	0.28	1.25	5/8	99	
54123UF	750	600 Flex 427 Str.	5/8	1.58	1.94	0.27	1.33	5/8	106	
58184UF	–	1600/24 = 646 kcmil	5/8	1.58	1.94	0.27	1.33	5/8	106	
54124UF	800	800 Navy	5/8	1.58	2.01	0.27	1.38	5/8	107	Orange
54126UF	900	1925/24 = 777 kcmil, 900 Navy	5/8	1.58	2.17	0.31	1.50	5/8	115	Yellow
54128UF	1000	1000 Navy	5/8	1.58	2.27	0.30	1.55	5/8	125	–

† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – One-hole

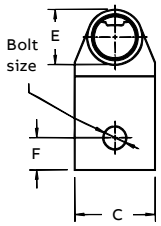
One-hole lugs – 90° Standard barrel 600 V to 35 kV

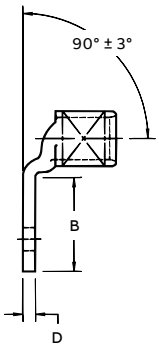


Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – 90° Standard barrel 600 V to 35 kV

Diagrams





Cat. No.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): B	C	D	E	F	Die code	Die color
54104UB	#8	23 Navy	#10	0.50	0.39	0.08	0.25	7/32	21	Red
54130UB		#8 Weld	1/4	0.61	0.45	0.07	0.25	1/4	21	
54131UB		37/24 = 14.9 kcmil	5/16	0.64	0.56	0.05	0.25	9/32	21	
54132UB			3/8	0.64	0.56	0.05	0.25	9/32	21	
54134UB	#6	30 Navy	#10	0.53	0.44	0.07	0.31	7/32	24	Blue
54105UB		#6 Weld	1/4	0.53	0.44	0.07	0.31	7/32	24	
54135UB		61/24 = 24.6 kcmil	5/16	0.67	0.60	0.07	0.31	5/16	24	
54136UB		133/0.014	3/8	0.67	0.60	0.07	0.31	5/16	24	
54138UB	#4	#4 Weld	#10	0.60	0.55	0.09	0.37	1/4	29	Gray
54106UB		40–50 Navy	1/4	0.60	0.55	0.09	0.37	1/4	29	
54139UB		91/24 = 36.7 kcmil	5/16	0.66	0.61	0.07	0.37	5/16	29	
54140UB		133/0.0177	3/8	0.66	0.61	0.07	0.37	5/16	29	
256-30695-264UB		49/0.029	1/2	1.40	1.00	0.06	0.37	1/2	29	
54107UB	#2	#5–91/24	1/4	0.65	0.59	0.11	0.41	1/4	33	Brown
54142UB		60 Navy	5/16	0.88	0.59	0.11	0.41	3/8	33	
54143UB		125/24 = 50.4 kcmil	3/8	0.80	0.59	0.11	0.41	3/8	33	
54145UB		#3 Weld	1/2	1.08	0.75	0.08	0.41	1/2	33	
54108UB	#1	75 Navy, #2 Weld	1/4	0.65	0.68	0.11	0.47	1/4	37	Green
54147UB		150/24 = 60.5 kcmil	5/16	0.93	0.68	0.11	0.47	3/8	37	
54148UB		175/24 = 70.6 kcmil	3/8	0.98	0.68	0.11	0.47	3/8	37	
54150UB		133/0.0223	1/2	1.25	0.76	0.11	0.47	1/2	37	
54152UB	1/0	100 Navy	1/4	0.65	0.75	0.13	0.52	1/4	42	Pink
54153UB		#1 Weld	5/16	0.88	0.75	0.13	0.52	3/8	42	
54109UB		225/24 = 90.8 kcmil	3/8	0.93	0.75	0.13	0.52	3/8	42	
54155UB		133/0.0254	1/2	1.25	0.75	0.13	0.52	1/2	42	
54157UB	2/0	125 Navy	1/4	0.65	0.83	0.13	0.57	1/4	45	Black
54158UB		1/0 Weld	5/16	0.88	0.83	0.13	0.57	3/8	45	
54110UB		275/24 = 111 kcmil	3/8	0.93	0.83	0.13	0.57	3/8	45	
54160UB		427/0.0155, 133/0.0282	1/2	1.25	0.83	0.13	0.57	1/2	45	
54162UB	3/0	150 Navy, 2/0 Weld	1/4	0.65	0.92	0.13	0.63	1/4	50	Orange
54163UB		325/24 = 131 kcmil	5/16	0.88	0.92	0.13	0.63	3/8	50	
54111UB		133/0.0316, 259/0.0227	3/8	0.93	0.92	0.13	0.63	3/8	50	
54165UB		427/0.0177	1/2	1.25	0.92	0.13	0.63	1/2	50	
54167UB	4/0	200 Navy	1/4	0.65	1.03	0.14	0.70	1/4	54	Purple
54168UB		3/0 Weld	5/16	0.87	1.03	0.14	0.70	3/8	54	
54112UB		450/24 = 182 kcmil	3/8	0.93	1.03	0.14	0.70	3/8	54	
54170UB		703/0.0154	1/2	1.25	1.03	0.14	0.70	1/2	54	
58161UB	–	4/0 Weld	1/4	0.78	1.25	0.15	0.79	3/8	62	Yellow
58162UB		550/24 = 222 kcmil	5/16	0.88	1.25	0.15	0.79	3/8	62	
58163UB		133/0.0399	3/8	0.93	1.25	0.15	0.79	3/8	62	
58165UB		259/0.0286	1/2	1.25	1.25	0.15	0.79	1/2	62	
58166UB		637/0.0183	5/8	1.58	1.25	0.15	0.79	5/8	62	

† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

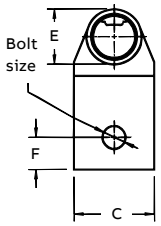
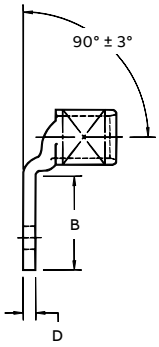
Copper compression lugs – One-hole

One-hole lugs – 90° Standard barrel 600 V to 35 kV (continued)



Material – High-conductivity wrought copper
Finish – Electro tin plate

One-hole lugs – 90° Standard barrel 600 V to 35 kV

Diagrams	Cat. no.	Wire size Code (AWG or kcmil)	Wire size Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in) B	C	D	E	F	Die code	Die color
	54172UB	250	250 Navy	1/4	0.65	1.13	0.14	0.77	1/4	62	Yellow
	54173UB			5/16	0.88	1.13	0.14	0.77	3/8	62	
	54174UB			3/8	0.93	1.13	0.14	0.77	3/8	62	
	54113UB			1/2	1.25	1.13	0.14	0.77	1/2	62	
	58168UB	–	250 Weld, 650/24 = 262 kcmil, 259/0.0311, 703/0.0189	1/2	1.25	1.25	0.15	0.85	1/2	66	White
	54178UB	300	300 Navy	5/16	0.88	1.25	0.15	0.85	3/8	66	
	54179UB			3/8	0.93	1.25	0.15	0.85	3/8	66	
	54114UB			**1/2**	1.25	1.25	0.15	0.85	**1/2**	66	
	54181UB			5/8	1.58	1.25	0.15	0.85	5/8	66	
	58171UB	–	300 Weld, 259/.034, 427/0.0265, 889/0.0183 775/24 = 313 kcmil	1/2	1.25	1.36	0.18	0.93	1/2	71	Red
	256-30695-112UB	350	350 Navy	3/8	1.25	1.36	0.18	0.93	1/2	71	
	54115UB			1/2	1.25	1.36	0.18	0.93	1/2	71	
	54183UB			5/8	1.58	1.36	0.18	0.93	5/8	71	
	58174UB	–	350 Weld, 259/0.0368, 427/0.0285, 703/0.0224, 889/0.0201	1/2	1.25	1.61	0.22	1.09	1/2	76	Blue
	54116UB	400	400 Navy	1/2	1.25	1.41	0.17	0.96	1/2	76	
	54185UB			5/8	1.58	1.41	0.17	0.96	5/8	76	
	256-30695-1403UB	–	400 Weld, 925/24 = 373 kcmil 259/0.0393, 427/0.0306	3/8	1.31	1.61	0.22	1.04	5/8	80	–
	58177UB			1/2	1.25	1.61	0.22	1.04	1/2	80	
	54118UB	500	500 Navy	1/2	1.25	1.61	0.22	1.10	1/2	87	Brown
	54187UB			5/8	1.58	1.61	0.22	1.10	5/8	87	
	58180UB	–	1100/24 = 444 kcmil, 450, 1127 450, 4522	5/8	1.58	1.75	0.24	1.20	5/8	94	Green
	54120UB	600	–	5/8	1.58	1.75	0.24	1.20	5/8	94	
	54122UB	700	–	5/8	1.58	1.84	0.23	1.26	5/8	99	Pink
	256-30695-840UB	–	1325/24 = 535 kcmil 500 Flex, 427/0.0342, 259, 1125, 5054	1/2	1.69	1.81	0.28	1.25	1 3/16	99	
	58182UB			5/8	1.58	1.81	0.28	1.25	5/8	99	
	54123UB	750	600 Flex 427	5/8	1.58	1.94	0.27	1.33	5/8	106	Black
	58184UB	–	1600/24 = 646 kcmil	5/8	1.58	1.94	0.27	1.33	5/8	106	
	54124UB	800	800 Navy	5/8	1.58	2.01	0.27	1.38	5/8	107	Orange
	54126UB	900	1925/24 = 777 kcmil, 900 Navy	5/8	1.58	2.17	0.31	1.50	5/8	115	Yellow
	54128UB	1000	1000 Navy	5/8	1.58	2.27	0.30	1.55	5/8	125	–

† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole

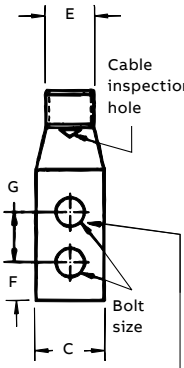
Two-hole lugs – Standard barrel 600 V to 35 kV

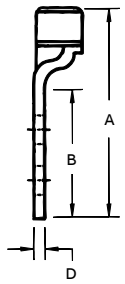


Material – High-conductivity wrought copper
Finish – Electro tin plate

Two-hole lugs – Standard barrel 600 V to 35 kV

Diagrams	Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	G	Die code	Die color
	54201	#14–10	–	1/4	1.86	1.19	0.50	0.05	0.20	1/4	5/8	ERG4002, ERG4005	"C" Nest
	256-30695-1302			3/8	2.48	1.81	0.56	0.04	0.22	3/8	1		
	54204	#8	23 Navy	#10	1.88	1.18	0.42	0.08	0.26	1/4	5/8	21	Red
	256-31426-33*	#7 LS	#8 Weld	#10	1.88	1.18	0.41	0.06	0.26	7/32	5/8-3/4	21	
	256-31426-33PH		37/24 = 14.9 kcmil	#10	1.88	1.18	0.41	0.06	0.26	7/32	5/8-3/4	21	
	542040410			1/4	2.01	1.31	0.42	0.08	0.26	1/4	5/8	21	
	542040416			1/4	2.38	1.68	0.42	0.08	0.26	1/4	1	21	
	256-30695-1094			1/4	2.50	1.81	0.56	0.05	0.26	1/4	3/4	21	
	256-30695-251			1/4	2.50	1.81	0.56	0.05	0.26	3/8	1	21	
	256-30695-1070	#6	30 Navy	#12	1.81	1.19	0.44	0.11	0.30	1/4	1/2-5/8	24	Blue
	256-30695-1153		#6 Weld	#10	1.98	1.28	0.44	0.08	0.30	1/4	1/2	24	
	256-30695-1183		61/24 = 24.6 kcmil	#10	1.98	1.19	0.44	0.08	0.30	7/32	5/8-3/4	24	
	54205		133/0.014	1/4	1.98	1.28	0.44	0.08	0.30	1/4	5/8	24	
	256-30695-1095		#5 Weld	1/4	2.13	1.31	0.43	0.08	0.30	1/4	3/4	24	
	256-30695-252			1/4	2.38	1.63	0.43	0.08	0.30	1/4	1	24	
	256-30695-372			1/4	2.13	1.43	0.43	0.08	0.30	1/4	3/4	24	
	256-30695-913			1/4	2.38	1.75	0.43	0.08	0.30	1/4	1	24	
	256-30695-253			3/8	2.58	1.81	0.55	0.08	0.30	3/8	1	24	
	54206	#4	40-50 Navy, #4 Weld	1/4	2.03	1.28	0.52	0.10	0.37	1/4	5/8	29	Gray
	256-30695-1184		#5, 91/24 = 36.7 kcmil	5/16	2.31	1.63	0.52	0.10	0.37	5/16	1	29	
	256-30695-255		133/0.0177, 49/0.029	3/8	2.56	1.81	0.59	0.09	0.37	3/8	1	29	
	54207	#3	#3 Flex	1/4	2.13	1.28	0.59	0.11	0.41	1/4	5/8	33	Brown
	256-30695-1355	#2	60 Navy	1/4	2.15	1.31	0.59	0.13	0.41	1/4	3/4	33	
	256-30695-1185		125/24 = 50.4 kcmil	1/4	2.38	1.53	0.59	0.11	0.41	1/4	1	33	
	256-30695-257			3/8	2.67	1.81	0.60	0.1	0.41	3/8	1	33	
	256-30695-1049			1/2	3.75	2.88	0.75	0.09	0.41	5/16	1 3/4	33	
	54208	#1	75 Navy, #2 Weld	1/4	2.13	1.28	0.68	0.11	0.47	1/4	5/8	37	Green
	256-30695-1233		150/24 = 60.5 kcmil	5/16	2.69	1.62	0.69	0.13	0.47	1 1/32	1	37	
	256-30695-1236		175/24 = 70.6 kcmil, 133/0.0223	3/8	2.75	1.81	0.68	0.11	0.47	3/8	1	37	
	256-30695-329	1/0	100 Navy	1/4	2.75	1.81	0.75	0.14	0.52	3/8	3/4	42	Pink
	54255		#1 Weld	5/16	2.56	1.56	0.75	0.14	0.52	3/8	7/8	42	
	256-30695-1234		225/24 = 90.8 kcmil	5/16	2.75	1.78	0.75	0.14	0.52	1/3	1	42	
	54209		133/0.0254	3/8	2.88	1.93	0.75	0.13	0.52	3/8	1	42	
	256-30695-1265			3/8	3.50	2.57	0.75	0.14	0.52	3/8	1 3/4	42	
	256-30695-886			1/2	3.78	2.83	0.75	0.13	0.52	1/2	1 3/4	42	
	256-30695-1175	2/0	125 Navy	1/4	2.45	1.44	0.83	0.14	0.57	1/4	3/4	45	Black
	54261		1/0 Weld	5/16	2.70	1.63	0.83	0.14	0.57	1/3	7/8	45	
	256-30695-832		275/24 = 111 kcmil	5/16	2.88	1.81	0.81	0.14	0.57	3/8	1	45	
	54210		133/0.0282	3/8	2.93	1.93	0.83	0.13	0.57	3/8	1	45	
	54260			1/2	3.83	2.81	0.83	0.14	0.57	3/8	1 3/4	45	
	54266	3/0	150 Navy, 2/0 Weld	5/16	2.88	1.75	0.94	0.14	0.63	1/3	1	50	Orange
	54211		325/24 = 131 kcmil	3/8	2.94	1.81	0.94	0.14	0.63	3/8	1	50	
	54265		133/0.0316, 259/0.0227, 427/0.0177	1/2	3.94	2.81	0.94	0.14	0.63	1/2	1 3/4	50	





† Contact technical services for specific stranding listings; * Blind end. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole

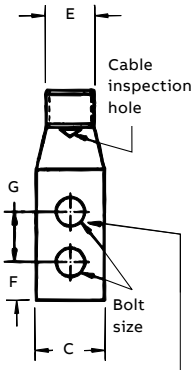
Two-hole lugs – Standard barrel 600 V to 35 kV (continued)

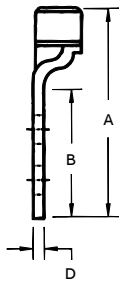


Material – High-conductivity wrought copper
Finish – Electro tin plate

Two-hole lugs – Standard barrel 600 V to 35 kV

Diagrams





Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	G	Die code	Die color
54212	4/0	200 Navy	3/8	3.18	1.93	1.03	0.14	0.70	3/8	1	54	Purple
54270		3/0 Weld	1/2	4.25	3.00	1.03	0.14	0.70	1/2	1 3/4	54	
256-30695-1247		450/24 = 182 kcmil	1/4	3.06	1.44	1.03	0.16	0.70	3/8	5/8	54	
256-30695-331		703/0.0154	1/4	3.06	1.81	1.03	0.14	0.70	3/8	3/4	54	
256-30695-1261			5/16	3.18	1.93	1.03	0.14	0.70	3/8	1	54	
54213	250	250 Navy	3/8	3.28	1.93	1.13	0.14	0.77	3/8	1	62	Yellow
54275			1/2	4.19	2.81	1.13	0.18	0.77	1/2	1 3/4	62	
256-30695-345	–	4/0 Weld	3/8	3.25	1.69	1.25	0.15	0.79	3/8	7/8	62	
256-30695-835		550/24 = 222 kcmil	3/8	4.25	2.80	1.25	0.15	0.79	3/8	1	62	
256-30695-452		133/0.0399	3/8	3.13	1.88	1.25	0.16	0.79	3/8	7/8	62	
58265		259/0.0286, 637/0.018	1/2	3.94	2.81	.94	0.14	0.79	1/2	1 3/4	62	
54214	300	300 Navy	3/8	3.45	1.93	1.25	0.15	0.85	3/8	1	66	White
54280		262, 650/24, 250 Weld	1/2	4.45	3.00	1.25	0.15	0.85	1/2	1 3/4	66	
256-30695-332	350	350 Navy	1/4	3.40	1.81	1.36	0.18	0.93	3/8	3/4	71	Red
256-30695-1240			5/16	4.18	2.63	1.36	0.18	0.93	3/8	1 3/4	71	
54215			3/8	3.51	1.93	1.36	0.18	0.93	3/8	1	71	
54282			1/2	4.60	3.00	1.36	0.18	0.93	1/2	1 3/4	71	
54216	400	400 Navy	3/8	3.93	1.93	1.41	0.17	0.96	3/8	1	76	Blue
54283		313, 775/24, 300 Weld	3/8	3.88	1.93	1.41	0.17	0.96	3/8	1 1/16	76	
256-30695-439	–	400 Weld	3/8	4.35	2.25	1.61	0.22	1.04	5/8	1	80	–
58277		925/24 = 373 kcmil	1/2	5.06	3.00	1.61	0.22	1.04	1/2	1 3/4	80	
256-30695-839		259/0.0393, 427/0.0306	3/8	4.09	2.06	1.61	0.22	1.04	1/2	1	80	
54218	500	500 Navy	3/8	3.96	1.93	1.61	0.22	1.10	3/8	1	87	Brown
54286			1/2	5.07	3.00	1.61	0.22	1.10	1/2	1 3/4	87	
256-30695-188			1/2	4.06	2.31	1.63	0.22	1.10	1/2	1 1/4	87	
54220	600	450 Flex I, K	3/8	4.13	1.93	1.75	0.24	1.20	3/8	1	94	Green
54289		1100/24 = 444 kcmil	1/2	5.23	3.00	1.75	0.24	1.20	1/2	1 3/4	94	
256-30695-1406	700	–	3/8	4.05	2.11	1.78	0.24	1.25	1/2	1	99	Pink
256-30695-842			3/8	4.30	2.06	1.80	0.28	1.25	1/2	1	99	
256-30695-898			3/8	4.30	2.06	1.80	0.28	1.25	1/2	1	99	
54291			1/2	5.18	3.00	1.84	0.23	1.25	1/2	1 3/4	99	
58281	–	500 Flex, 535, 1325/24	1/2	5.23	3.00	1.80	0.28	1.25	1/2	1 3/4	99	
256-30695-237	750	600, 427 Str.	3/8	5.10	2.80	1.94	0.27	1.33	3/8	1	106	Black
54223			1/2	5.32	3.00	1.94	0.27	1.33	1/2	1 3/4	106	
256-30695-1376	800	800 Navy	3/8	4.78	2.28	2.01	0.27	1.38	7/16	1 1/8	107	Orange
54224			1/2	5.50	3.00	2.01	0.27	1.38	1/2	1 3/4	107	
256-30695-694	900	1925/24 = 777 kcmil	3/8	4.65	2.06	2.18	0.31	1.50	1/2	1	115	Yellow
54226			1/2	5.59	3.00	2.18	0.31	1.50	1/2	1 3/4	115	
256-30695-846			3/8	4.60	2.06	2.12	0.31	1.50	1/2	1	115	
256-30695-844			5/8	5.00	2.63	2.18	0.31	1.50	9/16	1 1/2	115	
54228	1000	1000 Navy	1/2	5.45	3.00	2.27	0.30	1.55	1/2	1 3/4	125	–

† Contact technical services for specific stranding listings.

Tooling – see pages 91-115. Die selector chart – see pages 116-121.

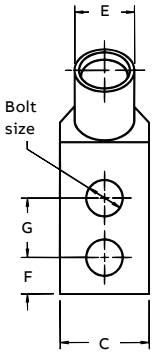
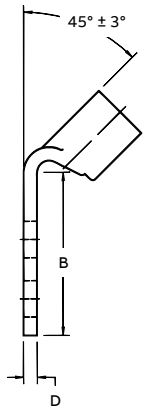
Copper compression lugs – Two-hole

Two-hole lugs – 45° Standard barrel 600 V to 35 kV



Two-hole lugs – 45° Standard barrel 600 V to 35 kV

Material – High-conductivity wrought copper
Finish – Electro tin plate

		Wire size										
					Dimensions (in)							
	Cat. no.	Code (AWG or kcmil)	Flex class G, H, i, k, m†	Bolt size (in.)	B	C	D	E	F	G	Die code	Die color
Diagrams	56-31426-9	#14–10	–	#10	1.22	0.37	0.05	2.00	1/4	5/8	–	–
	54204UF	#8 #7 LS	23 Navy #8 Weld 37/24 = 14.9 kcmil	#10	1.18	0.42	0.08	0.26	1/4	5/8	21	Red
	256-30695-1183UF	#6	30 Navy, #6 Weld 61/24 = 24.6 kcmil 133/0.014, #5 Weld	#10	1.19	0.44	0.08	0.30	7/32	5/8–3/4	24	Blue
	54205UF			1/4	1.28	0.44	0.08	0.30	1/4	5/8	24	
	54205UF0416			1/4	1.56	0.43	0.08	0.30	1/4	1	24	
	54206UF	#4	40-50 Navy, #4 Weld #5, 91/24 = 36.7 kcmil 133/0.0177, 49/.029	1/4	1.28	0.52	0.10	0.37	1/4	5/8	29	Gray
	54207UF	#3	60 Navy, #3 Flex 125/24 = 50.4 kcmil	1/4	1.28	0.59	0.11	0.41	1/4	5/8	33	Brown
	256-30695-257UF	#2		3/8	1.81	0.60	0.11	0.41	3/8	1	33	
	54208UF	#1	75 Navy, #2 Weld 150/24 = 60.5 kcmil 175/24 = 70.6 kcmil, 133/0.0223	1/4	1.28	0.68	0.11	0.47	1/4	5/8	37	Green
	54209UF	1/0	100 Navy #1 Weld 225/24 = 90.8 kcmil 133/0.0254	3/8	1.93	0.75	0.13	0.52	3/8	1	42	Pink
	54209UF0412			1/4	1.55	0.75	0.13	0.52	1/4	3/4	42	
	54261UF	2/0	125 Navy, 1/0 Weld 275/24 = 111 kcmil 133/0.0282	5/16	1.63	0.83	0.14	0.57	1/3	7/8	45	Black
	54210UF			3/8	1.93	0.83	0.13	0.57	3/8	1	45	
	54260UF			1/2	2.81	0.83	0.14	0.57	3/8	1 3/4	45	
	54266UF	3/0	150 Navy, 2/0 Weld 325/24 = 131 kcmil 133/0.0316, 259/0.0227, 427/0.0177	5/16	1.75	0.94	0.14	0.63	1/2	1	50	Orange
	54211UF			3/8	1.81	0.94	0.14	0.63	3/8	1	50	
	54265UF			1/2	2.81	0.94	0.14	0.63	1/2	1 3/4	50	
	54212UF	4/0	200 Navy 3/0 Weld 450/24 = 182 kcmil 703/0.0154	3/8	1.93	1.03	0.14	0.70	3/8	1	54	Purple
	54270UF			1/2	3.00	1.03	0.14	0.70	1/2	1 3/4	54	

† Contact technical services for specific stranding listings.

Tooling – see pages 91-115. Die selector chart – see pages 116-121.

