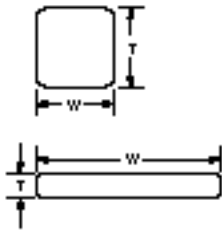


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How to Compute Circular Mil Area of Various Wire Shapes

Square or Rectangular Wire



U.S. Customary Dimensions

Multiply the width of the wire cross section in mils by the thickness of the wire cross section in mils by 1.2732 and subtract the radius factor shown below.

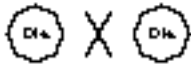
$$\text{CMA} = W \times T \times 1.2732 - \text{radius factor}$$

Metric Dimensions

Multiply the width of the wire cross section in millimetres by the thickness of the wire cross section in millimetres by 1973.525 and subtract the radius factor shown below.

$$\text{CMA} = W \times T \times 1973.525 - \text{radius factor}$$

Round Solid Wire AWG



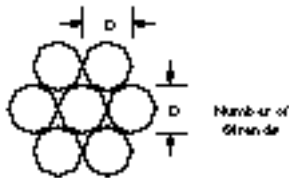
Multiply the diameter in mils by itself.

$$\text{CMA} = D^2$$

Multiply the diameter in millimetres by itself by 1550.003

$$\text{CMA} = D^2 \times 1550.003$$

Stranded Wire AWG



Multiply the diameter of one strand (in mils) by itself, and then multiply the result by the total number of strands.

$$\text{CMA} = D^2 \times N$$

Multiply the diameter of one strand in millimetres by itself by the number of strands by 1550.003.

$$\text{CMA} = D^2 \times N \times 1550.003$$

Conversion Table

To Convert From	To	Multiply By
CMA	mm ²	.0005067075
CMA	in ²	.0000007854
mm ²	in ²	.001550003
mm ²	CMA	1973.525

Note: Refer to table listing for circular mil area for common wire sizes.

Radius Factor, U.S. Customary

Radius (in.)	Radius Factor To Subtract (CMA)
.010	110
.012	158
.016	280
.020	438
.026	740
.032	1121
.040	1752
.063	4346
.094	9675

Radius must be measured.

Radius Factor, Metric

Radius (mm)	Radius Factor To Subtract (CMA)
0.25	106
0.3	153
0.35	208
0.4	272
0.5	424
0.6	611
0.8	1086
1.2	2444

Radius must be measured.

Table of SOLISTRAND and Budget Standard Wire Ranges

Use to select the proper size terminals or splices.

Terminal Connector Size	CMA Range
26-22	202-810
24-20	320-1,290
22-16	509-3,260
16-14 & 16-14 HD	2,050-5,180
14-12	3,260-8,230
12-10	5,180-13,100
8 & 8 HD	13,100-20,800
6 & 6 HD	20,800-33,100
4 & 4 HD	33,100-52,600

HD-Denotes Heavy Duty Terminal.

Terminal Connector Size	CMA Range
2 & 2 HD	52,600-83,700
1/0 & 1/0 HD	83,700-119,500
2/0	119,500-150,500
3/0	150,500-190,000
4/0	190,000-231,000
250-300 MCM	231,000-300,000
300-350 MCM	300,000-380,000
400 MCM	350,000-478,000
500-600 MCM	478,000-600,000

Table listing: Circular Mil Area for common wire sizes

Wire Sizes in AWG and mm² to CMA

Note: The following tables are applicable to single and multiple strand, round, conductors only.

Computing Circular Mil Area

For best results, the proper AMP terminal or splice must be selected not by the "fit" of wire or wires in the terminal barrel, but by the total circular mil area in cross section of the wires used. For this purpose AMP has prepared convenient tables to assist in the calculation of circular mil areas. When the totals are known, the proper AMP terminal or splice can be determined quickly.

Unusual combinations or special applications should be submitted to AMP engineering department for size recommendation. In any application, the careful selection of terminals by the circular mil area method will insure the highest possible performance, both electrically and mechanically, in your AMP terminations.

Example of multiple wire configurations used in one termination

ALWAYS SELECT TERMINALS BY THE CIRCULAR MIL AREA METHOD. For example, a No. 18 AWG 16-strand conductor (1600 CMA) and a No. 16 AWG 19-strand conductor (2426 CMA) will have a combined total of 4026 CMA. This total CMA is equivalent to a No. 14 AWG conductor.

