

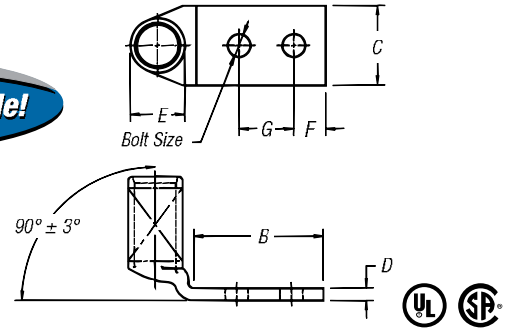
Compression Connectors for Copper Conductor

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

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



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



CAT. NO.	WIRE SIZE		BOLT SIZE	DIMENSIONS (IN.)						DIE CODE	DIE COLOR
	CODE	FLEX CLASS G, H, I, K, M†		B	C	D	E	F	G		
56-31426-3SPHUB			#10	1.25	.37	.07	.20	1/32	5/16-3/4	ERG4002, ERG4005	"C" NEST
256-30695-1298UB	#14-10 AWG		1/4	1.22	.50	.05	.20	1/4	5/8		
256-30695-1055UB			1/4	1.31	.50	.13	.36	1/4	5/8-3/4		
54850BEUB		37/24 = 14.9 kcmil	1/4	1.89	.42	.07	.26	1/4	11/16	21	RED
54851BEUB	#8 AWG	#8 Weld	1/4	1.29	.47	.06	.26	1/4	3/4	21	
54851BEUB0616		23 Navy	3/8	2.10	.56	.06	.26	3/8	1	21	
54852BEUB			1/4	1.28	.44	.08	.30	1/4	5/8	24	BLUE
2563069510148		30 Navy	1/4	1.63	.43	.08	.30	1/4	1	24	
54852BEUB0412	#6 AWG	61/24 = 24.6 kcmil	1/4	1.43	.43	.08	.30	1/4	3/4	24	
54852BEUB0616		#6 Weld	3/8	1.93	.59	.06	.30	3/8	1	24	
54852BEUB0828			1/2	3.00	.88	.11	.30	1/2	1 1/4	24	
54854BEUB			1/4	1.19	.52	.10	.37	1/4	5/8	29	GRAY
54854BEUB0412			1/4	1.31	.56	.09	.37	1/4	3/4	29	
54854BEUB0416	#4 AWG	40-50 Navy	1/4	1.88	.58	.09	.37	3/8	1	29	
54854BEUB0516		#5, 91/24 = 36.7 kcmil	1/2	1.75	.56	.10	.37	11/32	1	29	
54854BEUB0616		#4 Weld	3/8	1.98	.59	.09	.37	3/8	1	29	
54854BEUB0828			1/2	3.00	.88	.09	.37	1/2	1 1/4	29	
54858BEUB0416			1/4	1.88	.67	.09	.41	3/8	1	33	BROWN
54855BEUB			1/4	1.28	.59	.11	.41	1/4	5/8	33	
54855BEUB0412		60 Navy	1/4	1.35	.68	.11	.41	1/4	3/4	33	
54856BEUB	#2-3 AWG	#3 Weld	1/2	1.63	.59	.11	.41	3/8	3/4	33	
54810BEUB		125/24 = 50.4 kcmil	3/8	2.57	.59	.11	.41	3/8	1 1/4	33	
54810BEUB0616			3/8	1.94	.59	.11	.41	3/8	1	33	
54811BEUB			1/2	3.00	.88	.11	.41	1/2	1 1/4	33	GREEN
54809BEUB			1/4	1.19	.67	.11	.47	1/4	5/8	37	
54812BEUB		75 Navy	1/4	1.40	.67	.11	.47	1/4	3/4	37	
54858BEUB	#1 AWG	150/24 = 60.5 kcmil	1/2	1.63	.67	.11	.47	3/8	5/8	37	
54857BEUB0616		175/24 = 70.6 kcmil	3/8	1.98	.67	.11	.47	3/8	1	37	
54857BEUB		#2 Weld	1/2	3.00	.88	.11	.47	1/2	1 1/4	37	
54859BEUB0416			1/4	1.88	.75	.13	.52	3/8	1	42	PINK
54859BEUB0416PH			1/4	1.88	.75	.13	.52	3/8	1	42	
54859BEUB		100 Navy	1/4	1.19	.75	.13	.52	1/4	5/8	42	
54813BEUB	1/0 AWG	#1 Weld	1/4	1.38	.75	.13	.52	1/4	3/4	42	
54860BEUB		225/24 = 90.8 kcmil	1/2	1.63	.75	.13	.52	3/8	5/8	42	
54860BEUB0616			3/8	1.98	.75	.13	.52	3/8	1	42	
54860BEUB0828			1/2	3.00	.75	.13	.52	3/8	1 1/4	42	BLACK
54814BEUB			1/4	1.25	.83	.13	.57	1/4	5/8	45	
54814BEUB0412		125 Navy	1/4	1.31	.81	.13	.57	1/4	3/4	45	
54862BEUB0616	2/0 AWG	275/24 = 111 kcmil	3/8	1.81	.83	.13	.57	3/8	1	45	
54862BEUB0616PH		1/0 Weld	3/8	1.81	.83	.13	.57	3/8	1	45	
54862BEUB			1/2	2.81	.83	.13	.57	1/2	1 1/4	45	