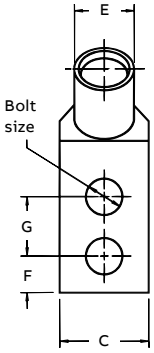
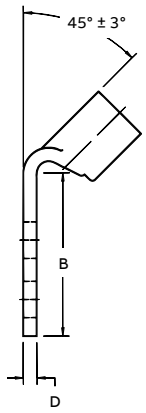
Copper compression lugs – Two-hole

Two-hole lugs – 45° Standard barrel 600 V to 35 kV (continued)



Material – High-conductivity wrought copper
Finish – Electro tin plate

Two-hole lugs – 45° Standard barrel 600 V to 35 kV

Diagrams	Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): B	C	D	E	F	G	Die code	Die color
	54213UF	250	250 Navy	3/8	1.93	1.13	0.14	0.77	3/8	1	62	Yellow
	54275UF			1/2	2.81	1.13	0.18	0.77	1/2	1 3/4	62	
	58265UF		550/24 = 222 kcmil 133/0.0399, 259/0.0286 637/0.018	1/2	2.81	0.94	0.14	0.79	1/2	1 3/4	62	
	54214UF	300	262, 350/24, 250 Weld 300 Navy	3/8	1.93	1.25	0.15	0.85	3/8	1	66	White
	54280UF			1/2	3.00	1.25	0.15	0.85	1/2	1 3/4	66	
	54215UF	350	350 Navy	3/8	1.93	1.36	0.18	0.93	3/8	1	71	Red
	54282UF			1/2	3.00	1.36	0.18	0.93	1/2	1 3/4	71	
	54216UF	400	400 Navy, 313 775/24, 300 Weld	3/8	1.93	1.41	0.17	0.96	3/8	1	76	Blue
	54283UF			3/8	1.93	1.41	0.17	0.96	3/8	1 1/16	76	
	58277UF	–	400 Weld 925/24 = 373 kcmil 259/0.0393, 427/0.0306	1/2	3.00	1.61	0.22	1.04	1/2	1 3/4	80	–
	54218UF	500	500 Navy	3/8	1.93	1.61	0.22	1.10	3/8	1	87	Brown
	54286UF			1/2	3.00	1.61	0.22	1.10	1/2	1 3/4	87	
	54220UF	600	450 Flex I, K 1100/24 = 444 kcmil	3/8	1.93	1.75	0.24	1.20	3/8	1	94	Green
	54289UF			1/2	3.00	1.75	0.24	1.20	1/2	1 3/4	94	
	54291UF	700	–	1/2	3.00	1.84	0.23	1.25	1/2	1 3/4	99	Pink
	58281UF	–	500 Flex	1/2	3.00	1.8	0.28	1.25	1/2	1 3/4	99	
	54223UF0616	750	1325/24 535 600, 427 Str.	3/8	2.80	1.94	0.27	1.33	3/8	1	106	Black
	54223UF			1/2	3.00	1.94	0.27	1.33	1/2	1 3/4	106	
	54224UF	800	800 Navy	1/2	3.00	2.01	0.27	1.38	1/2	1 3/4	106	
	54226UF	900	1925/24 = 777 kcmil	1/2	3.00	2.18	0.31	1.50	1/2	1 3/4	115	Yellow
	54228UF	1000	1000 Navy	1/2	3.00	2.27	0.30	1.55	1/2	1 3/4	125	–

† Contact technical services for specific stranding listings.
Note: angled lugs can be readily available as: 15°, 30°, 45°, 60°, and 90°.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

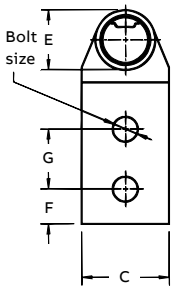
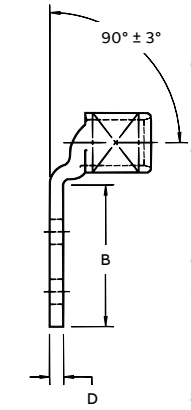
Copper compression lugs – Two-hole

Two-hole lugs – 90° Standard barrel 600 V to 35 kV



Material – High-conductivity wrought copper
Finish – Electro tin plate

Two-hole lugs – 90° Standard barrel 600 V to 35 kV

Diagrams	Cat. no.	Wire size Code (AWG or kcmil)	Wire size Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in) B	C	D	E	F	G	Die code	Die color
	CA256-31426-141	#14-10	–	#10	1.25	0.37	0.07	0.20	7/32	5/8	ERG4002, ERG4005	"C" Nest
	256-31426-6SPH			#10	1.30	0.37	0.07	0.20	7/32	5/8 – 3/4		
	256-31426-6			#10	1.30	0.37	0.07	0.20	7/32	5/8		
	256-31426-6S			#10	1.30	0.37	0.07	0.20	7/32	5/8 – 3/4		
	256-30695-1409	#8 #7 LS	23 Navy, #8 Weld 37/24 = 14.9 kcmil	#10	1.19	0.41	0.06	0.26	7/32	5/8 – 3/4	21	Red
	54204UB			#10	1.25	0.42	0.08	0.26	1/4	5/8	21	
	256-31426-33UB*			#10	1.19	0.41	0.06	0.26	7/32	5/8 – 3/4	21	
	256-31426-33UBPH			#10	1.19	0.41	0.06	0.26	7/32	5/8 – 3/4	21	
	256-30695-1411	#6	30 Navy #6 Weld 133/0.014 #5 Weld	#10	1.19	0.44	0.08	0.30	7/32	5/8 – 3/4	24	Blue
	256-30695-1183B			#10	1.19	0.44	0.08	0.30	7/32	5/8 – 3/4	24	
	256-30695-1356			#10	1.19	0.43	0.08	0.30	7/32	5/8	24	
	54205UB			1/4	1.28	0.44	0.08	0.30	1/4	5/8	24	
	256-30695-252UB			1/4	1.56	0.43	0.08	0.30	1/4	1	24	
	54206UB	#4	40-50 Navy #4 Weld #5 91/24 = 36.7 kcmil 133/0.0177, 49/0.029	1/4	1.28	0.52	0.10	0.37	1/4	5/8	29	Gray
	54207UB	#3 #2	60 Navy #3 Weld 125/24 = 50.4 kcmil	1/4	1.28	0.59	0.11	0.41	1/4	5/8	33	Brown
	54208UB	#1	75 Navy #2 Weld 150/24 = 60.5 kcmil 175/24 = 70.6 kcmil, 133/0.0223	1/4	1.28	0.68	0.11	0.47	1/4	5/8	37	Green
	54209UB	1/0	100 Navy, #1 Weld 225/24 = 90.8 kcmil, 133/0.0254 225/24 = 90.8 kcmil, 133/0.0254	3/8	1.93	0.75	0.13	0.52	3/8	1	42	Pink
	54209UB0412			1/4	1.55	0.75	0.13	0.52	1/4	3/4	42	
	54261UB	2/0	125 Navy, 1/0 Weld 275/24 = 111 kcmil 133/0.0282	5/16	1.63	0.83	0.14	0.57	1 1/32	7/8	45	Black
	54210UB			3/8	1.93	0.83	0.13	0.57	3/8	1	45	
	54260UB			1/2	2.81	0.83	0.14	0.57	3/8	1 3/4	45	
	54266UB	3/0	150 Navy, 2/0 Weld 325/24 = 131 kcmil 133/0.0316, 259/0.0227, 427/0.0177	5/16	1.75	0.94	0.14	0.63	1 1/32	1	50	Orange
	54211UB			3/8	1.81	0.94	0.14	0.63	3/8	1	50	
	54265UB			1/2	2.81	0.94	0.14	0.63	3/8	1 3/4	50	
	54212UB	4/0	200 Navy, 3/0 Weld 450/24 = 182 kcmil, 703/0.0154	3/8	1.93	1.03	0.14	0.70	3/8	1	54	Purple
	54270UB			1/2	3.00	1.03	0.14	0.70	1/2	1 3/4	54	
	54213UB	250	250 Navy	3/8	1.93	1.13	0.14	0.77	3/8	1	62	Yellow
	54275UB			1/2	2.81	1.13	0.18	0.77	1/2	1 3/4	62	
	256-30695-399UB	–	4/0 Weld, 550/24 = 222 kcmil 133/0.0399, 259/0.0286, 637/0.018	3/8	2.80	1.25	0.15	0.79	3/8	1	62	
	58265UB			1/2	2.81	0.94	0.14	0.79	1/2	1 3/4	62	

†Contact technical services for specific stranding listings; * Blind end.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole

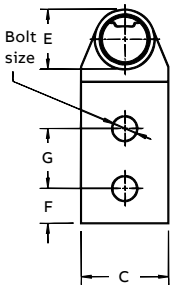
Two-hole lugs – 90° Standard barrel 600 V to 35 kV (continued)

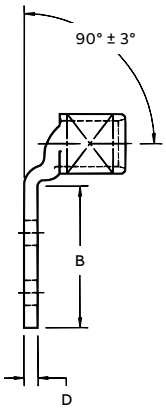


Material – High-conductivity wrought copper
Finish – Electro tin plate

Two-hole lugs – 90° Standard barrel 600 V to 35 kV

		Wire size			Dimensions (in)							
	Cat. no.	Code (AWG or kcmil)	Flex class G, H, I, K, M†	Bolt size (in.)	B	C	D	E	F	G	Die code	Die color
Diagrams	54214UB	300	262, 650/24, 250 Weld	3/8	1.93	1.25	0.15	0.85	3/8	1	66	**White**
	54280UB		300 Navy	1/2	3.00	1.25	0.15	0.85	1/2	1 3/4	66	
	54215UB	350	350 Navy	3/8	1.93	1.36	0.18	0.93	3/8	1	71	**Red**
	54282UB			1/2	3.00	1.36	0.18	0.93	1/2	1 3/4	71	
	54216UB	400	400 Navy	3/8	1.93	1.41	0.17	0.96	3/8	1	76	**Blue**
	54283UB		313, 775/24, 300 Weld	3/8	1.93	1.41	0.17	0.96	3/8	1 1/16	76	
	58277UB	–	400 Weld, 925/24 = 373 kcmil 259/0.0393, 427/0.0306	1/2	3.00	1.61	0.22	1.04	1/2	1 3/4	80	–
	54218UB	500	500 Navy	3/8	1.93	1.61	0.22	1.10	3/8	1	87	**Brown**
	54286UB			1/2	3.00	1.61	0.22	1.10	1/2	1 3/4	87	
	54220UB	600	1100/24 = 444 kcmil	3/8	1.93	1.75	0.24	1.20	3/8	1	94	**Green**
	54289UB		450 Flex I, K	1/2	3.00	1.75	0.24	1.20	1/2	1 3/4	94	
	54291UB	700	–	1/2	3.00	1.84	0.23	1.25	1/2	1 3/4	99	**Pink**
	58281UB	–	500 Flex, 1325/24 = 535 kcmil	1/2	3.00	1.80	0.28	1.25	1/2	1 3/4	99	
	54223UB	750	600, 427 Str.	1/2	3.00	1.94	0.27	1.33	1/2	1 3/4	106	**Black**
	54224UB	800	800 Navy	1/2	3.00	2.01	0.27	1.38	1/2	1 3/4	106	
	54226UB	900	1925/24 = 777 kcmil	1/2	3.00	2.18	0.31	1.50	1/2	1 3/4	115	**Yellow**
	54228UB	1000	1000 Navy	1/2	3.00	2.27	0.30	1.55	1/2	1 3/4	125	–





† Contact technical services for specific stranding listings.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Narrow-tongue

Narrow-tongue lugs – One- and two-hole, standard barrel, 600 V applications

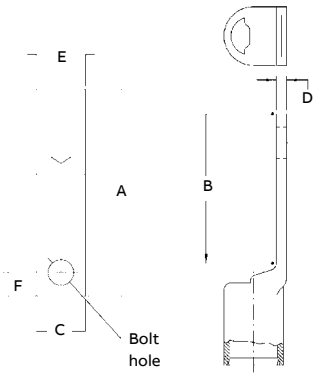


Ideal for confined-space terminations
Material – High-conductivity wrought copper
Finish – Electro tin plate

Narrow-tongue lugs – One-hole standard barrel, 600 V applications

Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	H	Die code	Die color
54138NT	#4	91/24	#10	1.31	0.56	0.37	0.10	0.37	0.25	–	29	Gray
54107NT	#2–3	125/24	¼	1.50	0.65	0.41	0.07	0.41	0.25	–	33	Brown
54108NT	#1	150,175/24	¼	1.50	0.65	0.47	0.11	0.47	0.25	–	37	Green
54152NT	1/0	225/24	¼	1.60	0.65	0.52	0.13	0.52	0.25	–	42	Pink
54157NT	2/0	275/24	¼	1.60	0.65	0.57	0.13	0.57	0.25	–	45	Black
54162NT	3/0	325/24	¼	1.68	0.65	0.63	0.13	0.63	0.25	–	50	Orange
54167NT	4/0	450/24	¼	1.90	0.65	0.70	0.14	0.70	0.25	–	54	Purple
54172NT	250	–	¼	2.00	0.65	0.77	0.14	0.77	0.25	–	62	Yellow
54178NT04	300	–	¼	2.33	0.88	0.85	0.15	0.85	0.25	–	66	White
54115NT	350	–	½	2.75	1.25	0.93	0.18	0.93	0.50	–	71	Red
54115NT06	350	–	⅜	2.50	1.00	0.93	0.18	0.93	0.38	–	71	Red
54118NT	500	–	½	3.25	1.25	1.10	0.22	1.10	0.50	–	87	Brown
54123NT08	750	–	½	3.48	1.25	1.33	0.27	1.33	0.50	–	106	Black
54123NT	750	–	⅝	3.80	1.58	1.33	0.27	1.33	0.63	–	106	Black

Diagrams

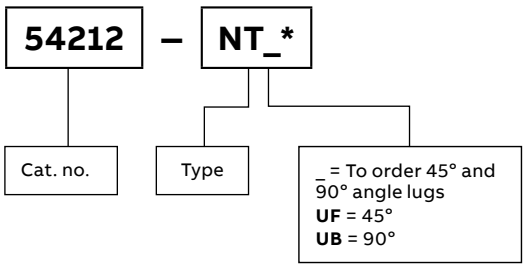


One-hole lug

One-hole and two-hole lug

† Contact technical services for specific stranding listings.

* Special lugs may have other catalog number constructions. Please contact technical services.

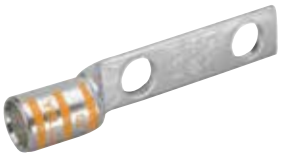


Ordering information
Other options include silver plating (add SP to catalog number), blind end (add BE to catalog number) and peep holes (add PH to catalog number).

Catalog no. example:
54108NTUB is a 90° angled one-hole narrow-tongue lug for #1 AWG.

Copper compression lugs – Narrow-tongue

Narrow-tongue lugs – One- and two-hole, standard barrel, 600 V applications (continued)

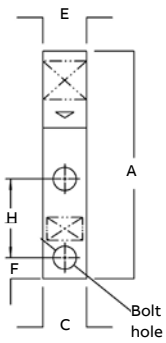


Ideal for confined-space terminations
Material – High-conductivity wrought copper
Finish – Electro tin plate

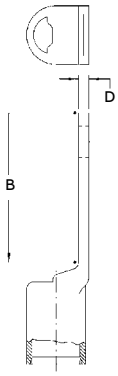
Narrow-tongue lugs – Two-hole, standard barrel, 600 V applications

Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	H	Die code	Die color
54206NT0310	#4	91/24	#10	1.88	1.13	0.37	0.10	0.37	0.25	0.63	29	Gray
54207NT	#2-3	125/24	¼	2.04	1.19	0.41	0.11	0.41	0.25	0.63	33	Brown
54207NT0412	#2-3	125/24	¼	2.16	1.31	0.41	0.11	0.41	0.25	0.75	33	
54207NT0416	#2-3	125/24	¼	2.41	1.56	0.41	0.11	0.41	0.25	1.00	33	
54208NT	#1	150,175/24	¼	2.04	1.19	0.47	0.11	0.47	0.25	0.63	37	Green
54208NT0516	#1	150,175/24	5⁄16	2.63	1.78	0.47	0.11	0.47	0.38	1.00	37	
54255NT	1/0	225/24	5⁄16	2.61	1.66	0.52	0.14	0.52	0.38	0.88	42	Pink
54261NT	2/0	275/24	5⁄16	2.66	1.66	0.57	0.14	0.57	0.38	0.88	45	Black
54210NT	2/0	275/24	⅜	2.82	1.82	0.57	0.14	0.57	0.38	1.00	45	
54266NT	3/0	325/24	5⁄16	2.88	1.78	0.63	0.13	0.63	0.38	1.00	50	Orange
54211NT	3/0	325/24	⅜	2.92	1.82	0.63	0.13	0.63	0.38	1.00	50	
54212NT	4/0	450/24	⅜	3.07	1.82	0.70	0.14	0.70	0.38	1.00	54	Purple
54213NT	250	–	⅜	3.17	1.82	0.77	0.14	0.77	0.38	1.00	62	Yellow
54275NT	250	–	⅜	4.16	2.81	0.77	0.14	0.77	0.50	1.75	62	
54282NT	350	–	½	4.36	2.81	0.93	0.18	0.93	0.50	1.75	71H	Red
54218NT	500	–	⅜	4.57	2.57	1.10	0.22	1.10	0.38	1.75	87	Brown
54286NT	500	–	½	4.81	2.81	1.10	0.22	1.10	0.50	1.75	87	
54878BENTPH	600	–	½	5.83	3.00	1.20	0.24	1.20	0.50	1.75	94	Green
54223NT0628	750	–	⅜	4.79	2.57	1.33	0.27	1.33	0.38	1.75	106H	Black
54223NT0616	750	–	⅜	5.00	2.02	1.66	0.27	1.33	0.38	1.00	106	
54223NT	750	–	½	5.04	2.81	1.33	0.27	1.33	0.50	1.75	106H	
58884BENTPH	–	1600/24	½	6.16	3.00	1.33	0.24	1.20	0.50	1.75	106H	
58825NT	900	1925/24 = 777 kcmil	⅜	5.00	2.13	1.66	0.31	1.50	0.50	1.00	115	Yellow
58825NT0828	900	1925/24 = 777 kcmil	½	5.75	2.88	1.66	0.31	1.50	0.50	1.75	115	

Diagrams



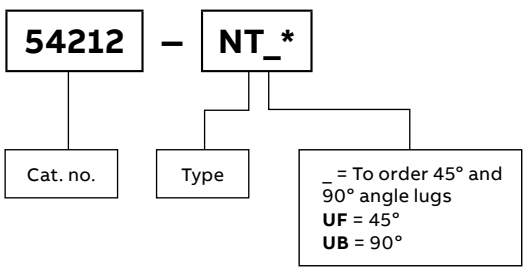
Two-hole lug



One-hole and two-hole lug

† Contact technical services for specific stranding listings.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

* Special lugs may have other catalog number constructions. Please contact technical services.



Ordering information
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.

Copper compression lugs – Insulated

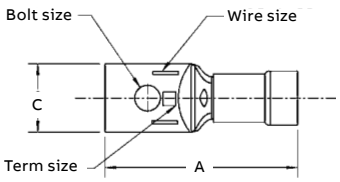
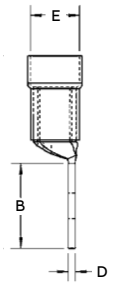
Insulated lugs



Reduce your installation time and labor costs
Now you can have all of the benefits of ABB's industry-leading Color-Keyed lugs – 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 among 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 Color-Keyed compression tools TBM6S, 25000, 13642M or 13400 with adapter

Insulated lugs

Diagrams	Cat. no.	Wire size (AWG or kcmil)	Bolt size (in.)	Dimensions (in) A	B	C	D	E	Hole spacing	Die for TBM6s or 25000 tool	Die for 13642M tool
	One-hole standard-barrel nylon-insulated lugs										
	54104I	#8	#10	1.49	0.50	0.39	0.08	0.35	–	11821-CK	21707M-CK
	54105I	#6	¼	1.58	0.53	0.44	0.07	0.45	–	11822-CK	21708M-CK
	54106I	#4	¼	1.76	0.60	0.55	0.09	0.53	–	11823-CK	21709M-CK
	54108I	#1	¼	2.06	0.65	0.68	0.11	0.60	–	11824-CK	21710M-CK
	54109I	1/0	⅜	2.36	0.93	0.75	0.13	0.64	–	11825-CK	21711M-CK
	54110I	2/0	⅜	2.43	0.93	0.83	0.13	0.69	–	11826-CK	21712M-CK
	54111I	3/0	⅜	2.54	0.93	0.92	0.13	0.77	–	11827-CK	21713M-CK
	54112I	4/0	⅜	2.75	0.93	1.03	0.14	0.80	–	11828-CK	21714M-CK
	54113I	250	½	3.19	1.25	1.13	0.14	0.88	–	11829-CK	21715M-CK
	Two-hole standard-barrel nylon-insulated lugs										
	54204I	#8	#10	2.21	1.18	0.42	0.08	0.35	0.625	11821-CK	21707M-CK
	54205I	#6	¼	2.32	1.28	0.44	0.08	0.45	0.625	11822-CK	21708M-CK
	54206I	#4	¼	2.40	1.28	0.52	0.10	0.53	0.625	11823-CK	21709M-CK
	54208I	#1	¼	2.69	1.28	0.68	0.11	0.60	0.625	11824-CK	21710M-CK
	54209I	1/0	⅜	3.36	1.93	0.75	0.13	0.64	1.000	11825-CK	21711M-CK
	54210I	2/0	⅜	3.43	1.93	0.83	0.13	0.69	1.000	11826-CK	21712M-CK
	54211I	3/0	⅜	3.45	1.81	0.94	0.14	0.77	1.000	11827-CK	21713M-CK
	54212I	4/0	⅜	3.75	1.93	1.03	0.14	0.80	1.000	11828-CK	21714M-CK
	54213I	250	½	3.87	1.93	1.13	0.14	0.88	1.000	11829-CK	21715M-CK

Specifications

- Material – Lugs: seamless copper tubing with electro tin plate finish
- Material – Insulators: injection-molded nylon
- Temperature rating: 105 °C max.
- Voltage rating: 600 V max. (1,000 V max. in signs and fixtures)
- Listings: UL® listed, CSA certified

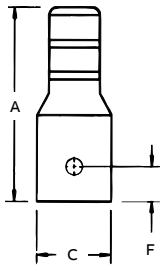
Copper compression lugs – One-hole long-barrel

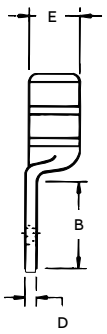
One-hole lugs – Long barrel 600 V to 35 kV



One-hole lugs – Long barrel 600 V to 35 kV

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plate





		Wire size										
		Code	Flex class	Bolt size	Dimensions (in)						Die	Die
	Cat. no.	(AWG or kcmil)	G, H, I, K, M†	(in.)	A	B	C	D	E	F	code	color
Diagrams	54901BE	#14–10	–	¼	1.23	0.56	0.50	0.05	0.20	¼	ERG4002, ERG4005	"C" nest
	54929BE*	#8	23 Navy, #8 Flex 37/24 = 14.9 kcmil	#10	1.65	0.65	0.42	0.08	0.26	¼	21	Red
	54930BE*			¼	1.65	0.65	0.42	0.08	0.26	¼	21	
	54904BE*	#6	#6 Flex, 30 Navy, #5 Weld	#10	1.65	0.65	0.44	0.08	0.30	¼	24	Blue
	54905BE*			¼	1.65	0.65	0.44	0.08	0.30	¼	24	
	54908BE*	#4	40–30 Navy, #4 Weld #5 91/24 = 36.7 kcmil	#10	1.70	0.65	0.52	0.10	0.37	¼	29	Gray
	54906BE*			¼	1.70	0.65	0.52	0.10	0.37	¼	29	
	54933BE*	#2–3	125/24 = 50.4 kcmil 60 Navy, #3 Weld	#10	1.88	0.65	0.59	0.11	0.41	¼	33	Brown
	54942BE*			5/16	2.03	0.88	0.59	0.11	0.41	⅜	33	
	54945BE	#1	75 Navy, #2 Weld 150/24 = 60.5 kcmil	#10	1.95	0.65	0.68	0.11	0.47	¼	37	Green
	54947BE			5/16	2.18	0.88	0.68	0.11	0.47	⅜	37	
	54946BE	1/0	100 Navy #1 Weld 225/24 = 90.8 kcmil	#10	1.95	0.65	0.75	0.13	0.52	¼	42	Pink
	54949BE			5/16	2.18	0.88	0.75	0.13	0.52	⅜	42	
	54909BE			⅜	2.23	0.93	0.75	0.13	0.52	⅜	42	
	54950BE			½	2.55	1.25	0.75	0.13	0.52	½	42	
	54910BE	2/0	125 Navy, 1/0 Weld 275/24 = 111 kcmil	⅜	2.28	0.93	0.83	0.13	0.57	⅜	45	Black
	54951BE			½	2.60	1.25	0.83	0.13	0.57	½	45	
	54965BE	3/0	325/24 = 131 kcmil, 150 Navy, 2/0 Weld	½	2.70	1.25	0.92	0.13	0.63	½	50	Orange
	256-30695-1252	4/0	200 Navy 450/24 = 182 kcmil 3/0 Weld	¼	2.35	0.65	1.03	0.14	0.70	¼	54	Purple
	256-30695-1253			⅜	2.95	1.25	1.03	0.14	0.70	⅜	54	
	54970BE			½	2.95	1.25	1.03	0.14	0.70	½	54	
	54913BE	250	550/24 = 222 kcmil, 250 Navy, 4/0 Weld	½	3.15	1.25	1.13	0.14	0.77	½	62	Yellow
	54914BE	300	300 Navy, 250 Weld, 262, 650/24	½	3.50	1.25	1.25	0.15	0.85	½	66	White
	54915BE	350	–	½	3.68	1.25	1.36	0.18	0.93	½	71	Red
	54916BE	400	400 Navy, 300 Flex 775/24 = 313 kcmil, 350, 254 Str.	½	3.75	1.25	1.41	0.17	0.96	½	76	Blue
	54917BE			⅝	4.03	1.58	1.41	0.17	0.96	⅝	76	
	54918BE	500	925/24 = 373 kcmil 400 Weld, 350, 3458 Str.	½	4.25	1.25	1.61	0.22	1.10	½	87	Brown
	54919BE			⅝	4.57	1.58	1.61	0.22	1.10	⅝	87	
	54921BE	600	450 I, K 1100/24 = 444 kcmil	½	4.10	1.25	1.75	0.24	1.20	½	94	Green
	54920BE			⅝	4.39	1.58	1.75	0.24	1.20	⅝	94	
	54979BE	–	1325/24 = 535 kcmil	½	4.40	1.25	1.80	0.24	1.25	½	99	Pink
	54922BE	750	1325/24 = 535 kcmil 500 Weld	½	4.40	1.25	1.94	0.27	1.33	½	106	Black
	54923BE			⅝	4.72	1.58	1.94	0.27	1.33	⅝	106	
	58984BE	–	1600/24 = 646 kcmil	⅝	4.73	1.58	1.94	0.27	1.33	⅝	106	
	58926BE	900	1925/24 = 777 kcmil	⅝	5.23	1.58	2.17	0.31	1.50	⅝	115	Yellow
	54928BE	1000	–	⅝	5.24	1.58	2.27	0.30	1.55	⅝	125	–
	256-30695-918			⅞	5.42	1.82	2.37	0.30	1.55	⅞	125	

† Contact technical services for specific stranding listings. * UL® listed for direct-burial applications. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – One-hole long-barrel

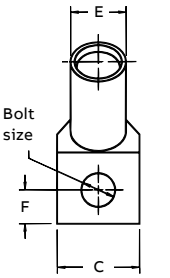
One-hole lugs – 45° Long barrel 600 V to 35 kV

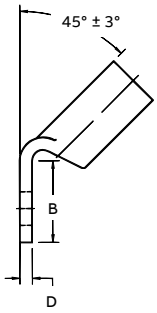


One-hole lugs – 45° Long barrel 600 V to 35 kV

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plate

Diagrams





Cat. No.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): B	C	D	E	F	Die code	Die color
54929BEUF	#8	23 Navy, #8 Flex 37/24 = 14.9 kcmil	#10	0.65	0.42	0.08	0.26	¼	21	Red
54930BEUF			¼	0.65	0.42	0.08	0.26	¼	21	
54904BEUF	#6	61/24 = 24.6 kcmil #6 Flex, 30 Navy	#10	0.65	0.44	0.08	0.30	¼	24	Blue
54905BEUF			¼	0.65	0.44	0.08	0.30	¼	24	
54908BEUF	#4	40–50 Navy, #4 Weld #5, 91/24 = 36.7 kcmil	#10	0.65	0.52	0.10	0.37	¼	29	Gray
54906BEUF			¼	0.65	0.52	0.10	0.37	¼	29	
54933BEUF	#2–3	125/24 = 50.4 kcmil 60 Navy, #3 Weld	#10	0.65	0.59	0.11	0.41	¼	33	Brown
54942BEUF			5/16	0.88	0.59	0.11	0.41	⅜	33	
54945BEUF	#1	75 Navy, #2 Weld 150/24 = 60.5 kcmil	#10	0.65	0.68	0.11	0.47	¼	37	Green
54947BEUF			5/16	0.88	0.68	0.11	0.47	⅜	37	
54946BEUF	1/0	100 Navy 225/24 = 90.8 kcmil #1 Weld	#10	0.65	0.75	0.13	0.52	¼	42	Pink
54949BEUF			5/16	0.88	0.75	0.13	0.52	⅜	42	
54909BEUF			⅜	0.93	0.75	0.13	0.52	⅜	42	
54950BEUF			½	1.25	0.75	0.13	0.52	½	42	
54910BEUF	2/0	125 Navy, 1/0 Weld 275/24 = 111 kcmil	⅜	0.93	0.83	0.13	0.57	⅜	45	Black
54951BEUF			½	1.25	0.83	0.13	0.57	½	45	
54965BEUF	3/0	325/24 = 131 kcmil, 150 Navy, 2/0 Weld	½	1.25	0.92	0.13	0.63	½	50	Orange
54970BEUF04	4/0	200 Navy 450/24 = 182 kcmil 3/0 Weld	¼	1.00	1.03	0.14	0.70	¼	54	Purple
54970BEUF06			⅜	1.13	1.03	0.14	0.70	⅜	54	
54970BEUF			½	1.25	1.03	0.14	0.70	½	54	
54913BEUF	250	550/24 = 222 kcmil, 250 Navy, 4/0 Weld	½	1.25	1.13	0.14	0.77	½	62	Yellow
54914BEUF	300	300 Navy, 250 Weld, 262, 650/24	½	1.25	1.25	0.15	0.85	½	66	White
54915BEUF	350	–	½	1.25	1.36	0.18	0.93	½	71	Red
54916BEUF	400	400 Navy, 300 Weld 775/24 = 313 kcmil, 350, 259 Str.	½	1.25	1.41	0.17	0.96	½	76	Blue
54917BEUF			⅝	1.58	1.41	0.17	0.96	⅝	76	
54918BEUF	500	925/24 = 373 kcmil 400 Weld, 350, 3458 Str.	½	1.25	1.61	0.22	1.10	½	87	Brown
54919BEUF			⅝	1.58	1.61	0.22	1.10	⅝	87	
54921BEUF	600	450 I, K 1100/24 = 444 kcmil	½	1.25	1.75	0.24	1.20	½	94	Green
54920BEUF			⅝	1.58	1.75	0.24	1.20	⅝	94	
54922BEUF	750	1325/24 = 535 kcmil 500 Weld	½	1.25	1.94	0.27	1.33	½	106	Black
54923BEUF			⅝	1.58	1.94	0.27	1.33	⅝	106	
58984BEUF	–	1600/24 = 646 kcmil	⅝	1.58	1.94	0.27	1.33	⅝	106	
58926BEUF	900	1925/24 = 777 kcmil	⅝	1.58	2.17	0.31	1.50	⅝	115	Yellow
54928BEUF	1000	–	⅝	1.58	2.27	0.30	1.55	⅝	125	–
54928BEUF12			⅞	1.83	2.37	0.30	1.55	⅞	125	

† Contact technical services for specific stranding listings.

Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – One-hole long-barrel

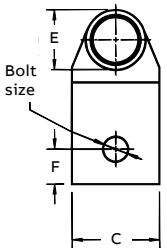
One-hole lugs – 90° Long barrel 600 V to 35 kV

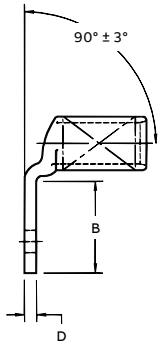


One-hole lugs – 90° Long barrel 600 V to 35 kV

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plate

Diagrams





Cat. No.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): B	C	D	E	F	Die code	Die color
54929BEUB	#8	23 Navy, #8 Flex 37/24 = 14.9 kcmil	#10	0.65	0.42	0.08	0.26	¼	21	Red
54930BEUB			¼	0.65	0.42	0.08	0.26	¼	21	
54904BEUB	#6	61/24 = 24.6 kcmil #6 Flex, 30 Navy	#10	0.65	0.44	0.08	0.30	¼	24	Blue
54905BEUB			¼	0.65	0.44	0.08	0.30	¼	24	
54908BEUB	#4	40–50 Navy, #4 Weld #5, 91/24 = 36.7 kcmil	#10	0.65	0.52	0.10	0.37	¼	29	Gray
54906BEUB			¼	0.65	0.52	0.10	0.37	¼	29	
54933BEUB	#2–3	125/24 = 50.4 kcmil 60 Navy, #3 Weld	#10	0.65	0.59	0.11	0.41	¼	33	Brown
54942BEUB			5/16	0.88	0.59	0.11	0.41	⅜	33	
54945BEUB	#1	75 Navy, #2 Weld 150/24 = 60.5 kcmil	#10	0.65	0.68	0.11	0.47	¼	37	Green
54947BEUB			5/16	0.88	0.68	0.11	0.47	⅜	37	
54946BEUB	1/0	100 Navy 225/24 = 90.8 kcmil #1 Weld	#10	0.65	0.75	0.13	0.52	¼	42	Pink
54949BEUB			5/16	0.88	0.75	0.13	0.52	⅜	42	
54909BEUB			⅜	0.93	0.75	0.13	0.52	⅜	42	
54950BEUB			½	1.25	0.75	0.13	0.52	½	42	
54910BEUB	2/0	125 Navy, 1/0 Weld 275/24 = 111 kcmil	⅜	0.93	0.83	0.13	0.57	⅜	45	Black
54951BEUB			½	1.25	0.83	0.13	0.57	½	45	
54965BEUB	3/0	325/24 = 131 kcmil, 150 Navy, 2/0 Weld	½	1.25	0.92	0.13	0.63	½	50	Orange
54970BEUB04	4/0	200 Navy 450/24 = 182 kcmil 3/0 Weld	¼	1.00	1.03	0.14	0.70	¼	54	Purple
54970BEUB06			⅜	1.13	1.03	0.14	0.70	⅜	54	
54970BEUB			½	1.25	1.03	0.14	0.70	½	54	
54913BEUB	250	550/24 = 222 kcmil, 250 Navy, 4/0 Weld	½	1.25	1.13	0.14	0.77	½	62	Yellow
54914BEUB	300	300 Navy, 250 Weld, 262, 650/24	½	1.25	1.25	0.15	0.85	½	66	White
54915BEUB	350	–	½	1.25	1.36	0.18	0.93	½	71	Red
54916BEUB	400	400 Navy, 300 Weld 775/24 = 313 kcmil, 350, 259 Str.	½	1.25	1.41	0.17	0.96	½	76	Blue
54917BEUB			⅝	1.58	1.41	0.17	0.96	⅝	76	
54918BEUB	500	925/24 = 373 kcmil 400 Weld, 350, 3458 Str.	½	1.25	1.61	0.22	1.10	½	87	Brown
54919BEUB			⅝	1.58	1.61	0.22	1.10	⅝	87	
54921BEUB	600	450 I, K 1100/24 = 444 kcmil	½	1.25	1.75	0.24	1.20	½	94	Green
54920BEUB			⅝	1.58	1.75	0.24	1.20	⅝	94	
54922BEUB	750	1325/24 = 535 kcmil 500 Weld	½	1.25	1.94	0.27	1.33	½	106	Black
54923BEUB			⅝	1.58	1.94	0.27	1.33	⅝	106	
58984BEUB	–	1600/24 = 646 kcmil	⅝	1.58	1.94	0.27	1.33	⅝	106	
58926BEUB	900	1925/24 = 777 kcmil	⅝	1.58	2.17	0.31	1.50	⅝	115	Yellow
54928BEUB	1000	–	⅝	1.58	2.27	0.30	1.55	⅝	125	–
54928BEUB12			⅞	1.83	2.37	0.30	1.55	⅞	125	

† Contact technical services for specific stranding listings.

Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole long barrel

Two-hole lugs – Long barrel 600 V to 35 kV



Two-hole lugs – Long barrel 600 V to 35 kV

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plate

Diagrams	Cat. no.	Wire size Code (AWG or kcmil)	Wire size Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in) A	B	C	D	E	F	H	Die code	Die color
	54801BE	#14–10	–	1/4	1.86	1.19	0.50	0.05	0.20	1/4	5/8	ERG4002, ERG4005	"C" nest
	256-31426-3			#10	2.00	1.25	0.37	0.07	0.20	1/4	5/8		
	256-31426-3SPH			#10	2.00	1.25	0.37	0.07	0.20	7/32	5/8–3/4		
	256-30695-1298			1/4	1.89	1.22	0.50	0.05	0.20	1/4	5/8		
	256-30695-1730			1/4	1.98	1.31	0.50	0.05	0.20	1/4	5/8–3/4		
	54850BE*	#8	37/24 = 14.9 kcmil	1/4	2.19	1.89	0.42	0.07	0.26	1/4	5/8	21	Red
	54851BE*		#8 Weld	1/4	2.31	1.29	0.47	0.06	0.26	1/4	3/4	21	
	256-30695-1157		23 Navy	3/8	3.00	2.10	0.56	0.06	0.26	3/8	1	21	
	54852BE*	#6	30 Navy	1/4	2.28	1.28	0.44	0.08	0.30	1/4	5/8	24	Blue
	256-30695-1014		61/24 = 24.6 kcmil	1/4	2.63	1.63	0.43	0.08	0.30	1/4	1	24	
	256-30695-1225*		#6 Weld	1/4	2.43	1.43	0.43	0.08	0.30	1/4	3/4	24	
	256-30695-1158*		#5 Weld	3/8	2.93	1.93	0.59	0.06	0.30	3/8	1	24	
	256-30695-868*			1/2	4.18	3.00	0.88	0.11	0.30	1/2	1 3/4	24	
	54854BE*	#4	40–50 Navy	1/4	2.31	1.19	0.52	0.10	0.37	1/4	5/8	29	Gray
	256-30695-1246*		#5, 91/24 = 36.7 kcmil	1/4	2.31	1.31	0.56	0.09	0.37	1/4	3/4	29	
	256-30695-1015		#4 Weld	1/4	2.88	1.88	0.58	0.09	0.37	3/8	1	29	
	256-30695-1337			5/16	2.75	1.75	0.56	0.10	0.37	11/32	1	29	
	256-30695-1159*			3/8	3.13	1.98	0.59	0.09	0.37	3/8	1	29	
	256-30695-733*			1/2	4.18	3.00	0.88	0.09	0.37	1/2	1 3/4	29	
	256-30695-1016	#2–3	60 Navy	1/4	3.06	1.88	0.67	0.09	0.41	3/8	1	33	Brown
	54855BE*		#3 Weld	1/4	2.43	1.28	0.59	0.11	0.41	1/4	5/8	33	
	256-30695-1300*		125/24 = 50.4 kcmil	1/4	2.63	1.35	0.68	0.11	0.41	1/4	3/4	33	
	54856BE*			5/16	2.78	1.63	0.59	0.11	0.41	3/8	3/4	33	
	54810BE			3/8	3.80	2.57	0.59	0.11	0.41	3/8	1 3/4	33	
	256-30695-1160*			3/8	3.08	1.94	0.59	0.11	0.41	3/8	1	33	
	256-30695-869			1/2	4.02	2.88	0.75	0.09	0.41	5/8	1 3/4	33	
	54811BE*			1/2	4.28	3.00	0.88	0.11	0.41	1/2	1 3/4	33	
	54809BE	#1	75 Navy	1/4	2.88	1.19	0.67	0.11	0.47	1/4	5/8	37	Green
	54812BE		150/24 = 60.5 kcmil	1/4	2.75	1.40	0.67	0.11	0.47	1/4	3/4	37	
	54858BE		175/24 = 70.6 kcmil,	5/16	2.97	1.63	0.67	0.11	0.47	3/8	7/8	37	
	256-30695-1161		#2 Weld	3/8	3.30	1.98	0.67	0.11	0.47	3/8	1	37	
	54857BE			1/2	4.43	3.00	0.88	0.11	0.47	1/2	1 3/4	37	
	256-30695-1018	1/0	100 Navy	1/4	3.63	1.88	0.75	0.13	0.52	3/8	1	42	Pink
	256-30695-1018P		#1 Weld	1/4	3.63	1.88	0.75	0.13	0.52	3/8	1	42	
	54859BE		225/24 = 90.8 kcmil	1/4	2.63	1.19	0.75	0.13	0.52	1/4	5/8	42	
	54813BE			1/4	2.71	1.38	0.75	0.13	0.52	1/4	3/4	42	
	54860BE			5/16	2.97	1.63	0.75	0.13	0.52	3/8	7/8	42	
	256-30695-1162P			3/8	3.25	1.98	0.75	0.13	0.52	3/8	1	42	
	256-30695-1162			3/8	3.23	1.93	0.75	0.13	0.52	3/8	1	42	
	256-30695-593*			1/2	4.33	3.00	0.75	0.13	0.52	5/8	1 3/4	42	

† Contact technical services for specific stranding listings. * UL® listed for direct-burial applications.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole long-barrel

Two-hole lugs – Long barrel 600 V to 35 kV (continued)



Two-hole lugs – Long barrel 600 V to 35 kV

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plate

Diagrams	Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in): A	B	C	D	E	F	H	Die code	Die color
	54814BE	2/0	125 Navy 275/24 = 111 kcmil 1/0 Weld	¼	2.62	1.25	0.83	0.13	0.57	¼	⅝	45	Black
	256-30695-1299			¼	2.69	1.31	0.81	0.13	0.57	¼	¾	45	
	256-30695-1116			⅜	3.19	1.81	0.83	0.13	0.57	⅜	1	45	
	256-30695-1116P			⅜	3.19	1.81	0.83	0.13	0.57	⅜	1	45	
	54862BE*			½	4.20	2.81	0.83	0.13	0.57	½	1¾	45	
	54815BE	3/0	2/0 Weld 325/24 = 131 kcmil 150 Navy	¼	2.89	1.45	0.92	0.13	0.63	¼	¾	50	Orange
	54816BE			⅜	3.25	1.63	0.92	0.13	0.63	⅜	1	50	
	54864BE			½	4.48	3.00	0.94	0.13	0.63	½	1¾	50	
	54817BE	4/0	200 Navy 450/24 = 182 kcmil 3/0 Weld	¼	3.15	1.38	1.03	0.14	0.70	¼	¾	54	Purple
	54818BE			⅜	4.38	2.63	1.03	0.14	0.70	⅜	1¾	54	
	256-30695-1117			⅜	3.35	1.81	1.03	0.14	0.70	⅜	1	54	
	256-30695-1117P			⅜	3.50	1.88	1.03	0.14	0.70	⅜	1	54	
	54866BE*			½	4.70	3.00	1.03	0.14	0.70	½	1¾	54	
	256-30695-1245	250	250 Navy 550/24 = 222 kcmil, 4/0 Weld	⅜	3.83	1.93	1.13	0.14	0.77	⅜	1	62	Yellow
	256-30695-1245P			⅜	3.83	1.93	1.13	0.14	0.77	⅜	1	62	
	54868BE*			½	4.92	3.00	1.13	0.14	0.77	½	1¾	62	
	54819BE	300	300 Navy 250 Weld, 262, 650/24	⅜	5.04	2.80	1.25	0.15	0.85	⅜	1	66	White
	54870BE			½	5.23	3.00	1.25	0.15	0.85	½	1¾	66	
	54820BE	350	–	¼	4.29	1.93	1.36	0.18	0.93	¼	¾	71	Red
	256-30695-1118			⅜	4.33	1.93	1.36	0.18	0.93	⅜	1	71	
	256-30695-1118P			⅜	4.33	1.93	1.36	0.18	0.93	⅜	1	71	
	54872BE			½	5.40	3.00	1.36	0.18	0.93	½	1¾	71	
	54822BE	400	400 Navy 775/24 = 313 kcmil 300 Flex, 350, 259 Str.	¼	4.38	1.93	1.41	0.17	0.96	¼	¾	76	Blue
	54821BE			⅜	4.43	1.93	1.41	0.17	0.96	⅜	1	76	
	54874BE			½	5.51	3.00	1.41	0.17	0.96	½	1¾	76	
	54823BE	500	400 Weld, G, H, I 925/24 = 373 kcmil 350, K	¼	4.93	1.94	1.61	0.22	1.10	¼	¾	87	Brown
	256-30695-1119			⅜	5.00	1.93	1.61	0.22	1.10	⅜	1	87	
	256-30695-1119P			⅜	5.00	1.93	1.61	0.22	1.10	⅜	1	87	
	54876BE			½	6.00	3.00	1.61	0.22	1.10	½	1¾	87	
	54824BE	600	450, I, K 1100/24 = 444 kcmil	⅜	5.70	2.80	1.75	0.24	1.20	⅜	1	94	Green
	54878BE			½	5.83	3.00	1.75	0.24	1.20	½	1¾	94	
	54879BE	700	1325/24 = 535 kcmil	½	5.83	3.00	1.80	0.24	1.25	½	1¾	99	Pink
	256-30695-1222	750	500, G, H, I, K 1325/24 = 535 kcmil	⅜	5.25	2.06	1.94	0.27	1.33	½	1	106	Black
	256-30695-1222P			⅜	5.25	2.06	1.94	0.27	1.33	½	1	106	
	54880BE			½	6.20	3.00	1.94	0.27	1.33	½	1¾	106	
	58884BE	–	1600/24 = 646 kcmil	½	6.16	3.00	1.94	0.27	1.33	½	1¾	106	
	58826BE	900	1925/24 = 777 kcmil	½	6.74	3.00	2.18	0.31	1.50	½	1¾	115	Yellow
	54826BE	1000	1000 Navy	⅜	6.49	2.80	2.27	0.30	1.55	⅜	1	125	–
	54882BE			½	6.66	3.00	2.27	0.30	1.55	⅜	1¾	125	
	54888BE	1250	929, 2300/24	½	7.88	3.00	2.42	0.35	1.67	⅝	1¾	140	

† Contact technical services for specific stranding listings. * UL® listed for direct-burial applications. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole long-barrel

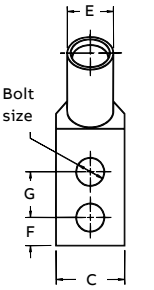
Two-hole lugs – 45° Long barrel 600 V to 35 kV

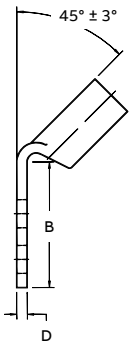


Two-hole lugs – 45° Long barrel 600 V to 35 kV

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plate

		Wire size			Dimensions (in)							
	Cat. no.	Code (AWG or kcmil)	Flex class G, H, I, K, M†	Bolt size (in.)	B	C	D	E	F	G	Die code	Die color
Diagrams	256-31426-3SPHUF	#14–10	–	#10	1.25	0.37	0.07	0.20	7/32	5/8 –3/4	ERG4002, ERG4005	"C" nest
	256-30695-1298UF			1/4	1.22	0.50	0.05	0.20	1/4	5/8		
	256-30695-1055UF			1/4	1.31	0.50	0.13	0.36	1/4	5/8 –3/4		
	54850BEUF	#8	37/24 = 14.9 kcmil	1/4	1.89	0.42	0.07	0.26	1/4	5/8	21	Red
	54851BEUF		#8 Weld	1/4	1.29	0.47	0.06	0.26	1/4	3/4	21	
	54851BEUF0612		23 Navy	3/8	1.42	0.47	0.06	0.26	3/8	3/4	21	
	54852BEUF	#6	30 Navy	1/4	1.28	0.44	0.08	0.30	1/4	5/8	24	Blue
	54852BEUF0416		61/24 = 24.6 kcmil	1/4	1.63	0.43	0.08	0.30	1/4	1	24	
	54852BEUF0412		#6 Weld	1/4	1.43	0.43	0.08	0.30	1/4	3/4	24	
	54852BEUF0616		#5 Weld	3/8	1.93	0.59	0.06	0.30	3/8	1	24	
	54852BEUF0828			1/2	3.00	0.88	0.11	0.30	1/2	1 3/4	24	
	54854BEUF	#4	40–50 Navy	1/4	1.19	0.52	0.10	0.37	1/4	5/8	29	Gray
	54854BEUF0412		#5, 91/24 = 36.7 kcmil	1/4	1.31	0.56	0.09	0.37	1/4	3/4	29	
	54854BEUF0416		#4 Weld	1/4	1.88	0.58	0.09	0.37	3/8	1	29	
	54854BEUF0516			5/16	1.75	0.56	0.10	0.37	11/32	1	29	
	54854BEUF0616			3/8	1.98	0.59	0.09	0.37	3/8	1	29	
	54854BEUF0828			1/2	3.00	0.88	0.09	0.37	1/2	1 3/4	29	
	54855BEUF0416	#2–3	60 Navy	1/4	1.88	0.67	0.09	0.41	3/8	1	33	Brown
	54855BEUF		#3 Weld	1/4	1.28	0.59	0.11	0.41	1/4	5/8	33	
	54855BEUF0412		125/24 = 50.4 kcmil	1/4	1.35	0.68	0.11	0.41	1/4	3/4	33	
	54856BEUF			5/16	1.63	0.59	0.11	0.41	3/8	3/4	33	
	54810BEUF			3/8	2.57	0.59	0.11	0.41	3/8	1 3/4	33	
	54810BEUF0616			3/8	1.94	0.59	0.11	0.41	3/8	1	33	
	54811BEUF			1/2	3.00	0.88	0.11	0.41	1/2	1 3/4	33	
	54809BEUF	#1	75 Navy	1/4	1.19	0.67	0.11	0.47	1/4	5/8	37	Green
	54812BEUF		150/24 = 60.5 kcmil	1/4	1.40	0.67	0.11	0.47	1/4	3/4	37	
	54858BEUF		175/24 = 70.6 kcmil,	5/16	1.63	0.67	0.11	0.47	3/8	7/8	37	
	54857BEUF0616		#2 Weld	3/8	1.98	0.67	0.11	0.47	3/8	1	37	
	54857BEUF			1/2	3.00	0.88	0.11	0.47	1/2	1 3/4	37	
	54859BEUF0416	1/0	100 Navy	1/4	1.88	0.75	0.13	0.52	3/8	1	42	Pink
	54859BEUF0416PH		#1 Weld	1/4	1.88	0.75	0.13	0.52	3/8	1	42	
	54859BEUF		225/24 = 90.8 kcmil	1/4	1.19	0.75	0.13	0.52	1/4	5/8	42	
	54813BEUF			1/4	1.38	0.75	0.13	0.52	1/4	3/4	42	
	54860BEUF			5/16	1.63	0.75	0.13	0.52	3/8	7/8	42	
	54860BEUF0616			3/8	1.98	0.75	0.13	0.52	3/8	1	42	
	54860BEUF0616PH			3/8	1.93	0.75	0.13	0.52	3/8	1	42	
	54860BEUF0828			1/2	3.00	0.75	0.13	0.52	5/8	1 3/4	42	
	54814BEUF	2/0	125 Navy	1/4	1.25	0.83	0.13	0.57	1/4	5/8	45	Black
	54814BEUF0412		275/24 = 111 kcmil	1/4	1.31	0.81	0.13	0.57	1/4	3/4	45	
	54862BEUF0616		1/0 Weld	3/8	1.81	0.83	0.13	0.57	3/8	1	45	
	54862BEUF0616PH			3/8	1.81	0.83	0.13	0.57	3/8	1	45	
	54862BEUF			1/2	2.81	0.83	0.13	0.57	1/2	1 3/4	45	





† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole long-barrel

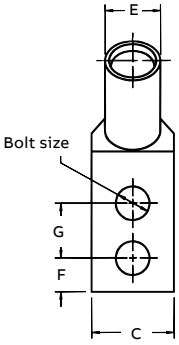
Two-hole lugs – 45˚ Long barrel 600 V to 35 kV (continued)

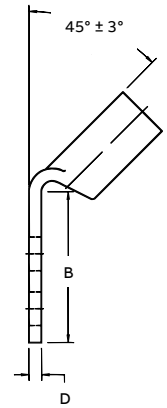


Two-hole lugs – 45˚ Long barrel 600 V to 35 kV

Peep holes available! Add suffix PH.
Material – High-conductivity wrought copper
Finish – Electro tin plate

		Wire size										
		Code	Flex class	Bolt size	Dimensions (in.)						Die	Die
	Cat. no.	(AWG or kcmil)	G, H, I, K, M†	(in.)	B	C	D	E	F	G	code	color
Diagrams	54815BEUF	3/0	2/0 Weld	¼	1.45	0.92	0.13	0.63	¼	¾	50	**Orange**
	54816BEUF		325/24 = 131 kcmil	⅜	1.63	0.92	0.13	0.63	⅜	1	50	
	54864BEUF		150 Navy	½	3.00	0.94	0.13	0.63	½	1¾	50	
	54817BEUF	4/0	200 Navy	¼	1.38	1.03	0.14	0.70	¼	¾	54	**Purple**
	54818BEUF		450/24 = 182 kcmil	⅜	2.63	1.03	0.14	0.70	⅜	1¾	54	
	54818BEUF0616		3/0 Weld	⅜	1.81	1.03	0.14	0.70	⅜	1	54	
	54818BEUF0616PH			⅜	1.88	1.03	0.14	0.70	⅜	1	54	
	54866BEUF			½	3.00	1.03	0.14	0.70	½	1¾	54	
	54868BEUF0616	250	250 Navy	⅜	1.93	1.13	0.14	0.77	⅜	1	62	**Yellow**
	54868BEUF0616PH		550/24 = 222 kcmil	⅜	1.93	1.13	0.14	0.77	⅜	1	62	
	54868BEUF		4/0 Weld	½	3.00	1.13	0.14	0.77	½	1¾	62	
	54819BEUF	300	300 Navy	⅜	2.80	1.25	0.15	0.85	⅜	1	66	**White**
	54870BEUF		250 Weld, 262, 650/24	½	3.00	1.25	0.15	0.85	½	1¾	66	
	54820BEUF	350	–	¼	1.93	1.36	0.18	0.93	¼	¾	71	**Red**
	54872BEUF0616			⅜	1.93	1.36	0.18	0.93	⅜	1	71	
	54872BEUF0616PH			⅜	1.93	1.36	0.18	0.93	⅜	1	71	
	54872BEUF			½	3.00	1.36	0.18	0.93	½	1¾	71	
	54822BEUF	400	400 Navy	¼	1.93	1.41	0.17	0.96	¼	¾	76	**Blue**
	54821BEUF		775/24 = 313 kcmil	⅜	1.93	1.41	0.17	0.96	⅜	1	76	
	54874BEUF			½	3.00	1.41	0.17	0.96	½	1¾	76	
	54823BEUF	500	400 Weld, G, H, I	¼	1.94	1.61	0.22	1.10	¼	¾	87	**Brown**
	54876BEUF0616		925/24 = 373 kcmil	⅜	1.93	1.61	0.22	1.10	⅜	1	87	
	54876BEUF0616PH		350, K	⅜	1.93	1.61	0.22	1.10	⅜	1	87	
	54876BEUF			½	3.00	1.61	0.22	1.10	½	1¾	87	
	54824BEUF	600	450 Weld, I, K	⅜	2.80	1.75	0.24	1.20	⅜	1	94	**Green**
	54878BEUF		1100/24 = 444 kcmil	½	3.00	1.75	0.24	1.20	½	1¾	94	
	54880BEUF0616	750	500, G, H, I, K	⅜	2.06	1.94	0.27	1.33	½	1	106	**Black**
	54880BEUF0616PH		1325/24 = 535 kcmil	⅜	2.06	1.94	0.27	1.33	½	1	106	
	54880BEUF			½	3.00	1.94	0.27	1.33	½	1¾	106	
	58884BEUF	–	1600/24 = 646 kcmil	½	3.00	1.94	0.27	1.33	½	1¾	106	
	58826BEUF	900	1925/24 = 777 kcmil	½	3.00	2.18	0.31	1.50	½	1¾	115	**Yellow**
	54826BEUF	1000	1000 Navy	⅜	2.80	2.27	0.30	1.55	⅜	1	125	–
	54882BEUF			½	3.00	2.27	0.30	1.55	½	1¾	125	