CMA	Nominal Wire Size		No.	Strands Diameter		Approximate Conductor Diameter	
	AWG	mm ²		Inch	mm	Inch	mm
3.8	44	0.002	1	0.00195	0.050	0.002	0.051
4.0	44	0.002	1	0.002	0.051	0.002	0.051
4.8	43	0.002	1	0.0022	0.056	0.0022	0.056
6.3	42	0.003	1	0.0025	0.064	0.0025	0.064
7.8	41	0.004	1	0.0028	0.071	0.0028	0.071
9.6	40	0.005	1	0.0031	0.079	0.0031	0.079
12.3	39	0.006	1	0.0035	0.089	0.0035	0.089
15.2	38	0.008	1	0.0039	0.099	0.0039	0.099
16.0	38	0.008	1	0.004	0.102	0.004	0.102
20.2	37	0.010	1	0.0045	0.114	0.0045	0.114
25.0	36	0.013	1	0.005	0.127	0.005	0.127
31.4	35	0.016	1	0.0056	0.142	0.0056	0.142
39.7	34	0.020	1	0.0063	0.160	0.0063	0.160
50.0	33	0.025	1	0.00707	0.180	0.0071	0.180
50.4	33	0.026	1	0.0071	0.180	0.0071	0.180
64.0	32	0.032	1	0.008	0.203	0.008	0.203
79.2	31	0.040	1	0.0089	0.226	0.0089	0.226
100.0	30	0.051	1	0.01	0.254	0.01	0.254
104.0	30	0.053	26	0.002	0.051	0.012	0.305
127.7	29	0.064	1	0.0113	0.287	0.011	0.279
152.1	29	0.077	10	0.0039	0.099	0.013	0.330
158.8	29	0.080	1	0.0126	0.320	0.013	0.330
175.0	28	0.089	7	0.005	0.127	0.015	0.381
182.6	28	0.093	19	0.0031	0.079	0.016	0.406
202	27	0.102	1	0.0142	0.361	0.014	0.356
204	27	0.103	51	0.002	0.051	0.016	0.406
238	26	0.121	6	0.0063	0.160	0.018	0.457
250	26	0.127	26	0.0031	0.079	0.018	0.457
250	26	0.127	10	0.005	0.127	0.018	0.457
251	26	0.127	8	0.0056	0.142	0.018	0.457
253	26	0.128	1	0.0159	0.404	0.016	0.406
256	26	0.130	16	0.004	0.102	0.018	0.457
274	26	0.139	18	0.0039	0.099	0.022	0.558
278	26	0.141	7	0.0063	0.160	0.019	0.483
288	26	0.146	72	0.002	0.051	0.022	0.559
300	26	0.152	3	0.01	0.254	0.02	0.508
304	26	0.154	19	0.004	0.102	0.02	0.508
313	25	0.159	1	0.0177	0.450	0.018	0.457
314	25	0.159	10	0.0056	0.142	0.02	0.508
318	25	0.161	8	0.0063	0.160	0.021	0.533
320	25	0.162	1	0.0179	0.455	0.018	0.457
388	24	0.197	1	0.0197	0.500	0.02	0.508
397	24	0.201	10	0.0063	0.160	0.023	0.584
400	24	0.203	16	0.005	0.127	0.023	0.584
400	24	0.203	4	0.01	0.254	0.023	0.584
403	24	0.204	8	0.0071	0.180	0.023	0.584
404	24	0.205	1	0.0201	0.511	0.02	0.508
408	24	0.207	13	0.0056	0.142	0.023	0.584
408	24	0.207	102	0.002	0.051	0.02	0.508
475	24	0.241	19	0.005	0.127	0.023	0.584
634	22	0.321	8	0.0089	0.226	0.029	0.737
635	22	0.322	16	0.0063	0.160	0.029	0.737
640	22	0.324	10	0.008	0.203	0.029	0.737
640	22	0.324	1	0.0253	0.643	0.025	0.635
650	22	0.329	26	0.005	0.127	0.033	0.838
700	22	0.355	7	0.01	0.254	0.03	0.762
754	22	0.382	19	0.0063	0.160	0.033	0.838
812	21	0.411	1	0.0285	0.724	0.029	0.737
992	20	0.503	1	0.0315	0.800	0.032	0.813
1000	20	0.507	10	0.01	0.254	0.038	0.965
1008	20	0.511	20	0.0071	0.180	0.039	0.991
1024	20	0.519	16	0.008	0.203	0.039	0.991
1024	20	0.519	1	0.032	0.813	0.032	0.813
1024	20	0.519	256	0.002	0.051	0.039	0.991
1025	20	0.519	41	0.005	0.127	0.038	0.965
1032	20	0.523	26	0.0063	0.160	0.039	0.991
1111	20	0.563	7	0.0126	0.320	0.039	0.991
1186	20	0.601	19	0.0079	0.201	0.041	1.041
1289	19	0.653	1	0.0359	0.912	0.036	0.914
1492	18.5	0.756	7	0.0146	0.371	0.047	1.194
1512	18.5	0.766	30	0.0071	0.180	0.047	1.194
1536	18.5	0.778	384	0.002	0.051	0.047	1.194
1536	18.5	0.778	24	0.008	0.203	0.047	1.194
1600	18	0.811	16	0.01	0.254	0.049	1.245
1608	18	0.815	19	0.0092	0.234	0.049	1.245

Table listing: Circular Mil Area for common wire sizes (Continued)

**Wire Sizes in AWG
and mm² to CMA**

Note: The following tables are applicable to single and multiple strand, round, conductors only.