† Contact Technical Services for specific stranding listings

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

Compression Connectors for Copper Conductor

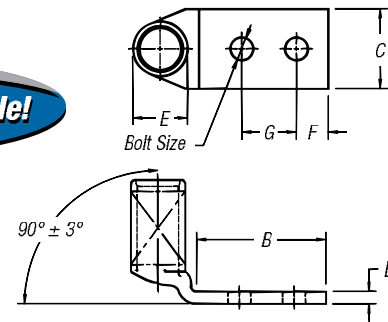
Two-Hole Lugs — 90° Long Barrel 600V to 35kV Applications (continued)

Material: High-Conductivity
Wrought Copper

Finish: Electro Tin Plate



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



WIRE SIZE				DIMENSIONS (IN.)						DIE CODE	DIE COLOR
CAT. NO.	CODE	FLEX CLASS G, H, I, K, M†	BOLT SIZE	B	C	D	E	F	G		
54815BEUB	3/0 AWG	150 Navy	¼	1.45	.92	.13	.63	¼	¾	50	ORANGE
54816BEUB		2/0 Weld	¾	1.63	.92	.13	.63	¾	¾	50	
54864BEUB		325/24 = 131 kcmil	½	3.00	.94	.13	.63	½	1¾	50	
54817BEUB	4/0 AWG	200 Navy	¼	1.38	1.03	.14	.70	¼	¾	54	PURPLE
54818BEUB			¾	2.63	1.03	.14	.70	¾	1¾	54	
54818BEUB0616			¾	1.81	1.03	.14	.70	¾	1	54	
54818BEUB0616PH			¾	1.88	1.03	.14	.70	¾	1	54	
54866BEUB			½	3.00	1.03	.14	.70	½	1¾	54	
54868BEUB0616	250 kcmil	250 Navy	¾	1.93	1.13	.14	.77	¾	1	62	YELLOW
54868BEUB0616PH		550/24 = 222 kcmil	¾	1.93	1.13	.14	.77	¾	1	62	
54868BEUB		4/0 Weld	½	3.00	1.13	.14	.77	½	1¾	62	
54819BEUB	300 kcmil	300 Navy	¾	2.80	1.25	.15	.85	¾	1	66	WHITE
54870BEUB		250 Weld, 26, 2, 650/24	½	3.00	1.25	.15	.85	½	1¾	66	
54820BEUB	350 kcmil		¼	1.93	1.36	.18	.93	¼	¾	71	RED
54872BEUB0616			¾	1.93	1.36	.18	.93	¾	1	71	
54872BEUB0616PH			¾	1.93	1.36	.18	.93	¾	1	71	
54872BEUB			½	3.00	1.36	.18	.93	½	1¾	71	
54822BEUB	400 kcmil	400 Navy	¼	1.93	1.41	.17	.96	¼	¾	76	BLUE
54821BEUB		775/24 = 313 kcmil	¾	1.93	1.41	.17	.96	¾	1	76	