†Contact technical services for specific stranding listings.
Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole long barrel

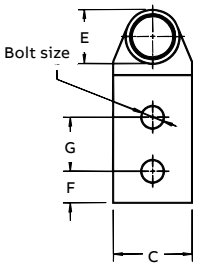
Two-hole lugs – 90˚ Long barrel 600 V to 35 kV

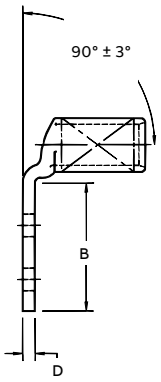


Two-hole lugs – 90˚ Long barrel 600 V to 35 kV

Peep holes available! Add suffix PH.
Material – High-conductivity wrought copper
Finish – Electro tin plate

Diagrams





Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in.): B	C	D	E	F	G	Die code	Die color
56-31426-3SPHUB	#14–10	–	#10	1.25	0.37	0.07	0.20	7/32	5/8–3/4	ERG4002, ERG4005	"C" nest
256-30695-1298UB			1/4	1.22	0.50	0.05	0.20	1/4	5/8		
256-30695-1055UB			1/4	1.31	0.50	0.13	0.36	1/4	5/8–3/4		
54850BEUB	#8	37/24 = 14.9 kcmil	1/4	1.89	0.42	0.07	0.26	1/4	13/16	21	Red
54851BEUB		#8 Weld	1/4	1.29	0.47	0.06	0.26	1/4	3/4	21	
54851BEUB0616		23 Navy	3/8	2.10	0.56	0.06	0.26	3/8	1	21	
54852BEUB	#6	30 Navy	1/4	1.28	0.44	0.08	0.30	1/4	5/8	24	Blue
256306951014B		61/24 = 24.6 kcmil	1/4	1.63	0.43	0.08	0.30	1/4	1	24	
54852BEUB0412		#6 Weld	1/4	1.43	0.43	0.08	0.30	1/4	3/4	24	
54852BEUB0616			3/8	1.93	0.59	0.06	0.30	3/8	1	24	
54852BEUB0828			1/2	3.00	0.88	0.11	0.30	1/2	1 3/4	24	
54854BEUB	#4	40–50 Navy	1/4	1.19	0.52	0.10	0.37	1/4	5/8	29	Gray
54854BEUB0412		#5, 91/24 = 36.7 kcmil	1/4	1.31	0.56	0.09	0.37	1/4	3/4	29	
54854BEUB0416		#4 Weld	1/4	1.88	0.58	0.09	0.37	3/8	1	29	
54854BEUB0516			5/16	1.75	0.56	0.10	0.37	11/32	1	29	
54854BEUB0616			3/8	1.98	0.59	0.09	0.37	3/8	1	29	
54854BEUB0828			1/2	3.00	0.88	0.09	0.37	1/2	1 3/4	29	
54858BEUB0416	#2–3	60 Navy	1/4	1.88	0.67	0.09	0.41	3/8	1	33	Brown
54855BEUB		#3 Weld	1/4	1.28	0.59	0.11	0.41	1/4	5/8	33	
54855BEUB0412		125/24 = 50.4 kcmil	1/4	1.35	0.68	0.11	0.41	1/4	3/4	33	
54856BEUB			5/16	1.63	0.59	0.11	0.41	3/8	3/4	33	
54810BEUB			3/8	2.57	0.59	0.11	0.41	3/8	1 3/4	33	
54810BEUB0616			3/8	1.94	0.59	0.11	0.41	3/8	1	33	
54811BEUB			1/2	3.00	0.88	0.11	0.41	1/2	1 3/4	33	
54809BEUB	#1	75 Navy	1/4	1.19	0.67	0.11	0.47	1/4	5/8	37	Green
54812BEUB		150/24 = 60.5 kcmil	1/4	1.40	0.67	0.11	0.47	1/4	3/4	37	
54858BEUB		175/24 = 70.6 kcmil	5/16	1.63	0.67	0.11	0.47	3/8	7/8	37	
54857BEUB0616		#2 Weld	3/8	1.98	0.67	0.11	0.47	3/8	1	37	
54857BEUB			1/2	3.00	0.88	0.11	0.47	1/2	1 3/4	37	
54859BEUB0416	1/0	100 Navy	1/4	1.88	0.75	0.13	0.52	3/8	1	42	Pink
54859BEUB0416PH		#1 Weld	1/4	1.88	0.75	0.13	0.52	3/8	1	42	
54859BEUB		225/24 = 90.8 kcmil	1/4	1.19	0.75	0.13	0.52	1/4	5/8	42	
54813BEUB			1/4	1.38	0.75	0.13	0.52	1/4	3/4	42	
54860BEUB			5/16	1.63	0.75	0.13	0.52	3/8	7/8	42	
54860BEUB0616			3/8	1.98	0.75	0.13	0.52	3/8	1	42	
54860BEUB0828			1/2	3.00	0.75	0.13	0.52	5/8	1 3/4	42	
54814BEUB	2/0	125 Navy	1/4	1.25	0.83	0.13	0.57	1/4	5/8	45	Black
54814BEUB0412		275/24 = 111 kcmil	1/4	1.31	0.81	0.13	0.57	1/4	3/4	45	
54862BEUB0616		1/0 Weld	3/8	1.81	0.83	0.13	0.57	3/8	1	45	
54862BEUB0616PH			3/8	1.81	0.83	0.13	0.57	3/8	1	45	
54862BEUB			1/2	2.81	0.83	0.13	0.57	1/2	1 3/4	45	

† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – Two-hole long-barrel

Two-hole lugs – 90˚ Long barrel 600 V to 35 kV (continued)

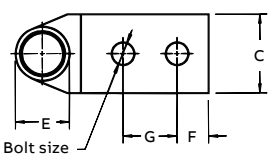


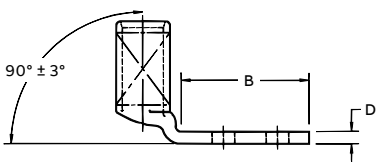
Two-hole lugs – 90˚ Long barrel 600 V to 35 kV

Peep holes available! Add suffix PH.
Material – High-conductivity wrought copper
Finish – Electro tin plate

Cat. no.	Wire size: Code (AWG or kcmil)	Wire size: Flex class G, H, I, K, M†	Bolt size (in.)	Dimensions (in.): B	C	D	E	F	G	Die code	Die color
54815BEUB	3/0	150 Navy 2/0 Weld 325/24 = 131 kcmil	¼	1.45	0.92	0.13	0.63	¼	¾	50	Orange
54816BEUB			⅜	1.63	0.92	0.13	0.63	⅜	¾	50	
54864BEUB			½	3.00	0.94	0.13	0.63	½	1¾	50	
54817BEUB	4/0	200 Navy 450/24 = 182 kcmil 3/0 Weld	¼	1.38	1.03	0.14	0.70	¼	¾	54	Purple
54818BEUB			⅜	2.63	1.03	0.14	0.70	⅜	1¾	54	
54818BEUB0616			⅜	1.81	1.03	0.14	0.70	⅜	1	54	
54818BEUB0616PH			⅜	1.88	1.03	0.14	0.70	⅜	1	54	
54866BEUB			½	3.00	1.03	0.14	0.70	½	1¾	54	
54868BEUB0616	250	250 Navy 550/24 = 222 kcmil 4/0 Weld	⅜	1.93	1.13	0.14	0.77	⅜	1	62	Yellow
54868BEUB0616PH			⅜	1.93	1.13	0.14	0.77	⅜	1	62	
54868BEUB			½	3.00	1.13	0.14	0.77	½	1¾	62	
54819BEUB	300	300 Navy 250 Weld, 26, 2, 650/24	⅜	2.80	1.25	0.15	0.85	⅜	1	66	White
54870BEUB			½	3.00	1.25	0.15	0.85	½	1¾	66	
54820BEUB	350	–	¼	1.93	1.36	0.18	0.93	¼	¾	71	Red
54872BEUB0616			⅜	1.93	1.36	0.18	0.93	⅜	1	71	
54872BEUB0616PH			⅜	1.93	1.36	0.18	0.93	⅜	1	71	
54872BEUB			½	3.00	1.36	0.18	0.93	½	1¾	71	
54822BEUB	400	400 Navy 775/24 = 313 kcmil 300 Weld, 350, 259 Str.	¼	1.93	1.41	0.17	0.96	¼	¾	76	Blue
54821BEUB			⅜	1.93	1.41	0.17	0.96	⅜	1	76	
54874BEUB			½	3.00	1.41	0.17	0.96	½	1¾	76	
54823BEUB	500	400 Weld, G, H, I 925/24 = 373 kcmil 350, K	¼	1.94	1.61	0.22	1.10	¼	¾	87	Brown
54823BEUB0616			⅜	1.93	1.61	0.22	1.10	⅜	1	87	
54876BEUB0616PH			⅜	1.93	1.61	0.22	1.10	⅜	1	87	
54876BEUB			½	3.00	1.61	0.22	1.10	½	1¾	87	
54824BEUB	600	450 Weld, I, K 1100/24 = 444 kcmil	⅜	2.80	1.75	0.24	1.20	⅜	1	94	Green
54878BEUB			½	3.00	1.75	0.24	1.20	½	1¾	94	
54880BEUB0616	750	500, G, H, I, K 1325/24 = 535 kcmil	⅜	2.06	1.94	0.27	1.33	½	1	106	Black
54880BEUB0616PH			⅜	2.06	1.94	0.27	1.33	½	1	106	
54880BEUB			½	3.00	1.94	0.27	1.33	½	1¾	106	
58884BEUB	–	1600/24 = 646 kcmil	½	3.00	1.94	0.27	1.33	½	1¾	106	
58826BEUB	900	1925/24 = 777 kcmil	½	3.00	2.18	0.31	1.50	½	1¾	115	Yellow
54826BEUB	1000	1000 Navy	⅜	2.80	2.27	0.30	1.55	⅜	1	125	–
54882BEUB			⅜	3.00	2.27	0.30	1.55	½	1¾	125	

Diagrams





† Contact technical services for specific stranding listings. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Copper compression lugs – 15 kV

Copper one-hole lugs for 600 V to 35 kV

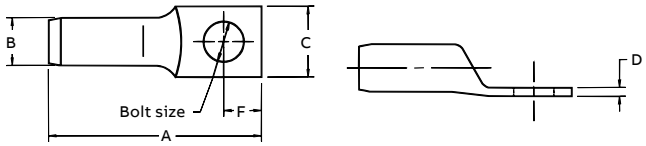


These connectors are recommended for up to 15 kV applications. Installed with standard ABB cat. no. TBM15I, 13100A, TBM14M hydraulic compression tools with special rounding dies, the compression forms the connector and conductor into a solid mass to provide an optimum electrical bond between connector and conductor. The rounding die-overlapped compressions provide a smooth, round surface. This, combined with the tapered barrel ends, helps address the controlling of potentially damaging electrical stresses of high voltages.

Copper one-hole lugs for 600 V to 35 kV applications

									Installing tools		
									13100A, TBM15I* & TBM14M		
			Dimensions (in.)								
Cat. no.	Cable size† (AWG or kcmil)	Stud size (in.)	A	B	C	D	E	F	Die set Cat. no.	Strip length (in.)	Color code
54440	#4	3/8	2.08	0.81	0.58	0.08	3/8	1/2	15CA29R	1 7/16	Gray
54443	#2	3/8	2.25	0.81	0.66	0.09	3/8	1/2	15CA33R	1 7/16	Brown
54448	#1	3/8	2.36	0.81	0.69	0.10	3/8	1/2	15CA37R	1 19/32	Green
54409	1/0	3/8	2.38	0.81	0.75	0.12	3/8	1/2	15CA42R	1 5/8	Pink
54460	2/0	1/2	2.73	1.06	0.83	0.12	1/2	1/2	15CA45R	1 5/8	Black
54465	3/0	1/2	2.81	1.06	0.94	0.12	1/2	1/2	15CA49R	1 3/4	Orange
54470	4/0	1/2	2.78	1.06	1.00	0.13	1/2	1/2	15CA54R	1 13/16	Purple
54413	250	1/2	3.19	1.06	1.07	0.14	1/2	1/2	15CA60R	2 1/32	Ruby

Diagrams



† Cable size: concentric and compact strandings.
* Cat. no. TB15500 die adapter required for TBM15I.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – 15 kV

Copper two-hole lugs for 600 V to 35 kV applications

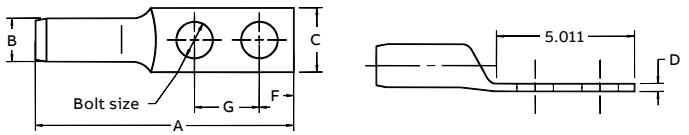


These connectors are recommended for up to 15 kV applications. Installed with standard ABB cat. no. TBM15I, 13100A, TBM14M hydraulic compression tools with special rounding dies, the compression forms the connector and conductor into a solid mass to provide an optimum electrical bond between connector and conductor. The rounding die-overlapped compressions provide a smooth, round surface. This, combined with the tapered barrel ends, helps address the controlling of potentially damaging electrical stresses of high voltages.

Copper two-hole lugs for 600 V to 35 kV applications

											Installing tools	
											13100A, TBM15I* & TBM14M	
			Dimensions (in.)									
Cat. no.	Cable size† (AWG or kcmil)	Stud size (in.)	A	B	C	D	E	F	G	Die set Cat. no.	Strip length (in.)	Color code
54475	1/0	3/8	3.56	17/32	0.77	0.12	3/8	3/8	1.00	15CA42R	1 5/8	Pink
54476	2/0	1/2	4.67	9/16	0.83	0.12	1/2	1/2	1.75	15CA45R	1 5/8	Black
54478	3/0	1/2	4.75	5/8	0.94	0.12	1/2	1/2	1.75	15CA49R	1 3/4	Orange
54479	4/0	1/2	4.64	11/16	1.00	0.13	1/2	1/2	1.75	15CA54R	1 13/16	Purple
54480	250	1/2	5.17	3/4	1.08	0.14	1/2	1/2	1.75	15CA60R	2 1/32	Ruby
54481	300	1/2	5.16	13/16	1.19	0.16	1/2	1/2	1.75	15CA66R	2 3/32	White
54482	350	1/2	5.35	7/8	1.29	0.19	1/2	1/2	1.75	15CA71R	2 13/32	Red
54483	400	1/2	5.35	59/64	1.36	0.18	1/2	1/2	1.75	15CA76R	2 13/32	Blue
54484	500	1/2	5.60	1 1/16	1.54	0.23	1/2	1/2	1.75	15CA87R	2 13/32	Brown
54485	600	1/2	5.83	1 11/64	1.70	0.24	1/2	1/2	1.75	15CA94R	2 9/16	Green
54487	750	1/2	6.13	1 19/64	1.89	0.27	1/2	1/2	1.75	15CA106R	2 3/4	Black
54490	1000	1/2	6.60	1 1/2	2.18	0.31	1/2	1/2	1.75	15C125R•	2 29/32	–

Diagrams



• 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 – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – Belled

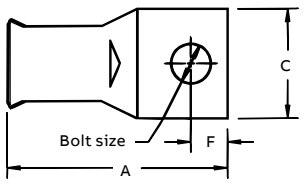
Bell-ended lugs – Standard barrel

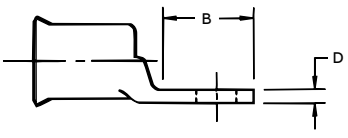


Bell-shaped barrel

Cat. no.	Wire size (AWG or kcmil) Code	Navy	Flex	Class G	H	I	K	M	Bolt size (in.)	Dimensions (in.) A	B	C	D	F	Die code	Die color
54104BS	#8	23	37/24	8	8	–	8	8	#10	1 1/16	15/32	13/32	5/64	7/32	21	Red
54105BS	#6	30	61/24	5	5	5	5	5	1/4	1 3/16	9/16	7/16	7/64	1/4	24	Blue
54106BS	#4	40–50	91/24	5	5	5	5	5	1/4	1 9/32	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 7/16	25/32	19/32	5/64	11/32	29	
54142BS	#2	60	125/24	3	3	3	3	3	5/16	1 17/32	23/32	21/32	5/64	11/32	33	Brown
54147BS	#1	75	150, 175/24	2	2	2	2	2	5/16	1 21/23	23/32	43/64	1/8	3/8	37	Green
54153BS	1/0	100	225/24	1	1	1	1	1	5/16	1 5/8	23/32	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 7/8	13/16	13/16	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	15/16	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 5/8	1 3/16	1 3/8	13/64	9/16	66	
54185BS	400	400	775/24	300	300	300	300	300	5/8	3 7/16	1 11/16	1 13/32	7/32	13/16	76	Blue
58177BS	500	–	925/24	400	400	400	350	350	1/2	3	1 5/16	1 5/8	1/4	13/16	80	–
58180BS	600	–	1100/24	–	–	450	450	450	5/8	3 5/8	1 11/16	1 25/32	17/64	13/16	94	Green
54122BS	700	–	1325/24	500	500	500	500	500	5/8	3 5/8	1 11/16	1 25/32	9/32	13/16	99	Pink
54123BS	750	–	–	600	–	–	–	550	5/8	3 5/8	1 11/16	1 15/16	5/16	13/16	106	Black
54124BS	800	800	–	–	–	–	600	–	5/8	3 13/16	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	11/32	7/8	115	Yellow

Diagrams





Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – Belled

Bell-ended lugs – Long barrel



Bell-shaped copper lugs with two bolt holes

Cat. no.	Wire size (AWG or kcmil) Code	Navy	Flex	G	H	I	K	Class M	Bolt size (in.)	Dimensions (in.) A	B	C	D	E	F	G	Die code	Die color
54850BEBS	#8	23	8	8	8	–	8	–	¼	2.19	1.88	0.42	0.07	0.26	0.25	0.63	21	Red
54851BEBS									¼	2.31	1.29	0.47	0.06	0.26	0.25	0.75	21	
54851BE0616BS									⅜	3.00	2.10	0.56	0.06	0.26	0.38	1.00	21	
54852BE0616BS	#6	30	6	5	5	5	5	–	⅜	2.93	1.93	0.59	0.06	0.30	0.38	1.00	24	Blue
54852BEBS									¼	2.28	1.28	0.44	0.08	0.30	0.25	0.63	24	
54852BE0412BS									¼	2.43	1.43	0.43	0.07	0.30	0.25	0.75	24	
54854BEBS	#4–3	40–50	5	5	5	5	5	–	¼	2.31	1.19	0.52	0.10	0.37	0.25	0.63	29	Gray
54854BE0412BS									¼	2.31	1.31	0.56	0.09	0.37	0.25	0.75	29	
54854BE0616BS									⅜	3.13	1.98	0.59	0.09	0.37	0.38	1.00	29	
54855BE0412BS	#2	60	3	3	3	3	3	3	¼	2.63	1.35	0.68	0.11	0.41	0.25	0.75	33	Brown
54855BEBS									¼	2.43	1.28	0.59	0.11	0.41	0.25	0.63	33	
54856BEBS									3⁄16	2.78	1.63	0.59	0.11	0.41	0.38	0.75	33	
54810be0616BS									⅜	3.08	1.94	0.59	0.11	0.41	0.38	1.00	33	
54811BEBS									½	4.28	3.00	0.88	0.09	0.41	0.50	1.75	33	
54809BEBS	#1	75	2	2	2	2	2	2	¼	2.88	1.19	0.67	0.11	0.47	0.25	0.63	37	Green
54812BEBS									¼	2.75	1.40	0.67	0.11	0.47	0.25	0.75	37	
54858BEBS									5⁄16	2.97	1.63	0.67	0.11	0.47	0.38	0.88	37	
54857BEBS									½	4.43	3.00	0.88	0.10	0.47	0.50	1.75	37	
54859BEBS	1/0	100	1	1	1	1	1	1	¼	2.63	1.19	0.75	0.13	0.52	0.25	0.63	42	Pink
54813BEBS									¼	2.71	1.38	0.75	0.13	0.52	0.25	0.75	42	
54860BEBS									5⁄16	2.97	1.63	0.75	0.13	0.52	0.38	0.88	42	
54860BE0616BS									⅜	3.23	1.93	0.75	0.13	0.52	0.38	1.00	42	
5414BEBS	2/0	125	1/0	1/0	1/0	1/0	1/0	1/0	¼	2.62	1.25	0.83	0.13	0.57	0.25	0.63	45	Black
54814BE0412BS									¼	2.69	1.31	0.81	0.13	0.57	0.25	0.75	45	
54862BE0616BS									⅜	3.19	1.81	0.83	0.13	0.57	0.38	1.00	45	
54862BEBS									½	4.20	2.81	0.83	0.13	0.57	0.50	1.75	45	
54815BEBS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	¼	2.89	1.45	0.92	0.13	0.63	0.25	0.75	50	Orange
54816BEBS									⅜	3.25	1.63	0.92	0.13	0.63	0.38	1.00	50	
54864BEBS									½	4.45	3.00	0.92	0.13	0.63	0.50	1.75	50	
54817BEBS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	¼	3.15	1.38	1.03	0.14	0.70	0.50	0.75	54	Purple
54818BE0616BS									⅜	3.35	1.81	1.03	0.14	0.70	0.25	1.00	54	
54818BEBS									⅜	4.38	2.63	1.03	0.14	0.70	0.38	1.75	54	
54866BEBS									½	4.70	3.00	1.03	0.14	0.70	0.50	1.75	54	
54868BE0616BS	250	–	4/0	4/0	4/0	4/0	4/0	4/0	⅜	3.83	1.93	1.13	0.14	0.77	0.50	1.00	62	Yellow
54868BEBS									½	4.92	3.00	1.13	0.14	0.77	0.50	1.75	62	
54819BEBS	300	300	262	250	250	250	250	–	⅜	5.04	2.80	1.25	0.15	0.85	0.50	1.00	66	White
54870BEBS									½	5.23	3.00	1.25	0.15	0.85	0.50	1.75	66	

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – Belled

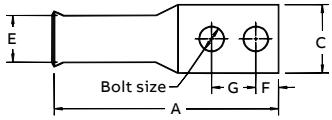
Bell-ended lugs – Long barrel (continued)

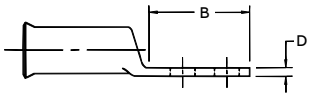


Bell-shaped copper lugs with two bolt holes

Cat. no.	Wire size (AWG or kcmil) Code	Navy	Flex	Class G	H	I	K	M	Bolt size (in.)	Dimensions (in.) A	B	C	D	E	F	G	Die code	Die color
54822BEBS	400	400	313	300	300	300	300	–	¼	4.38	1.93	1.41	0.17	0.96	0.63	0.75	76	Blue
54821BEBS									⅜	4.43	1.93	1.41	0.17	0.96	0.63	1.00	76	
54874BEBS									½	5.51	3.00	1.41	0.17	0.96	0.63	1.75	76	
54823BEBS	500	–	373	400	400	400	350	–	¼	4.93	1.94	1.61	0.22	1.10	0.50	0.75	87	Brown
54876BE0616BS									⅜	5.00	1.93	1.61	0.22	1.10	0.50	1.00	87	
54876BEBS									½	6.00	3.00	1.61	0.22	1.10	0.50	1.75	87	
54824BEBS	–	–	444	–	–	450	450	–	⅜	5.70	2.80	1.75	0.24	1.20	0.63	1.00	94	Green
54878BEBS									½	5.83	3.00	1.75	0.24	1.20	0.63	1.75	94	
54880BEBS	700	–	535	500	500	500	500	–	½	6.20	3.00	1.94	0.27	1.33	0.63	1.75	106	Black
58826BEBS	900	–	777	–	–	–	–	–	½	6.49	2.80	2.27	0.30	1.50	0.63	1.75	115	Yellow

Diagrams





Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – Double-barrel

Two-barrel lugs for 600 V to 35 kV applications



Material – High-conductivity wrought copper
Finish – Electro tin plate

Two-barrel lugs for 600 V to 35 kV applications

Cat. no.	Wire size (AWG or kcmil) Code	Flex	Hole size (in.)	Fig. no.	Dimensions (in.) A	W	T	Die code	Color key
256-30695-828	#6	61/24	¼	1	2 15/16	7/16	1/16	24	Blue
256-30695-1227				2	3 3/8	7/16	1/16	24	

Diagrams

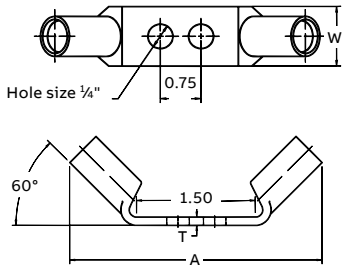


Figure 1

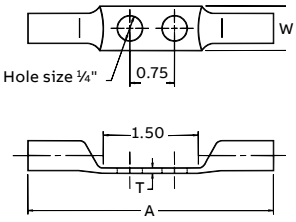


Figure 2

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – Cast

Cast copper one-hole lugs for 600 V to 35 kV applications – Heavy duty

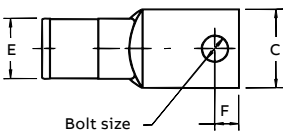


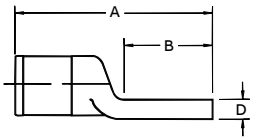
Material – Cast copper
Finish – Electro tin plate

Cast copper one-hole lugs for 600 V to 35 kV applications – Heavy duty

Cat. no.	Cable size (AWG or kcmil)	Dimensions (in.) A	B	C	D	F	Bolt size (in.)	Die code
53104	#8	1 7/16	3/4	1/2	1/8	9/32	#10	29
53105	#6	1 7/16	3/4	1/2	1/8	9/32	1/4	29
53106	#4	1 7/16	3/4	1/2	1/8	9/32	1/4	29
53107	#2	2	1	3/4	1/4	7/16	1/4	45
53108	#1	2	1	3/4	1/4	7/16	1/4	45
53109	1/0	2	1	3/4	1/4	7/16	3/8	45
53161*	325/24	2 3/16	3/4	13/16	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	3 1/16	1 1/2	1 3/16	5/16	3/4	1/2	76
53114	300	3 1/16	1 1/2	1 3/16	5/16	3/4	1/2	76
53115	350	3 13/16	2	1 3/8	3/8	13/16	1/2	99
53116	400	3 13/16	2	1 3/8	3/8	13/16	1/2	99
53118	500	3 13/16	2	1 3/8	3/8	13/16	1/2	99
53168*	1100/24	3 15/16	1 5/8	1 5/8	13/32	7/8	1/2	107
53169*	1325/24	3 5/16	1 5/8	1 5/8	13/32	7/8	1/2	107
53123	750	4 3/16	2 1/8	1 5/8	7/16	1	1/2	112
53173*	2750/24	5 1/16	1 7/8	2 1/8	9/16	1 3/16	1/2	150