CMA	Nominal Wire Size		No.	Strands		Approximate Conductor Diameter	
	AWG	mm ²		Diameter		Inch	mm
1617	18	0.819	7	0.0152	0.386	0.042	1.067
1624	18	0.823	1	0.0403	1.024	0.04	1.016
1625	18	0.823	65	0.005	0.127	0.04	1.016
1627	18	0.824	41	0.0063	.0160	0.049	1.245
1639	18	0.830	7	0.0153	0.389	0.042	1.067
1770	18	0.897	7	0.0159	0.404	0.048	1.219
1900	18	0.963	19	0.01	0.254	0.052	1.321
1980	17	1.003	1	0.0445	1.130	0.045	1.143
1999	17	1.013	7	0.0169	0.429	0.047	1.194
2048	17	1.038	32	0.008	0.203	0.047	1.194
2048	17	1.038	512	0.002	0.051	0.049	1.245
2052	17	1.040	1	0.0453	1.151	0.045	1.143
2426	16	1.229	19	0.0113	0.287	0.061	1.549
2521	16	1.277	50	0.0071	0.180	0.059	1.499
2540	16	1.287	16	0.0126	0.320	0.059	1.499
2580	16	1.307	65	0.0063	0.160	0.059	1.499
2581	16	1.308	1	0.0508	1.290	0.051	1.295
2600	16	1.317	26	0.01	0.254	0.061	1.549
2625	16	1.330	105	0.005	0.127	0.059	1.499
2800	16	1.419	7	0.02	0.508	0.061	1.549
2942	15.5	1.491	7	0.0205	0.521	0.059	1.499
2948	15.5	1.494	1	0.0543	1.379	0.054	1.372
3000	15.5	1.520	30	0.01	0.254	0.059	1.499
3073	15.5	1.557	392	0.0028	0.071	0.061	1.549
3260	15	1.652	1	0.0571	1.450	0.057	1.448
3831	14	1.941	19	0.0142	0.361	0.076	1.930
3899	14	1.976	7	0.0236	0.599	0.071	1.803
4079	14	2.067	37	0.0105	0.267	0.073	1.854
4099	14	2.077	7	0.0242	0.615	0.076	1.930
4100	14	2.077	41	0.01	0.254	0.077	1.956
4106	14	2.081	19	0.0147	0.373	0.076	1.930
4109	14	2.082	1	0.0641	1.628	0.064	1.626
4128	14	2.092	26	0.0126	0.320	0.075	1.905
4167	14	2.111	105	0.0063	0.160	0.073	1.854
4234	14	2.145	84	0.0071	0.180	0.074	1.880
4802	13.5	2.433	50	0.0098	0.249	0.087	2.210
4842	13.5	2.453	7	0.0263	0.668	0.079	2.007
4914	13.5	2.490	1	0.0701	1.781	0.07	1.778
5184	13	2.627	1	0.072	1.829	0.072	1.829
6088	12	3.085	19	0.0179	0.455	0.096	2.438
6343	12	3.214	165	0.0062	0.157	0.095	2.413
6475	12	3.281	259	0.005	0.127	0.105	2.667
6500	12	3.294	65	0.01	0.254	0.096	2.438
6503	12	3.295	19	0.0185	0.470	0.092	2.337
6509	12	3.298	41	0.0126	0.320	0.094	2.388
6512	12	3.300	7	0.0305	0.775	0.086	2.184
6529	12	3.308	1	0.0808	2.052	0.081	2.057
6545	12	3.316	37	0.0133	0.338	0.093	2.362
6654	12	3.372	84	0.0089	0.226	0.094	2.388
6946	11.5	3.520	7	0.0315	0.800	0.094	2.388
7856	11.5	3.981	7	0.0335	0.851	0.1	2.540
7985	11.5	4.046	19	0.0205	0.521	0.101	2.565
8064	11.5	4.086	56	0.012	0.305	0.102	2.591
8226	11	4.168	1	0.0907	2.304	0.091	2.311
9072	10	4.597	7	0.036	0.914	0.096	2.438
9472	10	4.799	37	0.016	0.406	0.109	2.769
10080	10	5.108	1	0.1004	2.550	0.1	2.540
10319	10	5.229	37	0.0167	0.424	0.109	2.769
10319	10	5.229	65	0.0126	0.320	0.118	2.997
10365	10	5.252	41	0.0159	0.404	0.122	3.099
10376	10	5.258	7	0.0385	0.978	0.096	2.438
10384	10	5.262	1	0.1019	2.588	0.102	2.591
10404	10	5.272	19	0.0234	0.594	0.117	2.972
10500	10	5.320	105	0.01	0.254	0.116	2.946
10867	10	5.506	7	0.0394	1.001	0.118	2.997
11696	10	5.926	84	0.0118	0.300	0.13	3.302
11710	10	5.933	7	0.0409	1.039	0.128	3.251
11816	10	5.987	1	0.1087	2.761	0.109	2.769
12066	10	6.114	19	0.0252	0.640	0.126	3.200
13087	9	6.5	1	0.1144	2.91	0.114	2.90
13125	9	7	525	.0050	0.13	0.140	3.56
14175	8	7	7	.0450	1.14	0.146	3.71
14368	8	7.5	19	.0275	0.70	0.145	3.68
15595	8	8	7	.0472	1.20	0.142	3.60
15665	8	8	50	.0177	0.45	0.146	3.70