54874BEUB		300 Weld, 350, 259 Str.	½	3.00	1.41	.17	.96	½	1¾	76	
54823BEUB	500 kcmil	400 Weld, G, H, I	¼	1.94	1.61	.22	1.10	¼	¾	87	BROWN
54823BEUB0616			¾	1.93	1.61	.22	1.10	¾	1	87	
54876BEUB0616PH			¾	1.93	1.61	.22	1.10	¾	1	87	
54876BEUB			½	3.00	1.61	.22	1.10	½	1¾	87	
54824BEUB	600 kcmil	450 Weld, I, K	¾	2.80	1.75	.24	1.20	¾	1	94	GREEN
54878BEUB		1100/24 = 444 kcmil	½	3.00	1.75	.24	1.20	½	1¾	94	
54880BEUB0616	750 kcmil	500, G, H, I, K	¾	2.06	1.94	.27	1.33	½	1	106	BLACK
54880BEUB0616PH			¾	2.06	1.94	.27	1.33	½	1	106	
54880BEUB			½	3.00	1.94	.27	1.33	½	1¾	106	
58884BEUB	900 kcmil	1600/24 = 646 kcmil	½	3.00	1.94	.27	1.33	½	1¾	106	YELLOW
58826BEUB		1925/24 = 777 kcmil	½	3.00	2.18	.31	1.50	½	1¾	115	
54826BEUB	1000 kcmil	1000 Navy	¾	2.80	2.27	.30	1.55	¾	1	125	N/A
54882BEUB			¾	3.00	2.27	.30	1.55	½	1¾	125	

† Contact Technical Services for specific stranding listings

Tooling: pp. F-80-F-100

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

Overview

Order Form

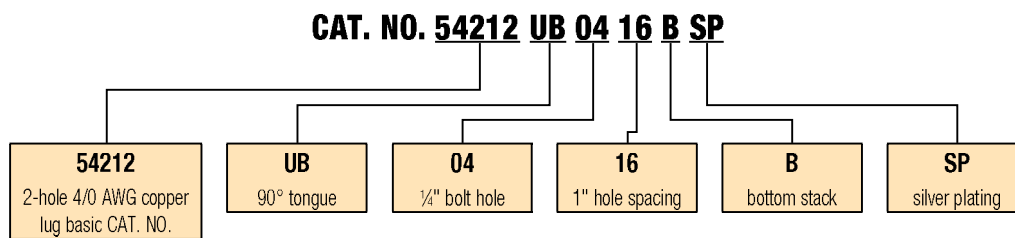
Catalog No. _____ Qty. _____
(For 54100, 54200, 54800 & 54900 Series Copper Lugs Only)

Design Controls and Requirements

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

Notes: 1) Lack of any of the extra features on the "MADE-UP" catalog number means that the standard Cat. No. features are prevalent.

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



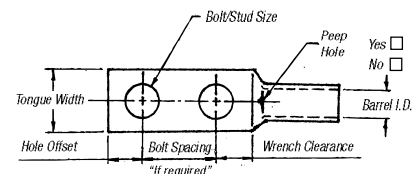
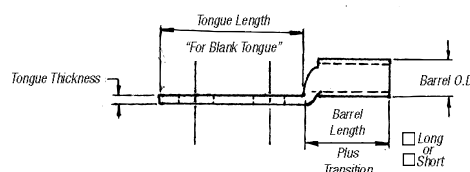
Code Table