Diagrams





All other cat. nos.: Use hydraulic tools with hex dies.
* No UL/CSA
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression lugs – Cast

Cast copper two-hole lugs for code copper cable 600 V to 35 kV



Material – Cast copper
Finish – Electro tin plate

Cast copper two-hole lugs for code copper cable 600 V to 35 kV

				Dimensions (in.)								No. of crimps		
	Cat. no.	Code cable size (AWG or kcmil)	Bolt G size (in.)	A Approx.	B	C	D	E	F	H	Die code	12 Ton	15 Ton	40 Ton
Diagrams	256-30695-1055	#14–10	1/4	2	1 5/16	1/2	1/8	3/8	1/4	5/8–3/4	29	1	1	1
	53204	#8	1/4	2	1 5/16	1/2	3/32*	3/8	1/4	5/8	29	1	1	1
	53205	#8	1/4	2	1 5/16	1/2	1/8	3/8	1/4	5/8	29	1	1	1
	53206	#4	1/4	2	1 5/16	1/2	1/8	3/8	1/4	5/8	29	1	1	1
	53207	#2	1/4	3	2	3/4	1/8	1 9/32	1/2	3/4	45	1	1	1
	53208	#1	1/4	3	2	3/4	1/4	1 9/32	1/2	1	45	1	1	1
	53209	1/0	3/8	3	2	3/4	1/4	1 9/32	1/2	1	45	1	1	1
	53210	2/0	3/8	4 5/16	3	3/4	3/16*	2 7/32	5/8	1 3/4	66	1	1	1
	53211	3/0	1/2	4 5/16	3	1	9/32	2 7/32	5/8	1 3/4	66	1	1	1
	53212	4/0	1/2	4 5/16	3	1	9/32	2 7/32	5/8	1 3/4	66	1	1	1
	53213	250	1/2	4 9/16	3	1 3/16	3/16*	1 5/16	5/8	1 3/4	76	1	1	1
	53214	300	1/2	4 9/16	3	1 3/16	5/16	1 5/16	5/8	1 3/4	76	1	1	1
	53215	350	1/2	5 5/16	3 1/2	1 3/8	1/4*	1 7/32	5/8	1 3/4	99	2	1	1
	53216	400	1/2	5 5/16	3 1/2	1 3/8	3/8	1 7/32	5/8	1 3/4	99	2	1	1
	53218	500	1/2	5 5/16	3 1/2	1 3/8	3/8	1 7/32	5/8	1 3/4	99	2	1	1
	53220M	600	1/2	5 5/16	3 1/2	1 5/8	17/32	1 23/64	5/8	1 3/4	112	2	1	1
	53222M	700	1/2	5 5/16	3 1/2	1 5/8	±1/32	1 23/64	5/8	1 3/4	112	2	1	1
	53223M	750	1/2	5 5/16	3 1/2	1 5/8	±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 5/8	13/32	1 3/8	5/8	1 3/4	107	2	1	1
	53224	800	1/2	6	3 1/2	1 7/8	5/16*	1 9/16	5/8	1 3/4	130	–	1	1
	53226	900	1/2	6	3 1/2	1 7/8	15/32	1 9/16	5/8	1 3/4	130	–	1	1
	53228	1000	1/2	6	3 1/2	1 7/8	15/32	1 9/16	5/8	3/4	130	–	1	1
	53273	1111 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	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	1/2	7 5/16	3 1/2	2	1/2	1 7/8	5/8	1 3/4	150	–	1	–
	53433L**	1500	1/2	7 5/16	3 1/8	3	1/2	1 7/8	5/8	1 3/4	150	–	1	–
	251-30485-1275	1250	1/2	6 3/16	3 1/2	2 1/8	9/16	1 29/32	5/8	1 3/4	150	–	–	–
	251-30485-1211	1750	–	6 3/8	3 1/8	3	1/2	2 3/16	–	–	175	–	–	2 (Fig. 2)
	251-30485-1212	1750	–	6 3/8	3 1/2	2 1/4	1/2	2 3/16	–	–	175	–	–	2 (Fig. 1)
	53239	2000	1/2	6 3/16	3 1/2	2 3/4	1/2	2 3/16	5/8	1 3/4	175	–	–	–
	53239L	169/0.110 178/0.104 2000	1/2	7 5/16	3 1/8	2 1/4	1/2	2 15/32	5/8	1 3/4	175	–	–	–
	53439L**	169/0.110 178/0.104 2000	1/2	7 5/16	3 1/8	3	1/2	2 3/16	5/8	1 3/4	175	–	–	11421 Die

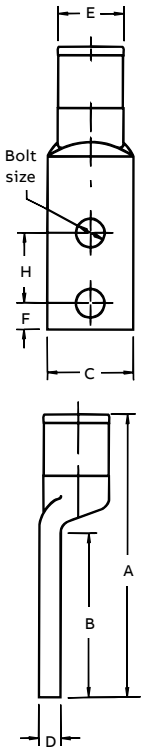


Figure 1

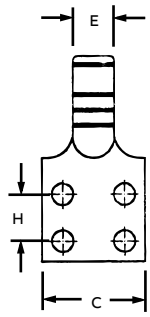


Figure 2

* Denotes tongue thickness of alternate construction (brazed wrought-copper tongue). ** Figure 2. All others figure 1. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

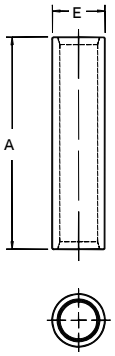
Copper compression splices

Two-way splice connectors – Standard barrel 600 V to 35 kV



Material – High conductivity wrought copper
Finish – Electro tin plate
Two-way connectors provide high pullout values, are simple to insulate and provide a low-resistance connection of high quality and low installed cost.

Two-way splice connectors – Standard barrel 600 V to 35 kV

Diagram	Cat. no.	Code (AWG or kcmil)	Wire size (AWG or kcmil) Flex class G, H, I, K, M†	Dimensions (in.) A	Dimensions (in.) E	Die code	Die color
	54504	#8	37/24 = 14.9, #8 Weld	1.00	0.27	21	Red
	54505	#6	61/24 = 24.6, #6 Weld, 133/0.014	1.00	0.30	24	Blue
	54506	#4	91/24 = 36.7, 133/0.0177, 49/0.029	1.00	0.37	29	Gray
	54507	#2	125/24 = 50.4, #4 Weld	1.25	0.41	33	Brown
	54508	#1	150/24 = 60.5, 175/24 = 70.6, #2 Weld, 133/0.0223	1.50	0.47	37	Green
	54509	1/0	225/24 = 90.8, #1 Weld, 133/0.0254	1.63	0.52	42	Pink
	54510	2/0	275/24 = 111, 1/0 Weld, 427/0.0155, 133/0.0282	1.75	0.57	45	Black
	54511	3/0	325/24 = 131, 2/0 Weld, 133/0.0316, 259/0.0227, 427/0.0177	1.75	0.63	50	Orange
	53962		375/24 = 179, 133/0.0355, 259/0.0255, 427/0.0199	1.81	0.70	50	
	54512	4/0	450/24 = 182, 3/0 Weld, 703/0.0154	1.88	0.70	54	Purple
	54513	250	550/24 = 222, 4/0 Weld, 133/0.0399, 259/0.0286, 637/0.0183	2.25	0.77	62	Yellow
	53964			2.13	0.79	62	
	54514	300	–	2.13	0.83	66	White
	54515	350	–	2.25	0.90	71	Red
	54516	400	–	2.75	0.93	76	Blue
	53968	500	1100/24 = 444, 500 Weld, 259/.0417, 427/0.0325, 703/0.0253	3.00	1.13	87	Brown
	54518		–	2.75	1.11	87	
	54520	600	–	3.00	1.18	94	Green
	54522-TB	700	–	3.25	1.23	99	Pink
	53969		1325/24 = 535, 427/0.0342	3.00	1.24	99	
	54523-TB	750	–	3.00	1.30	106	Black
	54528	1000	–	3.63	1.50	125	–
	54530	1250	–	4.13	1.67	140	

† Contact technical services for specific stranding listings

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression splices

Two-way splice connectors – Long barrel 600 V to 35 kV



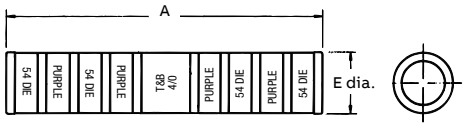
Material – High conductivity wrought copper
Finish – Electro tin plate

Two-way splice connectors – Long barrel 600 V to 35 kV

Cat. no.	Wire size (AWG or kcmil) Code	Flex class G, H, I, K, M†	Dimensions (in.) A	E	Die Code	Die color
54804	#8	37/24 = 14.9	1.75	0.27	21	Red
54805	#6	61/24 = 24.6	1.75	0.31	24	Blue
54806	#4	91/24 = 36.7	1.75	0.39	29	Gray
54807	#2	125/24 = 50.4	1.88	0.43	33	Brown
54808	#1	150/24 = 60.5, 175/24 = 70.6	2.00	0.49	37	Green
54809*	1/0	225/24 = 90.8	2.00	0.54	42	Pink
54810*	2/0	275/24 = 111	2.13	0.59	45	Black
54811	3/0	325/24 = 131	2.25	0.65	50	Orange
54812*	4/0	450/24 = 182	2.75	0.72	54	Purple
54813*	250	550/24 = 222	3.38	0.79	62	Yellow

Cat. no.	Wire size (AWG or kcmil) Code	Flex	Dimensions (in.) A	E	Die code	Die color
54814	300	–	3.50	0.87	66	White
54815	350	650/24 = 262	3.75	0.95	71	Red
54816	400	775/24 = 313	3.75	0.98	76	Blue
54818*	500	925/24 = 373	4.75	1.11	87	Brown
54820	600	1100/24 = 444	4.25	1.21	94	Green
54823	750	1325/24 = 535	4.75	1.34	106	Black
58524	–	1600/24 = 646	5.00	1.39	106	
58526	900	1925/24 = 777	5.50	1.51	115	Yellow
54828	1000	–	5.63	1.56	125	–
54833	1500	–	5.63	1.56	125	
54839	2000	–	7.06	2.125	–	

Diagram



† Contact technical services for specific stranding listings
* UL listed for direct burial applications

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression splices

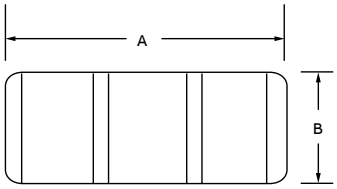
Copper two-way splice connectors for 600 V to 35 kV applications



Copper two-way splice connectors for 600 V to 35 kV applications

						Installing tools
						13100A, TBM15I* & TBM14M
		Dimensions (in.)				
Cat. no.	**Cable size+ (AWG or kcmil)**	**A**	**B**	**Die set Cat. no.**	**Strip length (in.)**	**Color code**
54006	#4	2.00	0.37	15CA29R	1½	Gray
54007	#2	2.13	0.41	15CA33R	1⅝	Brown
54008	#1	2.25	0.47	15CA37R	1⅝	Green
54009	1/0	2.38	0.52	15CA42R	1¾	Pink
54010	2/0	2.38	0.57	15CA45R	1¾	Black
54011	3/0	2.63	0.63	15CA49R	1 13/16	Orange
54012	4/0	2.69	0.69	15CA54R	1 13/16	Purple
54013	250	3.19	0.74	15CA60R	2⅛	Ruby
54015	350	4.13	0.89	15CA71R	2⅝	Red
54018	500	4.13	1.06	15CA87R	2⅝	Brown
54023	750	4.75	1.30	15CA106R	2⅞	Black

Diagram



* Cat. No. 15500-TB die adapter required for TBM15I.
+ Cable size: concentric and compact strandings.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression splices

Cast-copper two-way splice connectors for 600 V to 35 kV applications – Heavy-duty



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.

Cast-copper two-way splice connectors for 600 V to 35 kV applications – Heavy duty

Cat. no.	Cable size (AWG or kcmil)	Die code
53504	#8	29
53505	#6	29
53506	#4	29
53507	#2	45
53508	#1	45
53509	1/0	45
53510	2/0	66
53511	3/0	66
53512	4/0	66
53513	250	76
53515	350	99
53518	500	99
53523	750	112

Use hydraulic tools with hex dies.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper compression splices

Cast-copper reducing splices



01 Simple installation with Color-Keyed compression tools (see pages 91-115) and dies (see pages 116-121)

ABB 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 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 600 V–35 kV 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

Cast-copper reducing splices

Cat. no.	Cable size (AWG or kcmil) Cond. 1	Cond. 2	Dimensions (in) A	E	Die code	Die color
251-30485-19	4/0 Str.	#2 Str.	2¼	13/16	66	White
251-30485-91	500 Str.	300 Str.	3 5/16	13/16	99	Pink
251-30485-229	2/0 Str.	250 Str.	2⅜	15/16	76	Blue
251-30485-247	#2 Str.	#8 Str.	1 9/16	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	
251-30485-331	4/0 Str.	350 Str.	3 5/16	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.	1 9/16	19/32	45	Black
251-30485-610	#6 Str.	#8 Str.	1 7/32	⅜	29	Gray
251-30485-611	#4 Str.	#8 Str.	1 7/32	⅜	29	
251-30485-612	#4 Str.	#6 Str.	1 7/32	⅜	29	
251-30485-613	#2 Str.	#6 Str.	1 9/16	19/32	45	Black
251-30485-640	4/0 Str.	1/0 Str.	2¼	13/16	66	White
251-30485-653	#2 Str.	250 Str.	2⅜	15/16	76	Blue
251-30485-739	1/0 Str.	250 Str.	2⅜	15/16	76	
251-30485-882	400 Str.	350 Str.	3 5/16	17/32	99	Pink
251-30485-950	1/0 Str.	#6 Str.	1 9/16	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.	1 9/16	19/32	45	Black
251-30485-1029	1/0 Str.	#12 Str.	1 9/16	37/64	45	
251-30485-1030	10 Str.	#4 Str.	1 7/32	⅜	29	Gray
251-30485-1031	12 Str.	#4 Str.	1 7/32	⅜	29	
251-30485-1032	#6 Str.	#10 Str.	1 7/32	⅜	29	
251-30485-1034	#14 Str.	#8 Str.	1 7/32	⅜	29	

*Cast solid – field modifiable special.

Cat. no.	Cable size (AWG or kcmil) Cond. 1	Cond. 2	Dimensions (in) A	E	Die code	Die color
251-30485-1035	#1 Str.	1/0 Str.	1 9/16	19/32	45	Black
251-30485-1044	#10 Str.	#8 Str.	1 7/32	⅜	29	Gray
251-30485-1045	#12 Str.	#8 Str.	1 7/32	⅜	29	
251-30485-1085	#10 Str.	1/0 Str.	1 9/16	19/32	45	Black
251-30485-1086	#10 Str.	2/0 Str.	2¼	27/32	66	White
251-30485-1087	#4 Str.	250 Str.	2⅜	15/16	76	Blue
251-30485-1088	400 Str.	250 Str.	3 5/16	17/32	99	Pink
251-30485-1089	#14 Str.	#8 Sol.	1 7/32	⅜	29	Gray
251-30485-1090	#12 Str.	#8 Sol.	1 7/32	⅜	29	
251-30485-1091	#10 Str.	#8 Sol.	1 7/32	⅜	29	
251-30485-1092	#12 Str.	#6 Sol.	1 7/32	⅜	29	
251-30485-1093	#8 Str.	#6 Sol.	1 7/32	⅜	29	
251-30485-1094	#4 Str.	#6 Sol.	1 7/32	⅜	29	
251-30485-1095	#2 Str.	#6 Sol.	1 9/16	19/32	45	Black
251-30485-1096	#12 Str.	#4 Sol.	1 7/32	⅜	29	Gray
251-30485-1097	#10 Str.	#4 Sol.	1 7/32	⅜	29	
251-30485-1098	#8 Str.	#4 Sol.	1 7/32	⅜	29	
251-30485-1099	#6 Str.	#4 Sol.	1 7/32	⅜	29	
251-30485-1100	1/0 Str.	#4 Sol.	1 9/16	19/32	45	Black
251-30485-1130	Cast Solid*	#12–#4 Str.	1 9/32	⅜	29	
251-30485-1245	1/0 Flex	#4 Flex	2¼	13/16	66	White
251-30485-1246	#4 Flex	#8 Flex	1 9/16	37/64	45	Black

Aluminum compression lugs

One-hole lugs



Performs on both aluminum and copper conductors.

- For 90 °C, 600 V to 35 kV applications
- Easily matched to the correct Color-Keyed installing die 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, homogeneous mass
- Long compression areas help ensure complete contact
- Multiple compressions help prevent creep of aluminum conductors
- Filled with high-temperature oxide-inhibitor compound
- Electro-tin plating helps prevent electrolytic corrosion of copper to provide lowest contact resistance

Material – High-conductivity wrought aluminum
Finish – Electro tin plate

One-hole lugs

Cat. no.	Cable size Al/Cu (AWG or kcmil)	Bolt size (in.)	Dimensions (in.) A	B	C	D	E	F	Color code	Die code
60096	#10	#10	1.09	0.56	0.41	0.06	0.270	0.22	21	Red
60097		1/4	1.31	0.72	0.43	0.07	0.270	0.34		
60099		3/8	1.53	0.93	0.58	0.06	0.270	0.44		
60101	#8	#10	1.22	0.56	0.41	0.09	0.280	0.22	24	Blue
60102		1/4	1.38	0.71	0.44	0.09	0.280	0.34		
60103		5/16	1.56	0.91	0.60	0.06	0.280	0.44		
60104-TB		3/8	1.60	0.93	0.60	0.06	0.280	0.44		
60106	#6	#10	1.52	0.59	0.47	0.13	0.350	0.22	29	Gray
60107		1/4	1.67	0.75	0.47	0.13	0.350	0.34		
60108		5/16	1.83	0.91	0.63	0.09	0.350	0.44		
60109		3/8	1.86	0.93	0.63	0.09	0.350	0.44		
60112	#4	1/4	1.81	0.75	0.64	0.19	0.460	0.34	37	Green
60113		5/16	2.00	0.91	0.64	0.19	0.460	0.44		
60114		3/8	2.03	0.93	0.64	0.19	0.460	0.44		
60116	#2	1/4	1.91	0.75	0.72	0.19	0.510	0.34	42	Pink
60117		5/16	2.06	0.91	0.72	0.19	0.510	0.44		
60118		3/8	2.09	0.93	0.72	0.19	0.510	0.44		
60120		1/2	2.25	1.41	0.88	0.13	0.510	0.69		
60122	#1	1/4	2.30	0.81	0.75	0.19	0.560	0.34	45	Gold
60123		5/16	2.39	0.91	0.75	0.19	0.560	0.44		
60124		3/8	2.42	0.93	0.75	0.19	0.560	0.44		
60126		1/2	2.89	1.41	0.88	0.16	0.560	0.69		
60128	1/0	1/4	2.36	0.81	0.88	0.19	0.620	0.34	50	Tan
60129		5/16	2.51	0.97	0.88	0.19	0.620	0.44		
60130		3/8	2.51	0.97	0.88	0.19	0.620	0.44		
60132		1/2	2.95	1.41	0.94	0.19	0.620	0.69		

Aluminum compression lugs

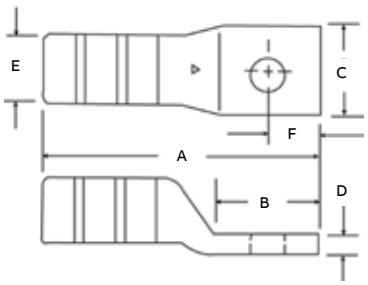
One-hole lugs (continued)

Performs on both aluminum and copper conductors.

One-hole lugs

Cat. no.	Cable size Al/Cu (AWG or kcmil)	Bolt size (in.)	Dimensions (in.) A	B	C	D	E	F	Color code	Die code
60134	2/0	1/4	2.48	0.87	0.97	0.22	0.700	0.34	54	Olive
60135		5/16	2.64	1.03	0.97	0.22	0.700	0.44		
60136		3/8	2.64	1.03	0.97	0.22	0.700	0.44		
60138		1/2	3.10	1.41	1.03	0.22	0.700	0.69		
60140	3/0	1/4	2.58	0.87	1.06	0.22	0.770	0.34	60	Ruby
60141		5/16	2.83	1.09	1.06	0.22	0.770	0.44		
60142		3/8	2.83	1.09	1.06	0.22	0.770	0.44		
60144		1/2	3.15	1.41	1.06	0.22	0.770	0.69		
60147	4/0	5/16	3.53	0.88	1.21	0.25	0.857	0.38	66	White
60148		3/8	3.58	0.93	1.21	0.25	0.857	0.38		
60150		1/2	3.90	1.25	1.21	0.25	0.857	0.50		
60151		5/8	4.65	2.00	1.21	0.25	0.857	0.75		
60154	250	3/8	3.73	0.93	1.29	0.27	0.917	0.38	71	Red
60156		1/2	4.05	1.25	1.29	0.27	0.917	0.50		
60157		5/8	4.80	2.00	1.29	0.27	0.917	0.75		
60159	300	5/16	3.75	0.88	1.39	0.28	0.990	0.38	76	Blue
60160		3/8	3.80	0.93	1.39	0.28	0.990	0.38		
60162		1/2	4.13	1.25	1.39	0.28	0.990	0.50		
60165	350	1/2	4.83	1.25	1.53	0.33	1.090	0.50	87	Brown
60166		5/8	5.58	2.00	1.53	0.33	1.090	0.75		
60168	400	1/2	4.95	1.25	1.65	0.38	1.180	0.50	94	Green
60171	500	1/2	4.95	1.25	1.79	0.38	1.280	0.50	99	Pink
60172		5/8	5.70	2.00	1.79	0.38	1.280	0.75		
60174	600	5/8	5.83	2.00	1.92	0.37	1.360	0.75	106	Black
60176	700	5/8	5.95	2.00	2.04	0.38	1.440	0.75	112	Purple
60178	750	5/8	6.03	2.00	2.13	0.40	1.500	0.75	115	Yellow
60184	1000	5/8	6.78	2.00	2.50	0.50	1.770	0.75	140	–

Diagrams



Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Aluminum compression lugs

Two-hole lugs



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

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

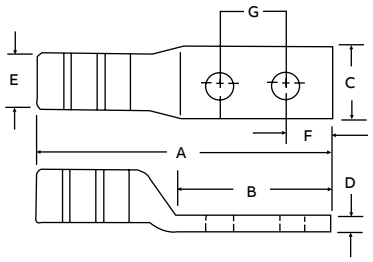
Material – High-conductivity wrought aluminum

Finish – Electro tin plate

Two-hole lugs

Cat. no.	Cable size (AWG or kcmil)	Bolt size (in.)	Dimensions (in.) A	B	C	D	E	F	G	Die code	Color code
60230	1/0	3/8	3.50	1.90	0.880	0.19	0.62	0.38	1.00	50	Tan
60236	2/0	3/8	3.50	1.90	0.970	0.22	0.70	0.38	1.00	54	Olive
60238	2/0	1/2	5.03	3.41	0.970	0.22	0.70	0.75	1.75		
60242	3/0	3/8	3.66	1.18	1.063	0.22	0.77	0.38	1.00	60	Ruby
60244	3/0	1/2	5.16	3.41	1.063	0.22	0.77	0.75	1.75		
60248	4/0	3/8	4.58	1.93	1.210	0.25	0.86	0.38	1.00	66	White
60250	4/0	1/2	5.65	3.00	1.210	0.25	0.86	0.50	1.75		
60254	250	3/8	4.73	1.93	1.290	0.27	0.92	0.38	1.00	71	Red
60256	250	1/2	5.80	3.00	1.290	0.27	0.92	0.50	1.75		
60260	300	3/8	4.80	1.93	1.390	0.28	0.99	0.38	1.00	76	Blue
60262	300	1/2	5.88	3.00	1.390	0.28	0.99	0.50	1.75		
60265	350	3/8	5.50	1.93	1.530	0.33	1.09	0.38	1.00	87	Brown
60267	350	1/2	6.58	3.00	1.530	0.33	1.09	0.50	1.75		
60268	400	3/8	5.63	1.93	1.650	0.38	1.18	0.38	1.00	94	Green
60269	400	1/2	6.70	3.00	1.650	0.38	1.18	0.50	1.75		
60271	500	3/8	5.63	1.93	1.790	0.38	1.28	0.38	1.00	99	Pink
60273	500	1/2	6.70	3.00	1.790	0.38	1.28	0.50	1.75		
60274	600	3/8	5.75	1.93	1.920	0.37	1.36	0.38	1.00	106	Black
60275	600	1/2	6.83	3.00	1.920	0.37	1.36	0.50	1.75		
60276	700	3/8	5.88	1.93	2.040	0.38	1.44	0.38	1.00	112	Purple
60277	700	1/2	6.95	3.00	2.040	0.38	1.44	0.50	1.75		
60278*	750	1/2	7.15	3.00	2.130	0.40	1.50	0.50	1.75	115	Yellow
60284	1000	1/2	7.78	3.00	2.500	0.50	1.77	0.50	1.75	140	–

Diagrams



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

Aluminum compression lugs

Two-hole narrow-tongue, long-barrel lugs



ABB Installation Products' Color-Keyed brand has long been known for pioneering the industry-standard method for color coding compression lugs and crimp dies for fool-proof matching and for its extensive line of copper compression lugs and splices.

Now this legacy brand is expanding its portfolio of aluminum lugs to cover even more applications and conductor sizes. In addition to being lighter in weight and more economical than copper, these two-hole, long-barrel aluminum lugs feature a narrow tongue, enabling termination of larger gauge wire in less space — perfect for circuit breaker connections in crowded panels.

These compression lugs can be used with either aluminum or copper cable. And for even more versatility, two lugs with range-taking designs allow one lug to be used with 350 to 500 kcmil or 500 to 750 kcmil cable sizes.

Features and benefits

- High conductivity wrought aluminum with electro tin plating — dual rated for terminating aluminum or copper conductors
- Narrow-tongue design takes up less room — ideal for use in limited-space panels
- Range-taking designs accommodate 350–500 kcmil or 500–750 kcmil cable sizes with just one lug
- Color-Keyed® color-coded identification system for easy matching of connectors with correct crimp dies
- Chamfered barrel design helps eliminate wire hang-ups and maximizes crimp area
- UL listed, CSA certified, RoHS compliant
- Provides a UL listed connection when properly terminated with ABB compression tools and dies

Installation tools

- Hydraulic tools:
  - TBM6H[1], TBM12[3], 13100A[3], TBM15I, 21940
- Battery-powered tools:
  - TBM6PCR-LI, TBM62PCR-LI, TBM62CR-LI, TBM12PCR-LI, TBM14CR-LI, TBM15CR-LI
  - TBM8-7502, TBM8-750BSCR2, TBM8-750M-1[2]

[1] Up to 500 Navy
[2] Up to 750 kcmil.
[3] Up to 900 kcmil
Note: TBM8 series dieless tools are no longer available for sale; however, existing TBM8 series tools in the field are applicable and certified with these products.