Table listing: Circular Mil Area for common wire sizes (Continued)

**Wire Sizes in AWG
and mm² to CMA**

Note: The following tables are applicable to single and multiple strand, round, conductors only.

CMA	Nominal Wire Size		No.	Strands		Approximate Conductor Diameter	
	AWG	mm ²		Diameter		Inch	mm
				Inch	mm		
16387	8	8	133	.0111	0.28	0.167	4.24
16473	8	8	37	.0211	0.54	0.150	3.81
16512	8	8	1	.1285	3.26	0.129	3.26
16533	8	8	7	.0486	1.23	0.146	3.71
16535	8	8	19	.0295	0.75	0.148	3.76
16589	8	8	49	.0184	0.47	0.150	3.81
16983	8	8.5	133	.0113	0.29	0.167	4.24
18853	7	10	19	.0315	0.80	0.161	4.10
19719	7	10	80	.0157	0.40	0.165	4.20
19737	7	10	7	.0531	1.35	0.159	4.05
19768	7	10	1	.1406	3.57	0.141	3.57
19796	7	10	49	.0201	0.51	0.161	4.10
26179	6	13	37	.0266	0.68	0.174	4.42
26218	6	13	7	.0612	1.55	0.184	4.67
26244	6	13	1	.1620	4.11	0.162	4.11
26292	6	15	19	.0372	0.94	0.202	5.13
26818	6	14	133	.0142	0.36	0.210	5.33
27783	6	14	7	.0630	1.60	0.189	4.80
31057	5.5	16	126	.0157	0.400	0.209	5.30
31329	5.5	16	7	.0669	1.700	0.197	5.00
31400	5.5	16	1	.1772	4.500	0.177	4.50
32199	5	16	37	.0295	0.750	0.197	5.00
33088	5	15.5	1	.1819	4.620	0.182	4.62
40682	4.5	20	41	.0315	0.800	0.236	6.00
41616	4	21	1	.2040	5.182	0.204	5.18
41718	4	21	7	.0772	1.961	0.232	5.89
41771	4	21	37	.0336	0.853	0.240	6.10
41792	4	21	19	.0469	1.191	0.226	5.74
42615	4	21	133	.0179	0.455	0.272	6.90
43356	3.5	22	7	.0787	2.000	0.236	6.00
48312	3	25	196	.0157	0.400	0.260	6.60
48867	3	25	783	.0079	0.200	0.280	7.10
49745	3	25	7	.0843	2.140	0.253	6.42
50010	3	25	84	.0244	0.620	0.260	6.60
57205	2.5	34	7	.0904	2.296	0.292	7.42
57459	2.5	30	7	.0906	2.300	0.272	6.90
66049	2	34	1	.2570	6.528	0.257	6.53
66139	2	34	19	.0590	1.499	0.332	8.43
66500	2	35	665	.0100	0.254	0.345	8.76
66517	2	34	37	.0424	1.077	0.300	7.62
68031	2	35	276	.0157	0.400	0.307	7.80
68857	2	35	19	.0602	1.530	0.301	7.65
69088	2	35	1107	.0079	0.200	0.335	8.50
73400	1.5	38	7	.1024	2.600	0.307	7.80
81700	1	41	817	.0100	0.254	0.382	9.70
83600	1	42	836	.0100	0.254	0.386	9.80
84341	1	40	85	.0315	0.800	0.339	8.60
95509	0	50	19	.0709	1.800	0.354	9.00
97610	0	50	396	.0157	0.400	0.406	10.30
98409	0	50	702	.0118	0.300	0.370	9.40
104500	0	53	1045	.0100	0.254	0.431	10.95
106400	0	54	1064	.0100	0.254	0.435	11.05
117680	0	60	19	.0787	2.000	0.394	10.00
133000	00	67	1330	.0100	0.254	0.486	12.34
135023	00	70	19	.0843	2.140	0.421	10.70
139101	00	70	999	.0118	0.300	0.488	12.40
139712	00	70	360	.0197	0.500	0.488	12.40
155959	000	80	19	.0906	2.300	0.453	11.50
167200	000	85	1672	.0100	0.254	0.545	13.84
184343	000	95	475	.0197	0.500	0.571	14.50
185468	000	95	1332	.0118	0.300	0.571	14.50
186972	000	95	19	.0992	2.520	0.496	12.60
199229	0000	100	19	.1024	2.600	0.512	13.00
210900	0000	105	2109	.0100	0.254	0.635	16.13
235959	0000	120	608	.0197	0.500	0.630	16.00
236208	0000	120	37	.0799	2.030	0.571	14.50
247791	0000	125	19	.1142	2.900	0.571	14.50
249856	250	127	61	.0640	1.623	0.576	14.63
249864	250	127	91	.0524	1.331	0.576	14.63
249870	250	127	12	.1443	3.665	0.600	15.24
249966	250	127	19	.1147	2.913	0.574	14.58
250003	250	127	37	.0822	2.088	0.575	14.61
299700	300	152	37	.0900	2.29	0.630	16.0
299755	300	152	61	.0701	1.781	0.631	16.03
299823	300	152	91	.0574	1.458	0.631	16.03