TONGUE SHAPE		BOLT HOLES		BOLT HOLE CENTERS		STACKING		FINISH (PLATING)		INSPECTION HOLE (LONG BARREL)		INSPECTION HOLE (SHORT BARREL)		
TYPE	CODE	SIZE	.020	CODE	DISTANCE .015	CODE	TYPE	CODE	TYPE 1	CODE	I.D.	CODE	I.D.	CODE
15°	UI	#8	.173	02	½"	08	Top	T**	Silver Plate	SP	Peep Hole	PH	Blind End	BE
30°	UT	#10	.204	03	⅝"	10	Bottom	B	Lead Plate	LP				
45°	UF	¼"	.281	04	¾"	12			Nickel Plate	NP				
60°	US	⅝"	.344	05	⅞"	14			Plain Finish	PF				
90°	UB	⅜"	.406	06	1"	16			No Marking	NM				
Blank	BT	½"	.531	08	1⅝"	18			Not QTP if					
(No Bolt Hole)		⅝"	.656	10	1¼"	20			suffix other					
		¾"	.812	12	1⅜"	22			than - PF or					
		⅞"	.937	14	1½"	24			standard					
		1"	1.062	16	1⅞"	26			tin plate					
					1¾"	28								
					1⅞"	30								
					2"	32								

* These bolt centers not available for bolt holes larger than 1 3/8".

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

Cable	Code	Weld
☐ #8	☐ #6	☐ #4
☐ #2	☐ #1	☐ 1/0
☐ 2/0	☐ 3/0	☐ 4/0
☐ 250 kcmil & up (Code Only)		

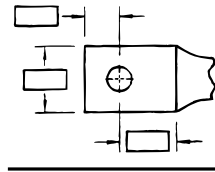


Overview

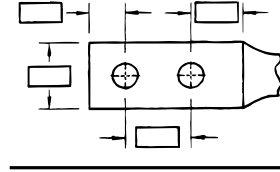
Tongue Specifications — See Chart “A” For Dimensions

Stud Sizes

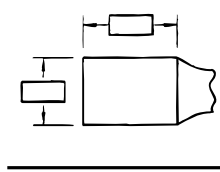
☐ #8	☐ #10	☐ ¼"
☐ ⅜"	☐ ⅝"	☐ ½"
☐ ⅞"	☐ ¾"	☐ ⅝"
☐ 1"		



☐ Single Hole



☐ Double Hole



☐ Blank

Chart A

NOMINAL BOLT HOLE SIZE .015	HOLE OFFSET .030	WRENCH CLEARANCE MIN.	TONGUE WIDTH CABLE SIZE										
			#8 CODE	#6 CODE		#2 CODE	#1 CODE	1/0 CODE	2/0 CODE	3/0 CODE	4/0 CODE	250	
			#8 WELD	#6 WELD	#4 CODE	#4 WELD	#2 WELD	#1 WELD	1/0 WELD	2/0 WELD	3/0 WELD	CODE	
#8	.173	.200	.240	.406	.437	.562	.593	.672	.750	.825	.937	1.030	1.125
#10	.204	.218	.250	.406	.437	.562	.593	.672	.750	.825	.937	1.030	1.125
¼	.281	.250	.312	.469	.500	.562	.593	.672	.750	.825	.937	1.030	1.125
⅜	.344	.375	.406	.562	.562	.562	.675	.672	.750	.825	.937	1.030	1.125
½	.406	.375	.440	.578	.578	.594	.675	.672	.750	.825	.937	1.030	1.125
⅝	.531	.500	.562	—	—	—	.750	.750	.750	.825	.937	1.030	1.125
¾	.656	.625	.875	—	—	—	—	—	—	—	.937	1.030	1.125
⅞	.812	.750	.770	—	—	—	—	—	—	—	—	—	—
1*	.937	.875	.890	—	—	—	—	—	—	—	—	—	—
1*	1.062	.937	1.000	—	—	—	—	—	—	—	—	—	—