Aluminum compression lugs

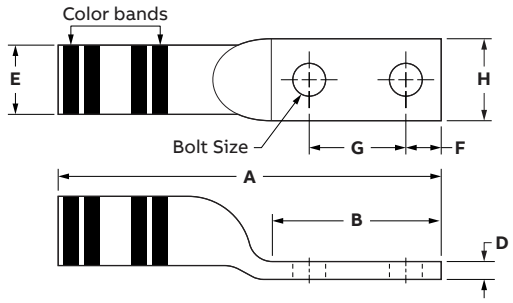
Two-hole narrow-tongue, long-barrel lugs

Aluminum lugs — narrow-tongue, long-barrel, two-hole
350 kcmil to 750 kcmil, range taking

Product selection and dimensions

			Dimensions (inches)								
Cat. no.	Cable size (AWG)	Bolt size	A ±0.062	B ±0.031	D Approx.	E Nom.	F ±0.031	G ±0.031	H ±0.031	Die code	Die color
60273N	350–500	½	6.88	3.14	0.40	1.28	0.75	1.75	1.48	99	Pink
60278N	500–750	½	7.13	3.08	0.50	1.50	0.66	1.75	1.48	115	Yellow

Note: Product must be installed in accordance with applicable national and local electrical codes.

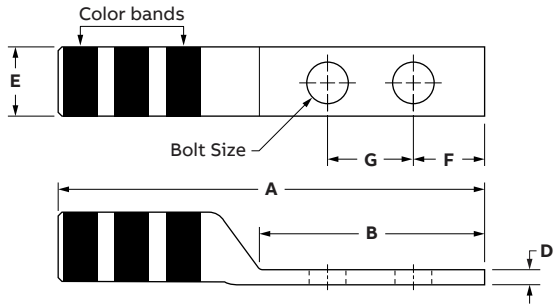


Aluminum lugs — narrow-tongue, long-barrel, two-hole
2/0 to 1000 kcmil

Product selection and dimensions

			Dimensions (inches)							
Cat. no.	Cable size (AWG)	Bolt size	A ±0.062	B ±0.031	D Approx.	E Nom.	F ±0.031	G ±0.031	Die code	Die color
60238NT	2/0	½	5.03	2.81	0.28	0.70	0.5	1.75	54	Olive
60250NT	4/0	½	5.31	2.81	0.34	0.86	0.5	1.75	66	White
60256NT	250	½	5.61	2.81	0.44	0.92	0.5	1.75	71	Red
60267NT	350	½	6.25	3.25	0.37	1.09	0.63	1.75	87	Brown
60269NT	400	½	6.95	3.25	0.42	1.18	0.75	1.75	94	Green
60273NT	500	½	7.01	3.25	0.40	1.28	0.75	1.75	99	Pink
60275NT	600	½	7.13	3.25	0.40	1.36	0.75	1.75	106	Black
60278NT	750	½	7.40	3.25	0.42	1.50	0.75	1.75	115	Yellow
60284NT	1000	½	8.03	3.00	0.50	1.77	0.75	1.75	140	–

Note: Product must be installed in accordance with applicable national and local electrical codes.



Aluminum compression lugs

One-hole aluminum compact-size equipment lug



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

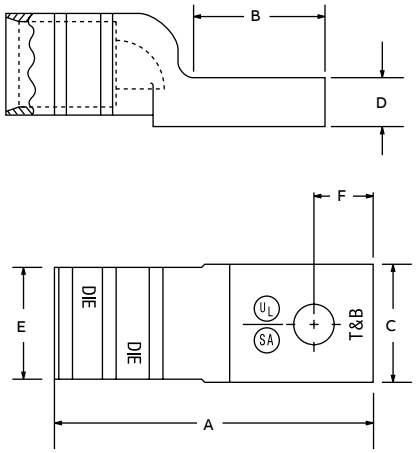
- For 90 °C, 600 V applications
- For use with aluminum cables only
- Can be directly substituted for equipment mechanical lugs in most applications
- Only seven dies handle all 14 lug sizes
- Factory-filled with joint compound
- Electro tin plated
- Supplied with neoprene insulating covers

One-hole aluminum compact-size equipment lug

Cat. no.	Aluminum cable size (AWG or kcmil)	Aluminum range taking* (AWG or kcmil)	Bolt hole (in.)	Dimensions (in.) A	B	C	D	E	F
61102	#8	–	¼	1.33	0.54	0.50	0.14	0.37	0.25
61107	#6	–	¼	1.33	0.54	0.50	0.14	0.37	0.25
61112	#4	–	¼	1.33	0.54	0.50	0.14	0.37	0.25
61116	#2	–	¼	1.75	0.68	0.55	0.20	0.48	0.25
61122	#1	–	¼	1.75	0.68	0.55	0.20	0.48	0.25
61130	1/0	#8–1/0	⅜	2.00	0.83	0.64	0.20	0.57	0.38
61142	3/0	–	⅜	2.50	1.08	0.78	0.23	0.70	0.38
61148	4/0	2/0–4/0	⅜	2.50	1.08	0.78	0.23	0.70	0.38
61156	250	–	½	2.50	1.23	0.98	0.25	0.85	0.50
61162	300	#4–300	½	2.50	1.23	0.98	0.25	0.85	0.50
61165	350	250–350	½	3.25	1.23	1.20	0.41	1.04	0.56
61171	500	2/0–500	½	3.25	1.23	1.20	0.41	1.04	0.56
61178	750	500–750	⅝	3.75	1.54	1.49	0.41	1.33	0.81



Diagrams



600 V, 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 – see pages 91-115.
Die selector chart – see pages 116-121.

Aluminum compression lugs

Transformer lug kits



Everything needed to connect to a transformer in one convenient kit.

- For 90 °C, 600 V 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 lug kits

Transformer		Terminal lugs			Kit contents						
KVA sizes	Kit cat. no.	Al cable range* (AWG or kcmil)		Qty.	Nuts	Qty.	Bolts (in.)	Qty.	Washers (in.)	Qty.	Std. pkg.
Compression											
15-37½ 1Ø 15-45 3Ø	611CL-SK1	#8–1/O Al	Color-Keyed® compression equipment lugs	8	¼-20	8	¼-20 x 1	8	Flat ¼	8	1
		#4–300		4	–	–	–	–	Spring ¼	8	–
50-75 1Ø 75-112½ 3Ø	611CL-SK2	#4–300 Al		12	¼-20	16	¼-20 x 1	8	Flat ¼	16	1
		–		–	–	–	¼-20 x 2	8	Spring ¼	16	–
100-167 1Ø 150-300 3Ø	611CL-SK3	#4–300 Al		3	¼-20	3	¼-20 x ¾	3	Flat ¼	3	–
		–		–	–	–	–	–	Spring ¼	3	1
		2/0–500 Al		22	⅜-16	16	⅜-16 x 2	16	Flat ⅜	16	–
		–		–	–	–	–	–	Spring ⅜	16	–
100-167 1Ø 150-300 3Ø	611CL-SK3-500	#4–300 Al		3	¼-20	3	¼-20 x 1	3	Flat ¼	3	–
		–		–	–	–	–	–	Spring ¼	3	1
		2/0–500 Al		22	⅜-16	16	⅜-16 x 2	16	Flat ⅜	16	–
		–		–	–	–	–	–	Spring ⅜	16	–
500 3Ø	611CL-SK4	#500–750 Al		29	⅜-16	18	⅜-16 x 2	18	Flat ⅜	18	1
		–		–	–	–	–	–	Spring ⅜	18	–
Mechanical											
15-37½ 1Ø 15-45 3Ø	622ML-SK1	#14–2	Ready lugs mechanical lugs**	8	¼-20	8	¼-20 x ¾	8	Flat ¼	8	1
		#6–250		4	–	–	–	–	Spring ¼	8	
50-75 1Ø 75-112½ 3Ø	622ML-SK2	#6–250		12	¼-20	16	¼-20 x ¼	8	Flat ¼	16	1
		–		–	–	–	¼-20 x 1¾	8	Spring ¼	16	
100-167 1Ø 150-300 3Ø	622ML-SK3	#6–250		3	¼-20	3	¼-20 x ¾	3	Flat ¼	3	–
		–		–	–	–	–	–	Spring ¼	3	1
		350–800		22	⅜-16	16	⅜-16 x 2	16	Flat ⅜	16	–
		–		–	–	–	–	–	Spring ⅜	16	–
500 3Ø	622ML-SK4	350–800		29	⅜-16	18	⅜-16 x 2	18	Flat ⅜	18	1
		–		–	–	–	–	–	Spring ⅜	18	–

* To ensure proper range-taking compression on Color-Keyed equipment lugs, use Smart® tool (Cat. no. TBM8-750/TBM8-750M-1). *
* Largest cable in lug can be applied with standard hex or hand tool.

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Aluminum compression splices

Two-way splice connectors



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

- For 90 °C, 600 V to 35 kV 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

Two-way splice connectors

Cat. no.	Conductor code (AWG or kcmil)	Dimensions (in.) A	Dimensions (in.) E	Die code	Color code
60500	#10 Str.	1.00	0.27	21	Red
60501	#8 Str.	1.19	0.28	24	Blue
60507	#6 Str.	1.63	0.35	29	Gray
60512	#4 Str.	1.81	0.46	37	Green
60516	#2 Str./#3 Str.	1.81	0.51	42	Pink
60522	#1 Str.	2.38	0.56	45	Gold
60530	1/0	2.38	0.62	50	Tan
60536	2/0	2.50	0.70	54	Olive
60542	3/0	2.81	0.77	60	Ruby
60548	4/0	3.66	0.86	66	White
60554	250	3.91	0.92	71	Red
60560	300	3.97	0.99	76	Blue
60565	350	4.97	1.09	87	Brown
60568	400	4.97	1.18	94	Green
60571	500	4.97	1.28	99	Pink
60574	600	5.22	1.36	106	Black
60576	700	5.44	1.44	112	Purple
60578	750/900 compact	5.69	1.50	115	Yellow
60584	1000	6.69	1.77	140	–

Aluminum compression splices

Aluminum reducing connectors





Splice aluminum conductors to copper conductors of equal ampacities.

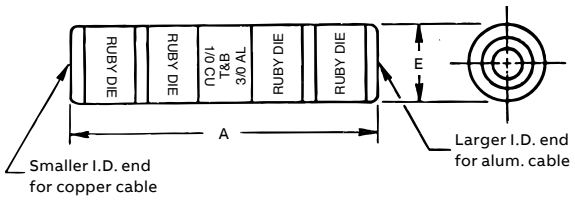
- For 90 °C, 600 V applications
- Filled with high-temperature oxide-inhibiting compound
- Designed for the right combination of equivalent sizes (Example: 4/0 AWG aluminum to 2/0 AWG copper)
- Selection table gives aluminum/copper equivalents for all sizes

Material – High-conductivity wrought aluminum
Finish – Electro tin plate

Aluminum reducing connectors

Cat. no.	Cable size (AWG or kcmil) Aluminum	Copper	Dimensions (in.) A	E	Die code	Color key
60905	#8	#10	13/16	9/32	24	Blue
60910	#6	#8	1 5/8	11/32	29	Gray
60915	#4	#6	1 13/16	7/16	37	Green
60925	#1	#3	2 3/8	17/32	45	Gold
60930	1/0	#2	2 3/8	5/8	50	Tan
60935	2/0	#1	2 1/2	11/16	54	Olive
60940	3/0	1/0	2 13/16	3/4	60	Ruby
60945	4/0	2/0	3 3/4	7/8	66H	White
60950	250	3/0	4	15/16	71H	Red
60955	300	4/0	4 1/16	1	76H	Blue
60960	350	4/0	5 1/16	3/32	87H	Brown
60965	400	250	5 1/16	1 7/32	94H	Green
60970	500	350	5 1/16	1 5/16	99H	Pink
60975	600	400	5 5/16	1 11/32	106H	Black
60980	700	500	5 9/16	1 7/16	112H	Purple
60985	750	500	5 13/16	1 1/2	115H	Yellow

Diagram



Selection table gives aluminum/copper equivalents for all sizes.
Connectors are filled with a high-temperature oxide-inhibiting compound.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

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

Aluminum washers

Belleville compression washers



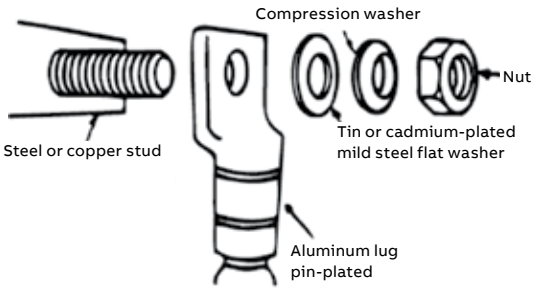
For tight, secure bus-bar connections.

- 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.

Belleville compression washers

		Dimensions (in.)			
		Flat washer		Belleville washer	
Cat. no.	Bolt size (in.)	A	B	C	D
Belleville compression washers plus flat washer					
60800B	1/4	3/4	0.067	11/16	0.055
60801B	5/16	7/8	0.074	13/16	0.065
60802B	3/8	1	0.083	15/16	0.075
60803B	1/2	1 1/4	0.109	13/16	0.095
Belleville compression washer only					
60800	1/4	–	–	11/16	0.055
60801	5/16	–	–	13/16	0.065
60802	3/8	–	–	15/16	0.075
60803	1/2	–	–	13/16	0.095
60804	5/8	–	–	1 1/2	0.110

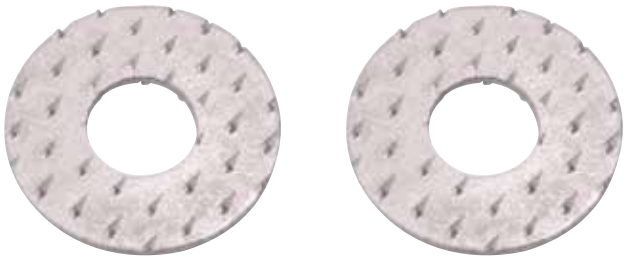
Diagram



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.

Aluminum washers

Dragon Tooth® transition washers



Quick, dependable and versatile.

- 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

Dragon Tooth transition 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

Bi-metal pin connectors

Bi-Pin® bi-metal pin connectors with insulating covers



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

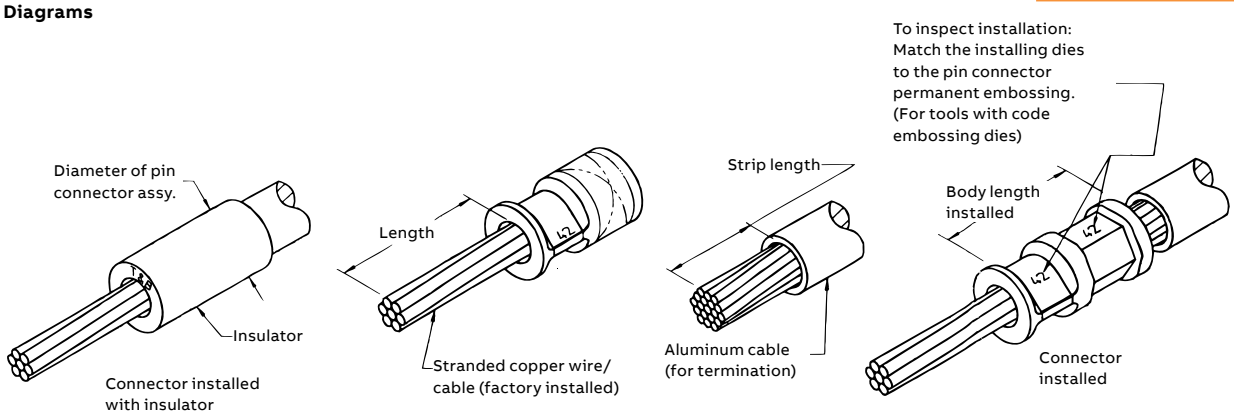
- For 90 °C, 600 V applications
- Upgrades connection by eliminating cold flow and oxidation of aluminum
- Reduces oversized aluminum cable
- Enables termination of aluminum cable into a copper-only lug
- Barrel prefilled with joint compound

Material – Copper wire/aluminum body
Finish – Electro-tin plate
Insulator – Neoprene (600 V dielectric rating)

Bi-Pin bi-metal pin connectors with insulating covers

Cat. no.	Cable size (AWG or kcmil) Aluminum	Cable size (AWG or kcmil) Copper wire size	Body length after installing (in.)	Die code no.	Color key
61905A	#8	#10	1 7/8	24	Blue
61910A	#6	#8	1 7/8	24	
61915A	#4	#6	1 9/16	45	Gold
61920A	#2	#4	1 9/16	45	
61925A	#1	#3	1 5/8	50	Orange
61930A	1/0	#2	1 5/8	50	
61935	2/0	#1	1 15/16	50	
61940	3/0	1/0	2 1/8	60	Ruby
61945	4/0	2/0	2 1/8	60	
61950	250	3/0	2 3/16	66	White
61955	300	4/0	2 1/2	71H	Red
61960	350	250	2 1/2	71H	
61963	400	250	3 3/4	87H	Brown
61965	500	350	3 3/4	87H	
61970	600	400	3 3/4	107H	Orange
61975	700–750	500	3 3/4	107H	

Diagrams



Hand tools – Smart® tool
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper C-tap connectors

C-Taps for 600 V applications





Positive, all-around compression with low resistance and high pull-out values.
Material – High-conductivity wrought copper
Finish – Plain
Ideal for pigtailing, two-way splicing or tapping to an unbroken continuous main

- Heavy reinforcing ribs help locate compression dies and strengthen compressed joint

C-Taps for 600 V applications

		Dimensions (in)			
Cat. no.	Fig. No.	L	H	E	Color key
54705	1	5/16	5/16	7/64	Red
54710	1	9/16	7/16	9/64	Blue
54715	1	9/16	5/8	11/64	Gray
54720	2	1 5/32	11/16	7/32	Brown
54725	2	1 5/32	13/16	1/4	Green
54730	2	1 5/32	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

Diagrams

Figure 1

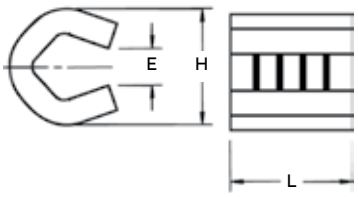


Figure 2 — "E" represents gap in side

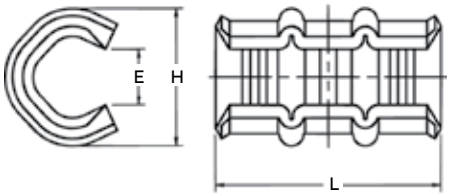
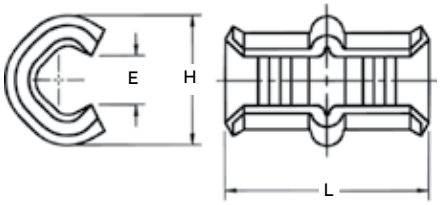


Figure 3



UL® approved for direct burial.
For covers, see page 57.
Taps can be supplied tin-plated. Add suffix "TP" to any catalog number (i.e., 54725TP).

Typical cable combinations

	Branch (AWG)							
Main (AWG)	#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	5i740	54745	54750	54750
2/0 Str.	54745	54745	54745	54745	54745	54750	54750	–
3/0 Str.	54750	54750	54750	54750	54750	54750	–	–

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper C-tap connectors

C-Taps – large size for 600 V applications

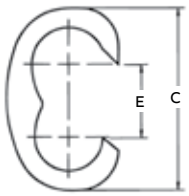


Easy to work with in tight spaces.
Material – High-conductivity wrought copper
Finish – Plain

- 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

C-Taps – large size for 600 V applications

Diagram





Cat. no.	Wire size (AWG or kcmil) Main	Branch	Dimensions (in.) C	D	E	Installing die Tool	Cat. no.	Die code	No. of crimps	Color key
54755	#1	#1	1 15/16	3/4	17/32	TBM14M	15512	76	1	Blue
	1/0	1/0–#2				TBM15I	15512	76		
	2/0	2/0–#4				TBM12	TBM12D-4	76		
	3/0	1/0–#6				13100A	15512	76		
	4/0	#1–#8								
54760	2/0	2/0–#1	1 7/16	3/4	19/32	TBM14M		87H	2	Brown
	3/0	3/0–#3				TBM15I		87H		
	4/0	4/0–#4				TBM12	TBM12D-3	87H		
	250	#1–#8				13100A		87H		
54765	2/0	2/0–#1	1 11/16	1	41/64	TBM14M		99H	2	Pink
	3/0	3/0–#2				TBM15I		99H		
	4/0	4/0–#4				TBM12	TBM12D-2	99H		
	250	3/0–#6				13100A		99H		
	300	2/0–#8								
54770	4/0	4/0–2/0	1 11/16	1	11/16	TBM14M	15515	106H	2	Black
	250	250–#1				TBM15I	15515	106H		
	300	4/0–#4				TBM12	TBM12D-2	106H		
	350	3/0–#6				13100A	15515	106H		
54775**	250	250	1 7/8	1 1/4	13/16				2	Yellow
	300	300–3/0				TBM14M		115H		
	350	350–1/0				TBM15I		115H		
	400	300–#2				TBM12	TBM12D-1	115H		
	450	250–#4				13100A		115H		
	500	250–#6								
54780	350	350–4/0	2 3/16	1 1/4	53/64	TBM15I	15603	125H	2	–
	400	400–2/0								
	450	450–#1								
	500	500–#2								
54785	750	4/0–#6	2 1/8	2	1	TBM15I	15603	125H	3	
54790	750	750–4/0	2 11/16	2	1 5/16					

UL® approved for direct burial.
For covers, see page 57.
Taps can be supplied tin-plated. Add suffix "TP" to any catalog number (i.e., 54725TP).
** #6 AWG branch must be doubled.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Copper H-tap connectors

Copper H-taps – 600 V applications





Copper H-taps – 600 V applications

Cat. no.	Fig. no.	Color code	Conductor size code (flex cable) (AWG or kcmil) Main	Branch 1	Branch 2	Branch 3	Crimping information Hydraulic head	Installing die	# of crimps	Color code	Die code	Strip length (in.)	Insulating covers
CHT750350-1F	1	White	(750–500) (750) Flex only	(750–500) (350) Flex only	–	–	TBM15I	15620CHF	1	White	F	1⅛	
CHT750350-2	2	Yellow	750–500 (550–500)	750–500 (550–350)	–	–	TBM15I	15620CH	1	Yellow	Z	1⅜	HTC500
CHT50040-4	2	Brown	500–250 (350–4/0)	500–4/0 (350–4/0)	–	–	TBM15I	15612CH	2	Brown	N	1⅛	
50010-5	3		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		N	1⅛	
CHTCHT2502-6	2	Purple	250–2 (4/0–2)	250–2 (4/0–2)	–	–	TBM15I• TBM14M	15CA80RCH	1	Purple	80R	13⁄16	HTC40
CHT25014-7	4		250–2 (4/0–2)	2–6 Str./Sol. (2–8)	8–14 (8–14)	–	TBM15I• TBM14M	15CA80RCH	1		80R	1⅛	
CHT250214-8	5		250–2 (4/0–2)	8–14 (8–14)	8–14 (8–14)	–	TBM15I• TBM14M	15CA80RCH	1		80R	1⅛	
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	HTC2S
CHT75040-11	8	Yellow	750 Str. (750–500)	350–4/0 Str. Cu. & Flex	–	–	TBM15I	15620CH	1	Yellow	Z	1⅛	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 – see pages 91-115.
Die selector chart – see pages 116-121.

Copper H-tap connectors

Copper H-taps – 600 V applications (continued)

Material – High conductivity extruded copper
Finish – Electro tin plate

Copper H-taps – 600 V applications

Cat. no.	Fig. no.	Dimensions (in.) H	W	L	A	D	D1	D2	D3	Strip length (in.)	Insulating covers
CHT750350-1F	1	3.46	1.66	1.10	1.73	1.23	–	–	–	1 1/8	HTC1000
CHT750350-2	2	3.24	1.50	1.25	1.62	1.02	–	–	–	1 3/8	HTC500
CHT75010-3	9	3.13	1.50	1.00	1.54	1.00	0.40	0.35	0.41	1 1/8	
CHT75040-11	8	3.19	(1) 1.65	1.00	(1) 1.61	(1) 1.24	–	–	–	1 1/8	
	–	–	–	(2) 1.05	–	(2) 1.29	(2) 0.80	–	–	–	
CHT50040-4	2	2.64	1.18	1.00	1.32	0.80	–	–	–	1 1/8	
CHT50010-5	3	2.28	1.30	1.00	1.20	0.80	0.67	0.19	0.43	1 1/8	
CHT2502-6	2	1.99	.90	.66	1.00	0.62	–	–	–	13/16	HTC40
CHT25014-7	4	1.63	0.90	0.90	0.96	0.52	0.35	0.19	–	1 1/8	
CHT250214-8	5	1.63	0.90	0.90	0.96	0.62	0.19	0.19	–	1 1/8	
CHT214-9	6	1.35	0.60	0.75	0.50	0.33	0.19	0.19	–	7/8	
CHT814-10	7	0.62	0.60	0.37	0.25	0.16	–	–	–	1/2	HTC2S

Diagrams

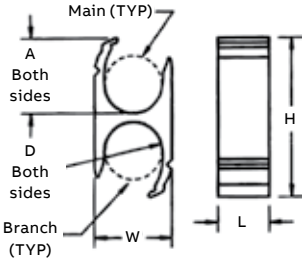


Figure 1

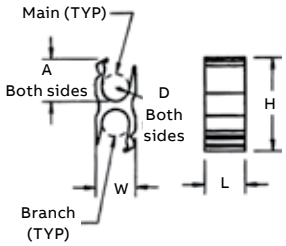


Figure 2

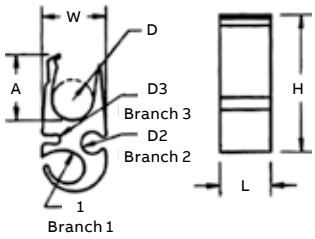


Figure 3

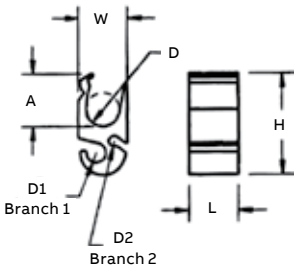


Figure 4

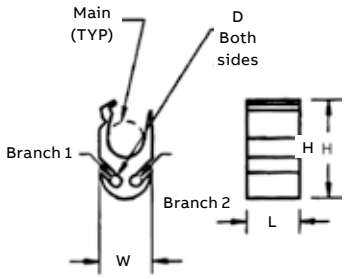


Figure 5

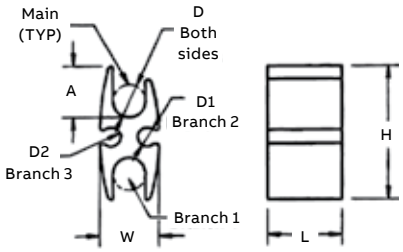


Figure 6

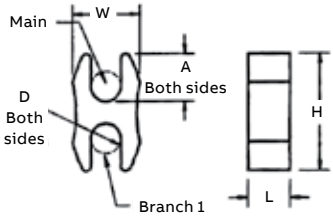


Figure 7

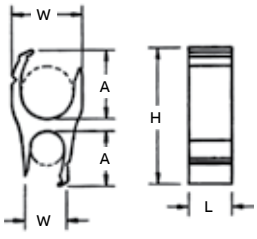


Figure 8

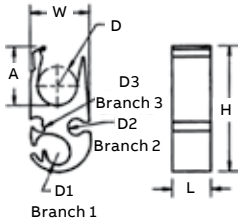


Figure 9

Aluminum H-tap connectors

Compression taps for 600 V, 90 ˚C applications



Exclusive FILLERLOK tab design.