Table listing: Circular Mil Area for common wire sizes (Continued)

Wire Sizes in AWG and mm² to CMA

Note: The following tables are applicable to single and multiple strand, round, conductors only.

CMA	Nominal Wire Size		No.	Strands		Approximate Conductor Diameter	
	AWG	mm ²		Diameter		Inch	mm
299947	300	152	12	.1581	4.016	0.657	14.66
300209	300	152	19	.1257	3.193	0.629	15.98
349560	350	177	61	.0757	1.923	0.681	17.3
349804	350	177	91	.0620	1.575	0.682	17.32
349875	350	177	19	.1357	3.447	0.679	17.25
350072	350	177	12	.1708	4.338	0.710	18.03
350290	350	177	37	.0973	2.471	0.681	17.3
400026	400	203	19	.1451	3.686	0.726	18.44
400192	400	203	37	.1040	2.642	0.728	18.49
400221	400	203	61	.0810	2.057	0.729	18.49
400008	400	203	91	.0663	1.684	0.729	18.49
499868	500	253	19	.1622	4.12	0.811	20.6
499590	500	253	37	.1162	2.951	0.813	20.65
499605	500	253	61	.0905	2.299	0.815	20.7
499664	500	253	91	.0741	1.882	0.815	20.7
599401	600	304	127	.0687	1.745	0.893	22.68
599596	600	304	37	.1273	3.233	0.891	22.63
600003	600	304	91	.0812	2.062	0.893	22.68
600279	600	304	61	.0992	2.52	0.893	22.68
699216	700	355	127	.0742	1.885	0.965	24.51
699531	700	355	37	.1375	3.493	0.963	24.46
699695	700	355	61	.1071	2.72	0.964	24.49
699907	700	355	91	.0877	2.228	0.965	24.51
750227	750	405	61	.1109	2.817	0.998	25.35
750262	750	405	91	.0908	2.306	0.999	25.37
750277	750	405	37	.1424	3.617	0.997	25.32
749096	750	405	127	.0768	1.951	0.998	25.35
799533	800	456	37	.1470	3.734	1.029	26.14
799725	800	456	61	.1145	2.908	1.031	26.19
800654	800	456	127	.0794	2.017	1.032	26.21
800658	800	456	91	.0938	2.383	1.032	26.21
999197	1000	507	127	.0887	2.253	1.153	29.29
999424	1000	507	61	.1280	3.251	1.152	29.26
999457	1000	507	91	.1048	2.662	1.153	29.29
1000012	1000	507	37	.1644	4.176	1.151	29.24

Chart 2 (Solid Wire) U.S. Customary Dimensions

Use to convert wire size to inches of diameter and CMA. To read mils direct, move decimal point three places to the right.