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

Chart B

CABLE SIZE	TONGUE THICKNESS	STRAIGHT LUG BARREL LENGTH PLUS TRANSITION		BARREL		DIM "X" STACKED LUGS			DIM "Y"		DIM "H"	
		SHORT	LONG	O.D.	I.D.	STRAIGHT	45°	90°	SHORT	LONG	SHORT	LONG
#8	.080	.635	.935	.260	.180	.158	.478	.394	.595	.808	.779	1.079
#6	.081	.675	.975	.296	.215	.134	.544	.432	.587	.799	.767	1.067
#4	.099	.685	.985	.365	.266	.175	.622	.502	.637	.849	.838	1.138
#2	.108	.815	1.115	.410	.302	.216	.649	.535	.711	.923	.958	1.258
#1	.106	.825	1.275	.467	.361	.212	.731	.592	.710	1.028	.956	1.406
1/0	.125	.975	1.325	.520	.396	.250	.789	.646	.794	1.042	1.075	1.425
2/0	.125	.965	1.315	.571	.446	.250	.859	.696	.829	1.077	1.125	1.475
3/0	.125	1.085	1.435	.632	.507	.250	.946	.757	.900	1.148	1.225	1.575
4/0	.137	1.255	1.705	.701	.564	.274	1.031	.826	1.015	1.333	1.387	1.837
250	.137	1.375	1.925	.766	.629	.274	1.123	.891	1.085	1.474	1.487	2.037
300	.153	1.900	2.675	.850	.660	.459	1.226	.975	1.180	1.726	1.924	2.679
350	.177	2.090	2.896	.926	.720	.531	1.333	1.103	1.267	1.830	2.096	2.896
400	.173	2.460	2.980	.960	.757	.519	1.370	1.085	1.551	1.913	2.484	2.984
500	.218	2.670	3.610	1.100	.852	.654	1.514	1.225	1.629	2.266	2.669	3.619
600	.244	2.900	3.490	1.200	.926	.732	1.630	1.325	1.762	2.147	2.897	3.497
700	.228	2.784	—	1.255	.997	.684	1.662	1.375	1.780	—	3.011	—
750	.270	3.050	3.925	1.330	1.030	.810	1.745	1.455	1.827	2.434	3.050	3.925
800	.266	3.213	—	1.375	1.079	.800	1.728	1.625	1.952	2.787	3.213	4.554
900	.313	3.450	4.550	1.500	1.145	.940	1.900	1.650	2.065	—	1.387	—
1,000	.297	3.356	4.500	1.550	1.203	.890	2.070	1.675	2.031	2.787	1.487	4.506

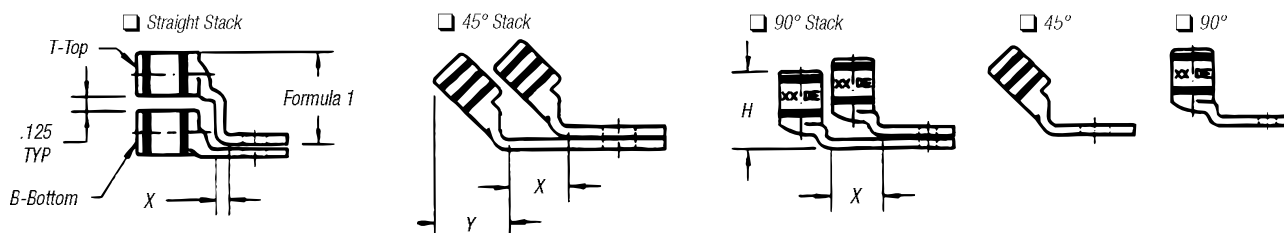
Note: Stacking lugs are available for one bolt only.

Consult Factory: Straight: 700 kcmil & up.

45°: 400 kcmil & up

90°: 500 kcmil & up

Overview



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

Chart C

TONGUE WIDTH .030 CODE CABLE SIZE											
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	—	—	—	—	—	—	—	—	—	—	—
¼	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
⅜	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
½	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
¾	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
⅞	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
1*	—	—	—	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265

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