Material – High-conductivity wrought aluminum

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

Compression taps for 600 V, 90 ˚C applications

Cat. no.	Combinations (AWG or kcmil) Main	Branch	Side tap	Length (in.)	Color key	Die code cat. no. TBM6 TBM6S TBM60RS	Hydraulic TBM14M 13100A	TBM12 12-ton head	TBM151 15-ton head
63105†	#2–6	#8–14	–	¾	Orange	13474 upper 13477 lower	–	TBM12D-4	–
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		–	15502	TBM12D-H	15502
63160	500–4/0	4/0–#2	#2–6	2¾	Red	–	–	–	15612
63169	750–4/0	750–4/0	–	3	Black	–	–	–	15620
63170	1000–500	1000–1/0	–	6		–	–	–	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 – see pages 91-115.

Die selector chart – see pages 116-121.

Interlocking insulating covers for compression taps

Soft shell H-Tap/C-Tap covers

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

02 Clear, polycarbonate (UL94V-0) version available

03 Easy latch mechanism

Improved covers for taps.
ABB offers an enhanced design for one-piece covers of H-Tap and C-Tap connectors. The new design is more size-efficient and includes an easy-to-use latch mechanism. The new covers also contain flash barriers to help protect against electrical flash overs. The covers are molded from high-impact polypropylene (UL94V-1) and are UL® listed, CSA certified to 600 V applications at 105 °C.

Color-Keyed soft shell covers include these features:

- **Size-efficient design**
  Requires less 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.



01



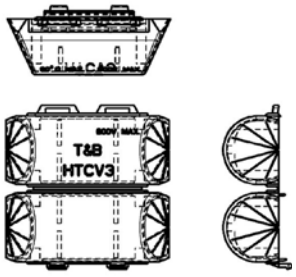
02



03

Cat. no.	For H-taps	For C-taps	Dimensions (in.) A	B	C	Pkg. qty.
HTCV1	CHT814-10	54705, 54710, 54715	1¾	⅞	9⁄16	5
HTCV2	CHT214-9, CHT250214-8, CHT25014-7, CHT2502-6	54770, 54775, 54780	3⅜	1⅛	1	5

Diagram



Interlocking insulating covers for compression taps

H-Tap insulating covers (soft cover)





Quick and easy insulation for H-type compression taps.

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

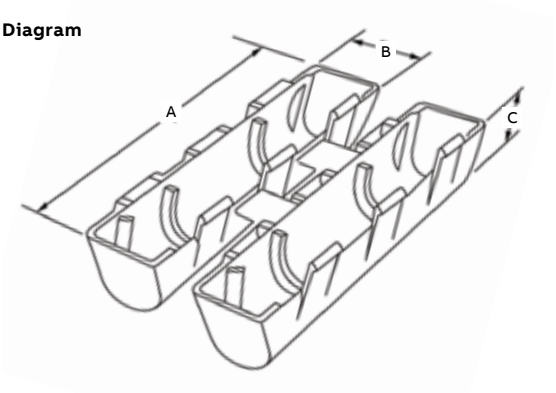
Specifications

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

H-Tap insulating covers (soft cover)

	Wire range (AWG or kcmil)			Use to	Dimensions (in.)				
Cat. no.	Max.	Min.	Al H-taps	insulate	A	B	C	"A" dim.	"B" dim.
HT20C	2/0	#6	63110/63115 63125/63120	–	4½	1¼	1⅛	–	–
HT40C	4/0	#6	63140 63148	–	5 39/64	1 13/32	1 3/16	–	–
HT600C	500	#2	63160	63169	6 13/16	2⅛	1 39/64	–	–
HT1000C	1000 to 500	250 to 1/0	63180	–	–	–	–	7.250 (184.15 mm)	2.330 +.060
HT1000C-L	1000 to 500	250 to 250	63170	–	–	–	–	10.374 (263.40 mm)	2.330 +.060

Diagram



(C) Height – typical both halves

Interlocking insulating covers for compression taps

H-Tap insulating covers (hard covers)





01

01 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 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 to guard against impact, inner seal to keep 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

For H-Tap applications

Cat. no.	Al H-tap	Cu H-tap
HTC40	63110	CHT214-9
	63118	CHT250214-8
	63125	CHT2514-7
	63140	CHT2502-6
HTC1000	63180/63169	CHT750350-1F

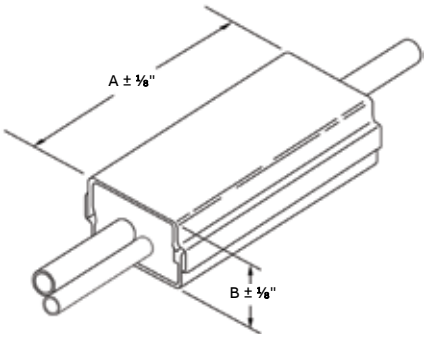
For C-Tap applications

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
HTC500	54765	Pink
	54770	Black
	54775	Yellow
	54780	White
	54785	–
HTC1000	54790	–

	Dimensions (in.)		
Cat. no.	A (length)	B (height)	C (width)
HTC2S	2	1 1/8	1 7/16
HTC2	3 1/2	1 1/8	1 7/16
HTC40	4 1/4	1 9/16	2
HTC40L2	5 3/4	1 9/16	2
HTC500	6	1 3/4	2 3/4
HTC1000	7	2 3/8	3 7/8
HTC1000L	10	2 3/8	3 7/8

Interlocking insulating covers for "H" type compression taps. For use in splice boxes, indoors or in tray indoors. Place the H-tap in the cover. Snap the cover closed. Consult factory for flame-retardant version. Technical data: HTC2 and HTC2S use insulation wrap instead of end cushions for inner seal. Connector cat. nos. 54755 Through 54790 and 63148 through 63180 require hydraulic crimping tools. Refer to instruction sheets. Outer hard shell covers
– High-impact black thermoplastic (noryl), flammability class UL® 94 V-1 inner seal
– Black neoprene sponge soft closed cell, oxygen index 28% ul 94 hbf
Temperature rating – 90 °C maximum
Voltage rating – 600 V maximum
Uses insulation wrap instead of end cushions for inner seal.
Note: insulation covers are not reusable.

Dimensions



Wire joints for copper conductor

Compression wire joints for copper conductor



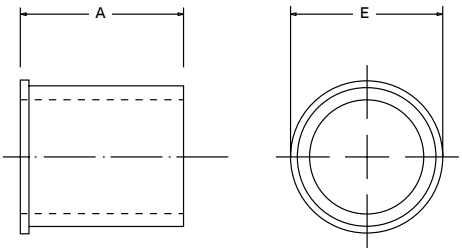
All-around compression ensures high conductivity, low resistance and high pull-out values exceeding UL® requirements.

- 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

Compression wire joints for copper conductor

	Circular mil area		Cable combination (AWG)		Connector range Dimensions (in.)			Installing tools TBM25S/21E	TBM8/8S	TBM5/5S	TBM6 & TBM6S	
Cat. no.	Min.	Max.	Min.	Max.	A	E	Color code	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.	0.407	0.370	Blue	Included	–	–	13475	13477
54615	31,140	43,400	(3) #10 sol. or str.	(4) #10 sol. or str.	0.407	0.430	Gray	Included	13461	13454	13472	13476
54620	49,530	65,560	(3) #8 sol. or str.	(1) #4 w/(2) #10 sol. or str.	0.417	0.475	Brown	Included	–	–	13474	–
54625-TB	66,040	87,130	(4) #8 sol. or str.	(1) #2 str w/(2) #12 sol. or str.	0.479	0.545	Green	–	–	–	–	–
54630	83,480	99,990	(2) #4 sol. or str.	(2) #4 w/(1) #10 sol. or str.	0.479	0.585	Pink	–	13462	13455	13475	13477
54635	99,060	124,220	(6) #8 str.	(2) #4 w/(2) #8 sol. or str.	0.762	0.620	Black	–	–	–	13474	–
54640	125,220	166,120	(3) #4 sol. or str.	(3) #4 w/(2) #10 sol. or str.	0.762	0.695	Orange	–	–	–	–	–
54645-TB	166,960	193,630	(4) #4 sol. or str.	(2) #1 w/(2) #10 sol. or str.	0.824	0.770	Purple	–	13463	13456	13475	–
54650	189,190	244,020	(3) #2 str.	(2) #1/0 w/(2) #8 str.	0.887	0.830	Yellow	–	–	–	13473	13476

Diagram



Hand tools only.
UL Listed E9809 – code stranded.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Cast copper bus taps

Heavy-duty bus bar taps – Straight barrel for 600 V to 35 kV applications



Clamps onto bus bar – No drilling required.

- For bus bars up to ¼" thick, 3–6" wide and code copper cable
- Takes up less than 1¼" 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

Heavy-duty bus bar taps – Straight barrel for 600 V to 35 kV applications

	Wire flex (AWG or kcmil)				Dimensions (in.)			Die
Cat. no.	Code	Flex	Fig. no.	Busbar width (in.)	A	B	C	Code
251-31446-1	1/0	225/24	1	3	6 1/8	2 9/32	3 1/2	66H
251-31446-7			1	4	7 1/8	2 9/32	4 1/2	66H
251-31446-13			2	5 or 6	9 1/8	2 9/32	6 3/8	66H
251-31446-8	2/0	1/0	1	4	7 1/8	2 9/32	4 1/2	66H
251-31446-14		275/24	2	5 or 6	9 1/8	2 9/32	6 3/8	66H
251-31446-3	350	–	1	3	6 5/8	2 9/16	3 1/2	99H
251-31446-10	–	–	1	4	7 5/8	2 9/16	4 1/2	99H
251-31446-17	600	–	2	5 or 6	9 3/4	2 3/4	6 3/8	112H
251-31446-21	700	–	1	6	9 3/4	2 3/4	6 7/16	112H
251-31446-12	–	–	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

Diagrams

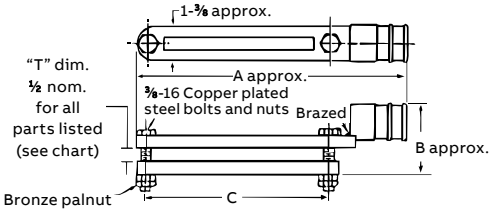


Figure 1

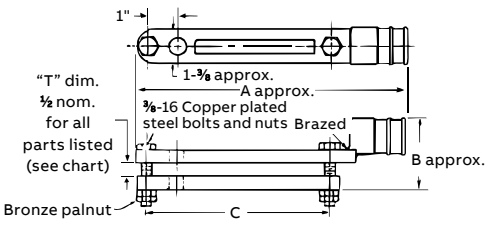


Figure 2



Double cable—Use AD suffix

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 – see pages 91-115. Die selector chart – see pages 116-121.

Motor lead disconnects

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

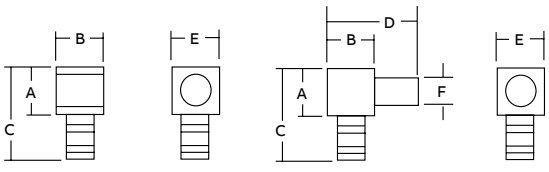


- Complete line of motor lead disconnects for 600 V and 5 kV applications, covering wire range from #16 AWG through 500 kcmil
- Fast, snap-together assembly offers maximum labor savings
- No need for nuts, bolts and washers or insulating tape – simply slide on reusable boot
- Total assembly fits into tight motor housings
- Quick disconnect – no knife cutting of melted tape, limiting installer exposure, helping to eliminate the risk of accidental cutting of wire insulation and resulting motor downtime
- 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 lead disconnects – One line to one load (2 wire)

Cat. no.						Dimensions (in.)						
Female disconnect	Male disconnect	Wire size (AWG or kcmil)	Body size	Color code	Boot insulation	A	B	C	D	E	F	Strip length (in.)
MD1614F-0	MD1614M-0	#16–#14	0	Blue	MDBOOT-0	0.25	0.25	0.63	0.52	0.25	0.125	3/8
MD1614F-1	MD1614M-1	#16–#14	1		MDBOOT-1	0.38	0.38	0.78	0.75	0.38	0.250	3/8
MD1210F-1	MD1210M-1	#12–#10	1	Yellow	MDBOOT-1	0.38	0.38	0.78	0.75	0.38	0.250	3/8
MD1210F-2	MD1210M-2	#12–#10	2		MDBOOT-2	0.50	0.50	0.90	1.00	0.50	0.370	3/8
MD8F-1	MD8M-1	#8	1	Red	MDBOOT-1	0.38	0.38	0.82	0.75	0.38	0.250	7/16
MD8F-2	MD8M-2	#8	2		MDBOOT-2	0.50	0.50	0.95	1.00	0.50	0.370	7/16
MD6F-1	MD6M-1	#6	1	Blue	MDBOOT-1	0.38	0.38	0.88	0.75	0.38	0.250	1/2
MD6F-2	MD6M-2	#6	2		MDBOOT-2	0.50	0.50	1.02	1.00	0.50	0.370	1/2
MD4F-2	MD4M-2	#4	2	Gray	MDBOOT-2	0.50	0.50	1.06	1.00	0.50	0.370	1/2
MD2F-2	MD2M-2	#2	2	Brown	MDBOOT-2	0.50	0.50	1.09	1.00	0.50	0.370	17/32
MD2F-3	MD2M-3	#2	3		MDBOOT-3	0.88	0.88	1.46	1.75	0.88	0.500	17/32
MD1F-2	MD1M-2	#1	2	Green	MDBOOT-2	0.50	0.50	1.23	1.00	0.50	0.370	9/16
MD1F-3	MD1M-3	#1	3		MDBOOT-3	0.88	0.88	1.56	1.75	0.88	0.500	9/16
MD10F-3	MD10M-3	1/0	3	Pink	MDBOOT-3	0.88	0.88	1.56	1.75	0.88	0.500	9/16
MD20F-3	MD20M-3	2/0	3	Black	MDBOOT-3	0.88	0.88	1.59	1.75	0.88	0.500	5/8
MD30F-3	MD30M-3	3/0	3	Orange	MDBOOT-3	0.88	0.88	1.71	1.75	0.88	0.500	1 1/16
MD40F-3	MD40M-3	4/0	3	Purple	MDBOOT-3	0.88	0.88	1.81	1.75	0.88	0.500	3/4
MD40F-4	MD40M-4	4/0	4		MDBOOT-4	1.25	1.25	2.89	2.69	1.25	0.813	–
MD250F-4	MD250M-4	250	4	Yellow	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	0.813	–
MD350F-4	MD350M-4	350	4	Red	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	0.813	–
MD500F-4	MD500M-4	500	4	Brown	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	0.813	–

Diagrams



Female disconnect Male disconnect

Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Motor lead disconnects

One line to one load (2 wire) (continued)



600 V version



5 kV version

Quick, easy installation!

1) Choose appropriate Color-Keyed disconnect for conductor size to be terminated. Note color of bands on disconnect barrel.
2) Select proper installing die by matching die color to disconnect barrel color bands.
3) Install die in ABB 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.

Material – High-conductivity cast copper
Plating – Tin
Insulator – Thermoplastic elastomer

Motor lead disconnects – One line to one load (2 wire)

Cat. no.			Installing tools						
				TBM6, TBM6S		TBM5, TBM5S	TBM8, TBM8S	Hydraulic tools	
Female disconnect	Male disconnect	WT112M WT111M WT2000 ERG4002	TBM45S	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	
MD6F-1	MD6M-1	–	X	13475	13477	13454	13461	24	Blue
MD6F-2	MD6M-2	–	X	13475	13477	13454	13461	24	
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	
MD1F-2	MD1M-2	–	–	13474	13477	13455	13462	37	Green
MD1F-3	MD1M-3	–	–	13474	13477	13455	13462	37	
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	
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: 600 V, 90 °C. Tooling – see pages 91-115. Die selector chart – see pages 116-121.

Motor lead disconnects

One line to two load (3 wire)



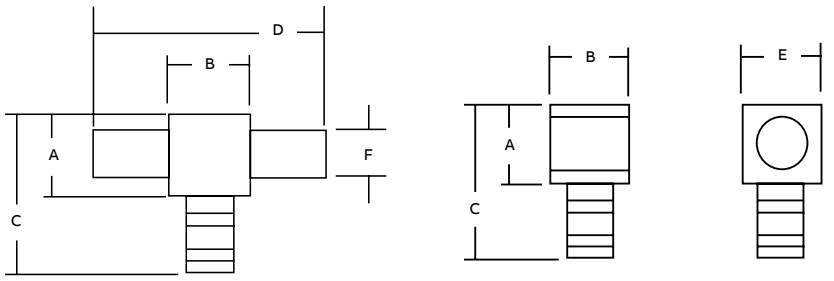
- KON-TOUR™ louvered contact bands
- Color coded to match installing dies

Material – High-conductivity wrought copper
Finish – Electro-tin plate

Motor lead disconnects – One line to two load (3 wire)

Cat. no.						Dimensions (in.)						
Female disconnect	Male disconnect	Wire size (AWG)	Body size	Color code	Boot insulation	A	B	C	D	E	F	Strip length (in.)
MD1614F-0	M2D1614M-0	#16–#14	0	Blue	MDBOOT-1	0.250	0.250	0.63	0.77	0.25	0.12	3/8
MD1210F-1	M2D1210M-1	#12–#10	1	Yellow	M2DBOOT-1	0.380	0.380	0.780	0.750	0.380	0.25	3/8
MD1210F-2	M2D1210M-2	#12–#10	2		M2DBOOT-2	0.500	0.500	0.900	1.500	0.500	0.37	3/8
MD8F-1	M2D8M-1	#8	1	Red	M2DBOOT-1	0.380	0.380	0.820	1.125	0.380	0.25	7/16
MD8F-2	M2D8M-2	#8	2		M2DBOOT-2	0.500	0.500	0.950	1.500	0.500	0.37	7/16
MD6F-1	M2D6M-1	#6	1	Blue	M2DBOOT-1	0.380	0.380	0.875	1.125	0.380	0.25	1/2
MD6F-2	M2D6M-2	#6	2		M2DBOOT-2	0.500	0.500	1.020	1.500	0.500	0.37	1/2
MD4F-2	M2D4M-2	#4	2	Gray	M2DBOOT-2	0.500	0.500	1.060	1.500	0.500	0.37	1/2
MD2F-2	M2D2M-2	#2	2	Brown	M2DBOOT-2	0.500	0.500	1.090	1.500	0.500	0.37	17/32
MD2F-3	M2D2M-3	#2	3		M2DBOOT-3	0.875	0.875	1.460	2.630	0.875	0.50	17/32
MD1F-2	M2D1M-2	#1	2	Green	M2DBOOT-2	0.50	0.50	1.230	1.500	0.500	0.37	9/16
MD1F-3	M2D1M-3	#1	3		M2DBOOT-3	0.875	0.875	1.560	2.630	0.875	0.50	9/16
MD10F-3	M2D10M-3	1/0	3	Pink	M2DBOOT-3	0.875	0.875	1.560	2.630	0.875	0.50	9/16
MD20F-3	M2D20M-3	2/0	3	Black	M2DBOOT-3	0.875	0.875	1.590	2.630	0.875	0.50	5/8
MD30F-3	M2D30M-3	3/0	3	Orange	M2DBOOT-3	0.875	0.875	1.710	2.630	0.875	0.50	11/16
MD40F-3	M2D40M-3	4/0	3	Purple	M2DBOOT-3	0.875	0.875	1.810	2.630	0.875	0.50	3/4

Diagrams



Operating range: 600 V max., 1000 V 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 – see pages 91-115.
Die selector chart – see pages 116-121.

Motor lead disconnects

One line to two load (3 wire) (continued)



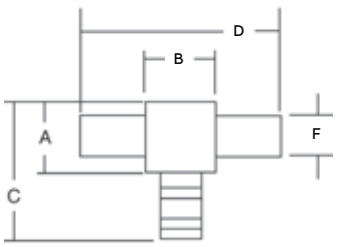
- KON-TOUR™ louvered contact bands
- Color coded to match installing dies

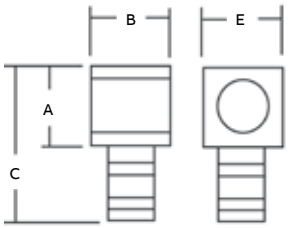
Material – High-conductivity wrought copper
Finish – Electro-tin plate

Motor lead disconnects – One line to two load (3 wire)

Cat. no.		WT112M WT111M ERG4002 WT2000	TBM25S	Installing tools					
					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	M2D1614M-0	Blue	–	–	–	–	–	–	–
MD1210F-1	M2D1210M-1		–	–	–	–	–	–	–
MD1210F-2	M2D1210M-2	Yellow	–	–	–	–	–	–	–
MD8F-1	M2D8M-1		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	
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	
MD1F-2	M2D1M-2	–	–	13474	13477	13455	13462	37	Green
MD1F-3	M2D1M-3	–	–	13474	13477	13455	13462	37	
MD10F-3	M2D10M-3	–	–	13475	13477	13455	13462	42	Pink
MD20F-3	M2D20M-3	–	–	13474	13477	13455	13462	45	
MD30F-3	M2D30M-3	–	–	13474	13477	13455	13462	50	Orange
MD40F-3	M2D40M-3	–	–	13475	13477	13456	13463	54	Purple

Diagrams





Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Motor lead disconnects

5 kV connector supplied with boot, pin, silicon gel
(two female connectors required)

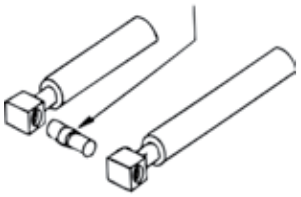


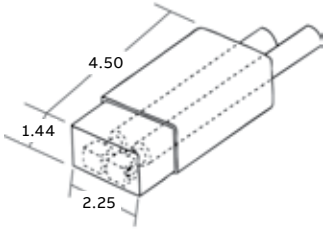
5 kV motor lead disconnects supplied with boot, pin, silicon gel (two female connectors required)

Cat. no.	Wire range (AWG)	Female disconnect Cat. no.	Color code	Dimensions (in.) L	W	H	Body size
5KVBOOT-2L	#8	MD8F-2	Red	4.50	2.25	1.44	2
5KVBOOT-2L	#6	MD6F-2	Blue	4.50	2.25	1.44	2
5KVBOOT-2L	#4	MD4F-2	Gray	4.50	2.25	1.44	2
5KVBOOT-2L	#2	MD2F-2	Brown	4.50	2.25	1.44	2
5KVBOOT-2L	#1	MD1F-2	Green	4.50	2.25	1.44	2
5KVBOOT-3L	#2	MD2F-3	Brown	4.50	2.25	1.44	3
5KVBOOT-3L	#1	MD1F-3	Green	4.50	2.25	1.44	3
5KVBOOT-3L	1/0	MD10F-3	Pink	4.50	2.25	1.44	3
5KVBOOT-3L	2/0	MD20F-3	Black	4.50	2.25	1.44	3
5KVBOOT-3L	3/0	MD30F-3	Orange	4.50	2.25	1.44	3
5KVBOOT-3L	4/0	MD40F-3	Purple	4.50	2.25	1.44	3

Diagrams

Double male pin





Motor lead disconnects

Sealant



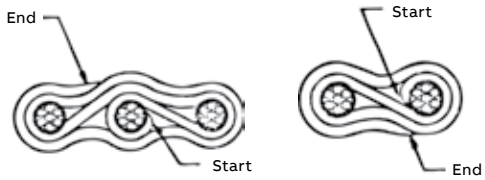
For easy, reliable sealing of motor disconnect boots.
Sealant should be used with ABB motor disconnect boots: MDBOOT-0, MDBOOT-1, MDBOOT-2 AND MDBOOT-3.
The cable should be clean and free of grease and other foreign substances.
Apply two layers around each cable at the same distance from the connector.
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 ⅛", length (std. Roll) 10', wrapped on release liner
- Environmental resistance: resists normal aging process
- Chemical resistance: resists acids, bases and alcohols
- Dielectric strength: 200 V/mil minimum
- Volume resistivity: 1013 ohms/cm
- Flame retardancy: pass VO vertical flame test

Sealant

Cat. no.	Description
MDBOOT-SEAL	Sealant

Diagrams



For watertight applications, contact technical services.
Tooling – see pages 91-115.
Die selector chart – see pages 116-121.

Connector kits

Connector kit for copper cables



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 (AWG)	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				

Connector kits

Carrying cases



MDKITL

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 Color-Keyed lugs, splices, taps or motor disconnects.
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.

Joint compound

Kopr-Shield® joint compound

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

- Unique, homogenized blend of pure, polished colloidal copper, rust and corrosion inhibitors
- Simultaneously helps protect, lubricate and enhance conductivity of mating surfaces
- Extremely adhesive compound flows smoothly into uneven contours and voids, helping ensure 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 scourge" buildup. ABB 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 enhance connectivity in all electrical installations. When the environment is hostile to electrical and mechanical connections, Kopr-Shield compound is a must!

Use Kopr-Shield compound for battery lugs and cables to:

- Prevent "green scourge" 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 arching and dissipation of coronas
- Lubricate for ease of operation



Kopr-Shield joint compound

Cat. no.	Description	Std. pkg.	Wt. lbs./C
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

Joint compound

ALUMA-SHIELD® aluminum joint compound



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

ALUMA-SHIELD aluminum joint compound

Cat. no.	Contains	Description
21059	1-pt. Squeeze bottle	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 8 kV and 90 °C.
NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.

Tools and dies

Blackburn® OD mechanical compression tools



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

- OD58 tool includes ⅝" fixed die in nose and can also accept other standard insert dies, such as O, D, 840, etc.
- ODB tools feature fixed O and D dies for versatility
- ODB tools also accept other standard MD6 insert dies
- Optional fiberglass handles provide 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

Blackburn OD mechanical compression tools

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
ODF1	Fixed o and d dies, fiberglass handles	21	6.0
ODF35	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
ODH1	Insulating head covers	–	0.40

Tools and dies

Type OD and U-type 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	11/16
BY29	19/32
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*	11/16 Yellow
BY31C*	5/16–1 Olive/Purple
BY32C*	Ruby
BY35C*	781 White
BY37C*	840 Red
BY28C*	17/32 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	–
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

TBM6PCR-LI, TBM62PCR-LI and TBM62CR-LI lithium-ion battery-powered compression tools

The ABB line of 6- to 15-ton compression and cutting tools is equipped with lithium-ion (Li) battery technology.