AWG	Dia. inches	CMA*
4/0	.460	212,000
3/0	.410	168,000
2/0	.365	133,000
1/0	.325	106,000
1	.289	83,700
2	.258	66,400
3	.229	52,600
4	.204	41,700
5	.182	33,100
6	.162	26,300
7	.144	20,800
8	.128	16,500
9	.114	13,100
10	.102	10,400
11	.091	8,230
12	.081	6,530
13	.072	5,180
14	.064	4,110
15	.057	3,260
16	.051	2,580
17	.045	2,050
18	.040	1,620

AWG	Dia. inches	CMA*
19	.036	1,290
20	.032	1,020
21	.0285	810
22	.0253	642
23	.0226	509
24	.0201	404
25	.0179	320
26	.0159	254
27	.0142	202
28	.0126	160
29	.0113	127
30	.0100	101
31	.0089	79.7
32	.0080	63.2
33	.0071	50.1
34	.0063	39.8
35	.0056	31.5
36	.0050	25.0
37	.0045	19.8
38	.0040	15.7
39	.0035	12.5
40	.0031	9.9

Metric Dimensions

Use to convert wire size to millimeters of diameter and CMA.

mm ²	Dia. mm	CMA*
113.1	12	223,000
78.54	10	155,000
63.62	9	125,000
50.27	8	99,200
38.48	7	75,900
33.18	6.5	65,500
28.27	6	55,800
23.76	5.5	46,900
19.64	5	38,800
15.90	4.5	31,400
12.57	4	24,800
9.621	3.5	19,000
8.042	3.2	15,900
6.605	2.9	13,000
5.309	2.6	10,500
4.155	2.3	8,200
3.142	2	6,200
2.545	1.8	5,020
2.011	1.6	3,970
1.539	1.4	3,040
1.131	1.2	2,230
0.7854	1	1,550

mm ²	Dia. mm	CMA*
0.6362	0.9	1,260
0.5027	0.8	992
0.3848	0.7	759
0.3318	0.65	655
0.2827	0.6	558
0.2376	0.55	469
0.1964	0.5	338
0.159	0.45	314
0.1257	0.4	248
0.09621	0.35	190
0.08042	0.32	159
0.06605	0.29	130
0.05309	0.26	105
0.04155	0.23	82
0.03142	0.2	62
0.02545	0.18	50.2
0.02011	0.16	39.7
0.01539	0.14	30.4
0.01131	0.12	22.3
0.00785	0.1	15.5

*Nominal CMA has been "rounded off" for ease of calculation when using multiple wires in one termination.

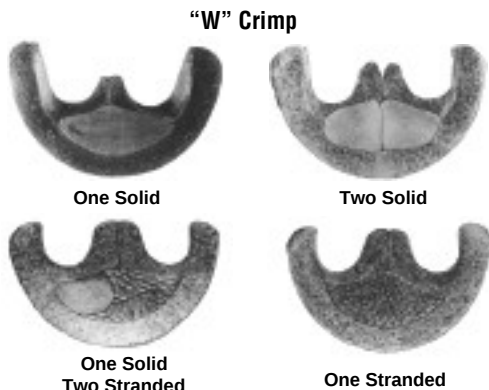
The SOLISTRAND Terminal

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire, irregular shaped conductors, and combinations of these — still retaining the superior performance characteristics of single-purpose terminals and splices. Because AMP matches the terminal to the tool each termination is uniformly perfect, making quality control easy and performance consistent. Corrosion resistance, vibration resistance and tensile strength of these terminals and splices are well within the limits of commercial and military specifications. The SOLISTRAND line includes parallel and butt splices, and flag, ring, spade, hooked, and flanged tongue terminals in sizes from 26 AWG [0.1 mm²] through 600 MCM [304 mm²].

The Crimp

The “W” Crimp is one of several time-proven crimp types developed by AMP. It is not just a “kink” in a metal barrel; not something pinched over electrical wire ends. The “W” Crimp is actually two longitudinal crimps applied with precisely controlled pressure so that the conductor within the barrel flows together into the dimples or serrations of the terminal barrel creating one homogeneous mass of metal. The two indents also help to center conductors within the barrel for uniform crimping of the barrel around the wire. Furthermore, the “W” Crimp permits the use of a shorter terminal barrel, an excellent feature for confined area termination.

The “W” Crimp creates terminations of optimum electrical properties and is completely reliable, giving long service in punishing environments.



BRAZED SEAM. The barrel is completely closed and seam is brazed for uniform metal strength around the entire barrel area.

BASIC TERMINAL MATERIAL. The basic terminal is constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-103 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes.

BELL MOUTH. Bell shape of barrel entrance makes insertion of wires easier.

DIMPLES OR SERRATIONS. Inner surface either dimpled or serrated for optimum tensile strength and maximum electrical contact area after crimping.

SOLISTRAND Terminals meet or exceed the requirements of MIL-T-7928, Type I, Class 1 and 2.

Temperature Rating: 170°C Max.

AMP SOLISTRAND Terminals and Splices (Use SOLISTRAND Tooling)

AMP Inc. Wire Size	 Listed File No. E13288	 LR 7189 Certified
22–16 Solid or Stranded	22–16 Solid or Stranded	22–16 Solid or Stranded
16–14 Solid or Stranded	16–14 Solid or Stranded	16–14 Solid or Stranded
16–14 Heavy Duty Solid or Stranded	16–14 Heavy Duty Stranded	16–14 Heavy Duty Solid or Stranded
14–12 Solid or Stranded	14–12 Stranded	14–12 Solid or Stranded
12–10 Solid or Stranded	12–10 Stranded	12–10 Solid or Stranded
8 thru 600 MCM Solid or Stranded	8 thru 600 MCM Stranded	8 thru 600 MCM Solid or Stranded

Note: 22-16 terminals and splices are stamped 22-18 in accordance with MIL-T-7928. Commercial wire range is 22-16.

DANGER: Not to be used on aluminum wire — may cause equipment failure leading to serious injury or death.

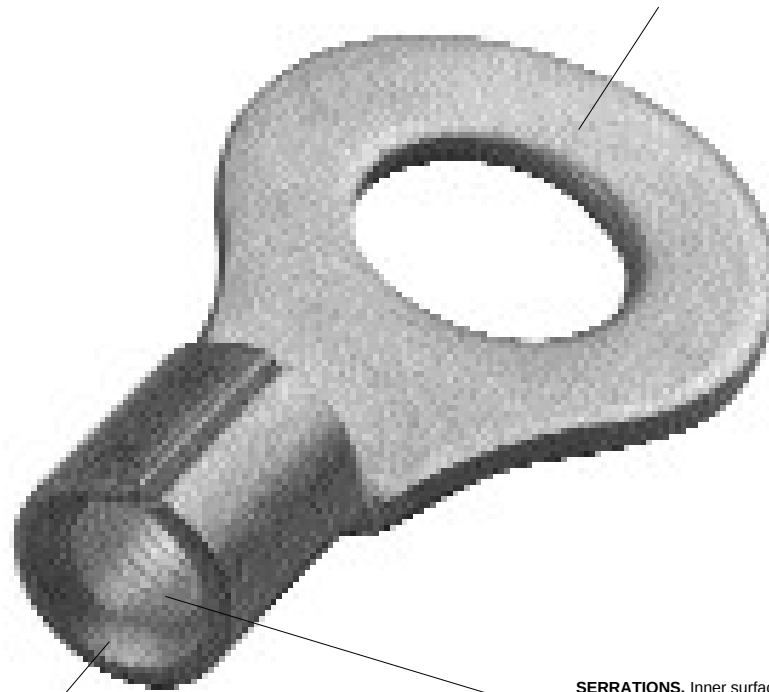
The Budget Terminal

Budget Terminals and splices are primarily the same as SOLISTRAND products except for the absence of the brazed seam in the wire barrel. This terminal is ideal for applications where extreme vibration and tension on the wire are not present. These terminals and splices fulfill the need for an economical and electrically superior termination through the use of high grade materials, long plating experience and a proven crimp.

One of the most desirable features of this terminal and splice is the "F" Crimp. This proven crimp configuration rolls the open seam barrel into the conductor presenting a large surface to the inside of the terminal barrel assuring optimum electrical performance.

The Budget line includes butt splices, ring, rectangular, flanged spade, hooked, and spring spade tongue terminals in sizes from 26 AWG [0.1 mm²] through 10 AWG [6.64 mm²].

BASIC TERMINAL MATERIAL. The basic terminal is constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-103 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes.



BELL MOUTH. Bell shape of barrel entrance makes insertion of wires easier.

SERRATIONS. Inner surface serrated for optimum tensile strength and maximum electrical contact area after crimping.

Temperature Rating: 170°C Max.

AMP Budget Terminals and Splices (Use Budget Tooling)

Wire Size	 Listed File No. E13288
22-16 Stranded	22-16 Stranded
16-14 Stranded	16-14 Stranded
12-10 Stranded	12-10 Stranded

Note: 22-16 terminals and splices are stamped 22-18 in accordance with MIL-T-7928. Commercial wire range is 22-16.

DIAMOND GRIP Terminal

The DIAMOND GRIP product line of terminals and splices is designed for completely uniform reliability under the most critical conditions of vibration, thermal shock, corrosion, tension and current overload. AMP's mated tool/terminal concept represents a total approach to wire termination and takes into account all the factors of circuit termination.

The uniformity of appearance of AMP terminations is repeated by their uniformity in performance—made possible by designing the terminal and the tooling to match precisely. This promotes fast and easy crimping and assures precise crimping pressure for every wire size, regardless of the skill of the operator. The result is the best circuit termination at the lowest applied cost. And this is true for all terminations from first to last, week after week, month after month.