- Works with the common MAKITA‡ battery platform for ease of use with other tools
- 18 V MAKITA‡ battery offers lighter weight, longer run times, no memory effect, minimal discharge and a rapid recharge
- Visual indication of complete crimp compression (green/orange/red)
- Lithium-ion battery-powered tools and lithium-ion batteries come with a 5-year limited warranty
- Covers a wide range of applications in both the electrical and utility markets



Li 6-ton open crimp tool

- Designed for one-handed control ram advancement and retraction*
- Open yoke design with rotating head allows for maximum crimping flexibility
- Protective rubber boot on head
- Rapid advance feature decreases crimp time
- Works with MAKITA LXT 18 V lithium-ion batteries‡

Cat. no.	Dimensions	Weight	Capacity	Output
TBM6PCR-LI	13.7"L x 3.3"W x 10.6"H	8.3 lbs. with battery	Cu #8–600 kcmil Al #8–400 kcmil	6 tons



Li 6-ton closed crimp tool

- Designed for one-handed control ram advancement and retraction*
- Rotating head allows maximum flexibility for crimping
- Rapid advance feature decreases crimp time
- Works with MAKITA LXT 18 V lithium-ion batteries‡

Cat. no.	Dimensions	Weight	Capacity	Output
TBM62PCR-LI	13.7"L x 3.3"W x 10.6"H	8.3 lbs. with battery	Cu #8–600 kcmil Al #8–400 kcmil	6 tons



Li inline 6-ton closed crimp tool

- Designed with a rotating 180˚ head and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of parallel-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time*
- Accepts W-style dies
- Works with MAKITA LXT 18 V lithium-ion batteries‡

Cat. no.	Dimensions	Weight	Capacity	Output
TBM62CR-LI	15.8"L x 3.3"W x 4.5"H	5.9 lbs. with battery	Cu #8–600 kcmil Al #8–400 kcmil	6 tons

‡ ABB Installation Products Inc. and its related companies are not affiliated, associated, authorized, sponsored, endorsed by or in any way officially connected with Makita Corporation or any of its subsidiaries or its affiliates. MAKITA and LXT are trademarks of Makita Corporation



* Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

TBM12PCR-LI, TBM14CR-LI and TBM15CR-LI lithium-ion battery-powered compression tools



Li 12-ton open crimp tool

- Designed for one-handed control ram advancement and retraction*
- Rotating head allows maximum flexibility for crimping and a protective rubber boot on “C” head
- Rapid advance feature decreases crimp time
- Works with MAKITA LXT 18 V lithium-ion batteries‡

Cat. no.	Dimensions	Weight	Capacity	Output
TBM12PCR-LI	17"L x 3.6"W x 11.3"H	16.3 lbs. with battery	Cu/Al #8–750 kcmil	12 tons



Li 14-ton open crimp tool

- Installs up to 900 kcmil copper lugs and splices and up to 750 kcmil aluminum lugs and splices
- Rotating head allows maximum flexibility for crimping and a protective rubber boot on “C” head
- Rapid advance feature decreases crimp time
- Works with MAKITA LXT 18 V lithium-ion batteries‡

Cat. no.	Dimensions	Weight	Capacity	Output
TBM14CR-LI	22"L x 3.5"W x 10.5"H	17.8 lbs. with battery	Cu #8–900 kcmil Al #10–750 kcmil	14 tons



Li 15-ton closed crimp tool

- Installs up to 1500 kcmil copper lugs and splices and up to 1250 kcmil aluminum lugs and splices
- Rotating head allows maximum flexibility for crimping and a protective rubber boot
- Rapid advance feature decreases crimp time
- Works with MAKITA LXT 18 V lithium-ion batteries‡

Cat. no.	Dimensions	Weight	Capacity	Output
TBM15CR-LI	23.5"L x 3.5"W x 10.5"H	19.8 lbs. with battery	Cu #8–1500 kcmil Al #10–1250 kcmil	15 tons

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* Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

Accessories for lithium-ion battery-powered tools



MAKITA LXT 18 V lithium-ion battery‡

- Equipped with Star Protection Computer Controls™ to help protect against overloading, over-discharging and over-heating
- Impact-resistant outer case and shock-absorbing inner liner are engineered to help protect the battery

Cat. no.	Dimensions	Weight	Capacity	Output
BAT-MK	4.2"L x 3.3"W x 2.6"H	1.2 lbs.	5.0 Ah	18 V DC



Charger for MAKITA LXT 18 V batteries‡

- Charger works across the MAKITA LXT‡ 18 V battery platform for tools shown in this brochure‡

Cat. no.	Dimensions	Weight	Capacity	Output
CHR-MK	9"L x 5.7"W x 3.2"H	1.70 lbs.	120 V AC 50–60 Hz	7.2 V DC– 18 V



14.4 V lithium-ion battery

- Provides more crimps per charge than standard Ni-MH batteries
- Lithium-ion technology

Cat. no.	Dimensions	Weight	Capacity	Output
144-BAT-LI	4.2"L x 3.3"W x 2.6"H	1.2 lbs.	3.0 Ah	14.4 V DC

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* Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

Accessories for lithium-ion battery-powered tools



Charger for 14.4 V batteries

- Charger works across the standard 14.4 V battery platform for Color-Keyed battery-powered compression tools

Cat. no.	Dimensions	Weight	Capacity	Output
144-CHR-LI	9"L x 5.7"W x 3.2"H	3.5 lbs.	100–240 V AC 50/60 Hz	10.8–14.4 V DC 7 A 28.8 V DC 3 A



Adapter for 14.4 V lithium-ion battery

- Converts older TBM series battery tools with poke-in style battery to the standard 14.4 V lithium-ion battery, allowing for higher productivity

Cat. no.	Dimensions	Weight	Capacity	Output
144-ADP-LI	–	–	–	–

Tools and dies

UT 3 M installation tool, UT 3 installation tool and upper dies and utility cable slicers



UT 3 M installation tool

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

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

Cat. no.	Description
UT 3 M	Installs compression connectors from #8 to 4/0 AWG



UT 3 installation tool and upper dies

Removable, reversible die installs ½" and ⅝" compression connectors.

- Also accommodates UT 3-4 G GOLD DIE, a ½" and ⅝" gold upper die for ACSR and UT 3-4 R RED DIE, a ½" and ⅝" red upper die for compressed and compact stranded wire
- Fast action – one stroke of the tool develops full compression
- SHURE-SQUEEZER™ design helps ensure 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	½" and ⅝" gold upper die for ACSR and stranded
UT 3-4 R RED DIE	½" and ⅝" red upper die for compressed and compact stranded



Utility cable slicers

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

- 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 (kcmil)	Max. OD inc. insulation (in.)	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	31½

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 ABB representative.

Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

Allen wrench and TBM45S Comfort Crimp® tool



The compact, dependable tool for turning a screw.

- 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

Allen wrench

Cat. no.	Hex size (in.)
WA 516	5⁄16
WA 38	3⁄8



Creates diamond-style crimp

- 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 time after time
- Color-coded die wheel for easy matching with Color-Keyed lugs and splices
- Crimp Assist® foot provides stability when work surface leverage is needed to crimp larger connectors
- UL® Listed for use with Color-Keyed compression connectors

TBM45S Comfort Crimp tool

Cat. no.	Description	Pkg. qty.
TBM45S	Crimp tool with Shure Stake mechanism for #8–#2 AWG copper and #10–#6 AWG aluminum lugs and splices	1

Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

TBM4S and TBM5S





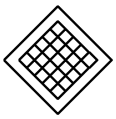
Creates indent-style crimp

- 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 helps ensure a properly completed crimp each time
- Easily adjusted by turning knurled adjusting wheel and aligning pointer with proper terminal size
- Dieless, adjustable crimper for Color-Keyed compression connectors

TBM4S dieless crimp tool

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





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 helps ensure a properly completed crimp each time
- Includes color-coded, die code-embossed installation dies
- See following page for optional carrying case

TBM5S crimp tool

Cat. no.	Color code	Die cat. no	Pkg. qty.
TBM5S	Red	13454	1
	Blue		
	Gray		
	Brown		
	Green	13455	
	Pink		
	Black		
	Orange		
	Purple	13456	
	Yellow		
	Gold	13457	
	Tan		
	Olive		
	Ruby		
	White	13458	

Tools and dies

TBM6S and carrying case





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 helps ensure 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 catalog for dies.

TBM6S crimp tool

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 case for TBM5S and TBM6S

Cat. no.	Description	Pkg. qty.
295-31365	Plastic carrying case for TBM5S and TBM6S	1

Tools and dies

TBM8S



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 helps ensure 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

TBM8S crimp tool

Cat. no.	Color code	Die cat. no	Pkg. qty.
TBM8S	Red	13461	1
	Blue		
	Gray		
	Brown		
	Green	13462	
	Pink		
	Black		
	Orange		
	Purple	13463	
	Yellow		
	Gold	13464	
	Tan		
	Olive		
	Ruby		
	White	13465	
	Red	13466	
	Blue	13467	
	Brown	13468	

Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies
25000 and TBM6H





Creates diamond-style crimp

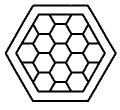
- Installs copper and aluminum connectors on wire sizes from #8 AWG to 500 kcmil
- Compact, heavy-duty air tool
- Simple to operate – insert stripped wire into connector barrel, position barrel in crimping nest and depress foot pedal to actuate crimping dies
- Uses same crimping dies as TBM6S (see p. 92)

25000 Air-operated bench-mount crimp tool

Cat. no.	Description	Pkg. qty.
25000	Air-operated bench-mount crimp tool	1



- 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 Color-Keyed connectors



Creates hex-style crimp

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 3$\frac{9}{16}$"
- Weight without dies: 6.5 lbs.

TBM6H 6-ton hydraulic crimping head

Cat. no.	Description	Pkg. qty.
TBM6H	6-ton hydraulic head with steel case	1



Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

TBM12



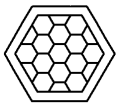
- Rugged steel construction is durable for most applications
- Includes five sets of multi-nested dies
- Dies emboss die code on connectors for easy inspection
- Closed yoke design yields maximum crimp performance
- Uses TBM12D style dies



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 3⅞"
- Weight without dies: 9 lbs.



Creates hex-style crimp

TBM12 12-ton hydraulic crimp head

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.

Tools and dies

TBM14M and 13100A



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

Creates hex-style crimp

Specifications

Installing range:

- Up to 900 kcmil copper lugs and splices
- Up to 750 kcmil aluminum lugs and splices
- CHT814-10 to CHT2502-6 copper H-taps
- 63105 to 63148 aluminum H-taps
- 54755 to 54775 C-taps
- Output force: 14 tons
- Length: 24"
- Weight without dies: 15.4 lbs.

TBM14M 14-ton manual hydraulic crimp tool

Cat. no.	Description	Pkg. qty.
TBM14M	14-ton manual hydraulic crimp tool with case	1



- Rugged design, long life in field or on bench
- C-yoke provides maximum flexibility for crimping
- Uses standard ABB 15500 Series dies
- Operates on 10,000-psi hydraulic pumps

Creates hex-style crimp

Specifications

Installing range:

- Up to 900 kcmil copper lugs and splices
- Up to 750 kcmil aluminum lugs and 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): 11½" x 2½" x 4¼"
- Weight without dies: 10 lbs.

13100A 14-ton hydraulic crimping head

Cat. no.	Description	Pkg. qty.
13100A	14-ton hydraulic head with steel case	1

Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

TBM15I and 21940



- 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 2⅝" x 4⅜"
- Weight without dies: 16.5 lbs.

TBM15I 15-ton hydraulic crimping head

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



- 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 7⅜"
- Weight without dies: 40 lbs.

21940 40-ton hydraulic crimping head

Cat. no.	Description	Pkg. qty.
21940	40-ton hydraulic head with steel case	1

Tools and dies

13606 and 13600 pumps



13606 foot-/hand-operated hydraulic pump

- Operates by hand or foot
- Operates all ABB hydraulic heads
- Built-in safety bypass valve
- Factory set at 9,800 psi

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.

13606 hydraulic pump

Cat. no.	Description	Pkg. qty.
13606	Combination hand- or foot-operated hydraulic pump	1



- 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, 115 V, 50–60 Hz, 10 A
- 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
- Reservoir volume: 104 cu. in. (0.45 gal.)
- Basic pump dimension: 6" x 8" x 16"
- Weight: 25 lbs.

13600 Electric hydraulic pump

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

Tools and dies

Battery connector crimp tools, TBM1-WS cable stripper, 364RF/366RF cable cutters



BCT840, BCT840S



TBM5-SV

- Adjustable die crimping tool for Color-Keyed cast and tubular battery connectors
- Available with Shure Stake® mechanism to help ensure a complete crimp every time (BCT840S, TBM5SV)
- 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

Battery connector crimp tools

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
TBM5-SV	Ratchet crimp tool with Shure Stake mechanism and die for #8 AWG to 4/0 AWG battery connectors	1



- Adjustable, ergonomic, heavy-duty, handheld wire stripping tool
- Includes two interchangeable cable retention hooks to cover a wide cable diameter range
- Offers locking positions for creating circular straight, window or spiral strips
- Features long-life, high-carbon steel blade

TBM1-WS cable stripper

Cat. no.	Description	Pkg. qty.
TBM1-WS	Stripping tool for 0.18" to 1.57" (4.5 mm to 40 mm) diameter cable	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 1000 kcmil copper and aluminum	1

For copper and aluminum cable only. Not for steel.
Replacement blades are available through tool services.

Tools and dies

CSR750 and 297-32136 cutters, cable slicing die sets



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



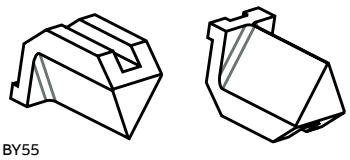
297-32136 hydraulic cutting head

- 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



BY55

Cable slicing die sets

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

Cat. no.	Maximum cable size (AWG or kcmil)	Tools	Pkg. qty.
BY55	2/0	TBM6H and TBM6BSCR	1
40CS	4/0	TBM14M and 13100A and TBM14BSCR	1
156CS	500	TBM15I and TBM15BSCR	1

Tools and dies

Type WW wire bristle brush, 21649 cable bender and CTR1 C-tap removal tool



- 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

Type WW wire bristle brush

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



CTR1 C-tap removal tool

Cat. no.	Description	Pkg. qty.
CTR1	C-tap removal tool	1

Tools and dies

TBM26MCC 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
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W): 12.4" x 4.7"
- Weight: 11.4 lbs.

TBM26MCC 26-ton hydraulic crimping head

Cat. no.	Description	Pkg. qty.
TBM26MCC	26-Ton hydraulic presshead	1

Pinch points, keep hands and other body parts away from the crimping head when crimping. Compression dies at high force can cause severe personal injury. Failure to observe this warning could result in severe injury or death.

Tools and dies

Dies for standard lugs and splices (TBM45S – TBM12)

Dies for standard lugs and splices (TBM45S – TBM12)

Connector size							TBM-8/8S	TBM-5/5S	TBM6/6S /25000		13642M / 13400 Hydraulic head		TBM12 Hydraulic head	
Code copper (AWG or kcmil)	Flex/24	Al/Cu (AWG or kcmil)	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 cat. no.	Die cat. no.	Die cat. no.
#8	37/24	#10	Red	↑	↑	↑	–	–	13475	13477	11732	21	TBM12D-1	21
#6	61/24	#8	Blue				–	–	13475	13477	11733	24	TBM12D-1	24
#4	91/24	#6	Gray				13461	13454	13472	13476	11734	29	TBM12D-2	29
#2	125/24	–	Brown				–	–	13474	13477	11735	33	TBM12D-2	33
#1	150/24	#4	Green	C-taps only			–	–	13474	13477	11736	37	TBM12D-3	37
1/0	225/24	#2	Pink				–	–	13475	13477	11737	42	TBM12D-3	42
2/0	275/24	–	Black				13462	13455	13474	13477	11738	45	TBM12D-4	45
3/0	325/24	–	Orange				–	–	13474	13477	11739	50	TBM12D-4	50
4/0	450/24	–	Purple				–	–	13475	13477	11740	54	TBM12D-5	54
250	550/24	–	Yellow				13463	13456	13473	13476	11771	62	TMB12D-5	62
–	–	#1	Gold				–	–	13474	13477	11738	45	TBM12D-4	45
–	–	1/0	Tan				–	–	13474	13477	11739	50	TBM12D-4	50
–	–	2/0	Olive				13464	13457	13475	13477	11740	54	TBM12D-5	54
–	–	3/0	Ruby				–	–	13473	13476	11741	60	TBM12D-5	60
300	–	4/0	White				13465	–	13473	13476	11742	66H	TBM12D-5	66H
350	775/24 (short)	250	Red				13466	13458	13472	13476	11743	71H	TBM12D-4	71H
400	775/24 (long)	300	Blue				134674/0 only		13472	13476	11744	76H	TBM12D-4	76H
–	925/24*	–	–				–	–	13479	13476	11745	80H	–	–
–	–	–					–	–	–	–	–	–	–	–
500	–	350	Brown				13468		13478	13478	11746-TB	87H	TBM12D-3	87H
600	1100/24	400	Green				–	–	–	–	11747	94H	TBM12D-3	94H
–	–	–					–	–	–	–	–	–	–	94H
–	1325/24**	–	Pink				–	–	–	–	–	–	–	–
700	–	500					–	–	–	–	11748	99H	TBM12D-2	99H
750	–	650	Black				–	–	–	–	11749	106H	TBM12D-2	106H
800	–	–	Orange				–	–	–	–	11750	107H	–	–
–	–	700	Purple				–	–	–	–	11751	112H	TBM12D-1	112H
900	1925/25	750	Yellow				–	–	–	–	11753	115H	TBM12D-1	115H
1000	–	800				↓	–	–	–	–	–	–	–	–
–	–	1000					–	–	–	–	–	–	–	–

* Standard barrel only. Long barrel requires brown 87h.
** Standard barrel only. Long barrel requires brown 106h.

Tools and dies

Dies for standard lugs and splices (OD58)

Dies for standard lugs and splices (OD58)

Connector size					OD58
Code copper (AWG or kcmil)	Flex/24	Al/Cu (AWG or kcmil)	Color code	Die cat no.	Die code no.
#8	37/24	#10	Red	BY15C	21
#6	61/24	#8	Blue	BY17C	24
#4	91/24	#6	Gray	BY19C	29
#2	125/24	–	Brown	BY21C	33
#1	150/24	#4	Green	BY53C	37
1/0	225/24	#2	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	550/24	–	Yellow	BY31C	62
–	–	#1	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 and splices (TMB6PCR-LI to TBM15CR-LI)

Dies for standard lugs and splices

Connector size (AWG or kcmil)				TBM6PCR-LI, TBM62PCR-LI, TBM62CR-LI, TBM6UNICR-LI					
Code copper	Flex/24	Al/Cu	Color code	Die cat. no.	Die code no.	HEX-FLEX die cat. no.	HEX-FLEX die code no.	Die cat. no.	Die code no.
#8	37/24	#10	Red	6TON21SS	21	6TON21XSS	21X	15520SS	21
#6	61/24	# 8	Blue	6TON24SS	24	6TON24XSS	24X	15522SS	24
#4	91/24	# 6	Gray	6TON29SS	29	6TON29XSS	29X	15527SS	29
#2	125/24	–	Brown	6TON33SS	33	6TON33XSS	33X	15528SS	33
#1	150/24	# 4	Green	6TON37SS	37	6TON37XSS	37X	15513SS	37
1/0	225/24	# 2	Pink	6TON42SS	42	6TON42XSS	42X	15508SS	42
2/0	275/24	–	Black	6TON45SS	45	6TON45XSS	45X	15526SS	45
3/0	325/24	–	Orange	6TON50SS	50H	6TON50XSS	50X	15530SS	50
4/0	450/24	–	Purple	6TON54SS	54H	6TON54XSS	54X	15511SS	54
250	550/24	–	Yellow	6TON62SS	62H	6TON62XSS	62X	15510SS	62
–	–	# 1	Gold	6TON45SS	45	–	–	15526SS	45
–	–	1/0	Tan	6TON50SS	50H	–	–	15530SS	50
–	–	2/0	Olive	6TON54SS	54H	–	–	15511SS	54
–	–	3/0	Ruby	6TON60SS	60H	–	–	15532SS	60
300	650/24	4/0	White	6TON66SS	66H	6TON66XSS	66X	15534SS	66
350	775/24 (short)	250	Red	6TON71SS	71H	–	–	15514SS	71
400	775/24 (long)	300	Blue	6TON76SS	76H	–	–	15512SS	76
	925/24*	–	–	6TON80SS	80H	–	–	15517SS	80H
500	925/24	350	Brown	6TON87SS	87H	–	–	15506SS	87H
600	1100/24	400	Green	6TON94SS	94H	–	–	15536SS	94H
700	1325/24	500	Pink	–	–	–	–	15505SS	99H
750	1600/24**	600	Black	–	–	–	–	15515SS	106H
800	–	–	Orange	–	–	–	–	15540SS	107H
–	–	700	Purple	–	–	–	–	–	–
900	1925/24	750	Yellow	–	–	–	–	15504SS	115H
1000	–	800	–	–	–	–	–	–	–
–	–	1000	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–

*Standard barrel only. Long barrel requires Brown 87H.
**Flex wire size 1600/24 requires long barrel only with die code Black 106H.
† 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. 6TONXSS for all 6TONXSS series, one cat. no. 15500XSS for 15500XSS series die codes 21X-94X and one cat. no. 15600X for all 15600X series die codes 62X-115X.
‡ These dies require adapter 15500-TB to be used in the TBM15CR-LI.

Tool warranty applies: Refer to http://www-public.tnb.com/warranty/ta04790-tb2.pdf for full warranty terms.

Tools and dies

Dies for standard lugs and splices (TMB6PCR-LI to TBM15CR-LI)



Die sets

Cat. no.	Die codes	Description
TBM6HDXSS	21X, 24X, 29X, 33X, 37X, 42X, 45X, 50X, 54X, 62X	6-ton HEX-FLEX™ stainless steel die set #8 AWG–300 kcmil
TBM6HD1SS	21, 24, 29, 33, 37, 42, 45, 50, 56, 60, 62, 71, 76, 80, 87, 94	6-ton stainless steel hex die set #8 AWG–600 kcmil
15500SS-KHF	42X, 45X, 50X, 54X, 62X, 66X, 71X, 76X, 80X, 87X, 94X	14-ton HEX-FLEX™ stainless steel hex die kit 22-piece, 1/0 AWG–600 kcmil
15500SS-K10	24, 33, 42, 45, 50, 54, 62, 71, 87, 106	14-ton stainless steel hex die kit 10-piece, #6 AWG–750 kcmil
15500SS-K15	24, 29, 33, 37, 42, 45, 50, 54, 62, 66, 71, 76, 87, 94, 106	14-ton stainless steel hex die kit 15-piece, #6 AWG–750 kcmil

TBM12PCR-LI, TBM14CR-LI								TBM15CR-LI	
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 full die code no.
15520XSS	21X	15520SS	21	15520F	21	15520XSS	21X	–	–
15522XSS	24X	15522SS	24	15522F	24	15522XSS	24X	–	–
15527XSS	29X	15527SS	29	15527F	29	15527XSS	29X	–	–
15528XSS	33X	15528SS	33	15528F	33	15528XSS	33X	–	–
15513XSS	37X	15513SS	37	15513F	37	15513XSS	37X	–	–
15508XSS	42X	15508SS	42	15508F	42	15508XSS	42X	–	–
15526XSS	45X	15526SS	45	15526F	45	15526XSS	45X	–	–
15530XSS	50X	15530SS	50	15530F	50	15530XSS	50X	–	–
15511XSS	54X	15511SS	54	15511F	54	15511XSS	54X	–	–
15510XSS	62X	15510SS	62	15510F	62	15510XSS	62X	15662X	62X
–	–	15526SS	45	–	–	–	–	–	–
–	–	15530SS	50	–	–	–	–	–	–
–	–	15511SS	54	–	–	–	–	–	–
–	–	15532SS	60	15532F	60	–	–	–	–
15534XSS	66X	15534SS	66	15534F	66	15534XSS	66X	15666X	66X
15514XSS	71X	15514SS	71	15514F	71	15514XSS	71X	15671X	71X
15512XSS	76X	15512SS	76	15512F	76	15512XSS	76X	15676X	76X
15517XSS	80X	15517SS	80H	15606	80H	15517XSS	80X	15606X	80X
15506XSS	87X	15506SS	87H	15506F	87H	15506XSS	87X	15687X	87X
15536XSS	94X	15536SS	94H	15611	94H	15536XSS	94X	15611X	94X
–	–	15505SS	99H	15505F	99H	–	–	15605X	99X
–	–	15515SS	106H	15515F	106H	–	–	15615X	106X
–	–	–	–	15608	107H	–	–	15608X	107X
–	–	–	–	15609	112H	–	–	–	–
–	–	15504SS	115H	15504F	115H	–	–	15604X	115X
–	–	–	–	15603	125H	–	–	–	–
–	–	–	–	15602	140H	–	–	–	–
–	–	–	–	15601	150H	–	–	–	–

Tools and dies

Dies for standard and large C-taps and dies for aluminum H-taps

Dies for standard C-taps

Connector	Color code	TBM25S die no.	TBM5/5S die no.	TBM6/6S die no.	TBM8/8S die no.	BPLT62BSCR die no.	TBM6H 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

Dies for large C-taps

Connector	Color code	13642M/13400 die no.	TBM12 die no.	TBM15I/ BPLT15BSCR die no.
54755	Blue	11744	TBM12D-4	–
54760	Brown	11746-TB	TBM12D-3	–
54765	Pink	11748	TBM12D-2	–
54770	Black	11749	TBM12D-2	–
54775	Yellow	11753	TBM12D-1	–
54780	White	–	–	15603
54785	–	–	–	15603
54790	–	–	–	15603

Dies for aluminum H-taps

Connector	Color code	TBM5/5S die no.	TBM6/6S die no.	TBM8/8S die no.	TBM12 die no.	TBM6H die no.	13100A/JB12B/ TBM14M/ BPLT14BSCR die no.	TBM15I/ BPLT15BSCR die no.
63105	Orange	13455	13474/13477	13462	TBM12D-4	6TON50	–	–
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		–	13471	–	TBM12D-H	DBL	15502	15502
63160	Red	–	–	–	–	–	–	15612
63169	Black	–	–	–	–	–	–	15620
63170		–	–	–	–	–	–	15620
63180		–	–	–	–	–	–	15620

Tools and dies

Dies for copper H-taps, high-voltage connectors and figure 6 and 8 ground connectors

Dies for copper H-taps

Connector	Color code	TBM6H die no.	13100A/JB12B/TBM14M/ BPLT14BSCR die no.	TBM15I/ 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
CHT750350-2	Yellow	–	–	15620CH
CHT75040-11		–	–	15620CH
CHT750350-1F	White	–	–	15620CHF

Dies for high-voltage connectors

		TBM15I, TBM14M, 13100A
Die code no.	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 (AWG or kcmil)	To cable element B (AWG or kcmil)	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	#6 Sol. – #2 Str.	½" – ⅝" Rod	⅜" – ½" #3 – #4 Rebar	15G86R	15501A
54875L	#2 Str. – 250	#2 Str. – 250	½" – ⅝" Rod	⅜" – ½" #3 – #4 Rebar	15G86R	15G86R
54885L	250 – 500	#6 Sol. – #2 Str.	⅝" – ¾" Rod	⅝" – ¾" #3 – #4 Rebar	15G126R	15501A
54895L	250 – 500	#2 Str. – 250	⅝" – ¾" Rod	⅝" – ¾" #4 – #5 Rebar	15G126R	15G86R
54900L	250 – 500	#2 Str. – 250	⅝" – ¾" Rod	⅝" – ¾" #4 – #5 Rebar	15G121R	15G121R

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7TKK000133 REV C 9.2026