The Crimp

After the wire is inserted into the barrel, the matching dies in the AMP tool close over the barrel, exerting great pressure. This causes the wire strands to flow into the serrations of the terminal barrel as it is compressed around them, forming a homogenous mass of the strands and terminal barrel. This maximum contact assures optimum conductivity of the termination.

COPPER SLEEVE. The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor.

SERRATIONS. Serrations inside the barrel provide maximum contact and tensile strength after crimping.

BELL MOUTH. Assures easy wire insertion.

BASIC TERMINAL MATERIAL. The basic terminal is constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes.

"V" NOTCHES. These lock the wire insulation against vibration and pullout.

Temperature Rating: 170°C Max.

DIAMOND GRIP Terminals and Splices (Use DIAMOND GRIP Tooling)

AMP Wire Range	 Listed	 LR 7189 Certified
22-16	22-16 Stranded	22-16 Stranded
16-14	16-14 Stranded	16-14 Stranded
16-14 HD	16-14 HD Stranded	—
12-10	12-10 Stranded	12-10 Stranded

Terminal Stud Hole Size

Use to Select Proper Size Terminal

The chart shows sizes and dimensions of various studs and the corresponding terminal stud hole sizes used with AMP devices. For example, with stud #5 (.125 [3.18] Diameter), use AMP device listed for #5 stud (.132 [3.35] Hole Diameter). Terminal stud hole sizes may easily be checked by fitting sample terminal to black circle.

Stud Size		Stud Dia.		Typical Terminal Stud Hole Diameter
U.S. Cust.	Metric			
#0	—	.060 1.52	●	.067 ± .003 1.70 ± 0.08
#1	—	.073 1.85	●	.080 ± .003 2.03 ± 0.08
#2	M2	.086 2.18	●	.093 ± .003 2.36 ± 0.08
#3	—	.099 2.51	●	Not Available
#4	—	.112 2.84	●	.119 ± .003 3.02 ± 0.08
#5	M3	.125 3.18	●	.132 ± .003 3.35 ± 0.08
#6	M3.5	.138 3.51	●	.145 ± .003 3.68 ± 0.08
#8	M4	.164 4.17	●	.171 ± .003 4.34 ± 0.08
#10	—	.190 4.83	●	.197 ± .003 5.00 ± 0.08
#12	—	.216 5.49	●	.223 ± .003 5.66 ± 0.08
#14	—	.242 6.15	●	.250 ± .003 6.35 ± 0.08
1/4"	M6	.250 6.35	●	.265 ± .005 6.73 ± 0.13
5/16"	M8	.312 7.92	●	.328 ± .005 8.33 ± 0.13
3/8"	—	.375 9.53	●	.390 ± .005 9.91 ± 0.13

Stud Size		Stud Dia.		Typical Terminal Stud Hole Diameter
U.S. Cust.	Metric			
7/16"	—	.437 11.10	●	.453 ± .005 11.51 ± 0.13
1/2"	M12	.500 12.70	●	.515 ± .005 13.08 ± 0.13
5/8"	M16	.625 15.88	●	.656 ± .005 16.66 ± 0.13
3/4"	—	.750 19.05	●	.781 ± .005 19.84 ± 0.13
7/8"	M22	.875 22.23	●	.906 ± .005 23.01 ± 0.13
1"	—	1.000 25.40	●	1.031 ± .005 26.19 ± 0.13

Ring Tongue Terminals

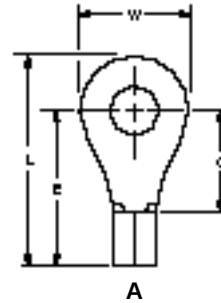
Wire Size Range

AWG 26 to 16,
CMA 202 to 3,260
[0.1 to 1.65 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
			L Max.	E Max.	C Min.	W		Solistrand	Budget	Solistrand	Budget
26–22 202–810 [0.1–0.41]	0	A	.329 8.36	.256 6.50	.121 3.07	.140 3.56	.020 0.51	—	.035 0.89	—	31423
		A	.329 8.36	.256 6.50	.121 3.07	.140 3.56	.020 0.51	—	.035 0.89	—	31425 2-31425-2
	2 M2	A	.450 11.43	.346 8.79	.211 5.36	.203 5.16	.020 0.51	—	.035 0.89	—	33695
		A	.419 10.64	.346 8.79	.211 5.36	.140 3.56	.020 0.51	.031 0.79	.035 0.89	50334*	322771
	4	A	.450 11.43	.346 8.79	.211 5.36	.203 5.16	.020 0.51	—	.035 0.89	—	31428
		A	.450 11.43	.346 8.79	.211 5.36	.203 5.16	.020 0.51	—	.035 0.89	—	31430
	6 M3.5	A	.544 13.82	.416 10.57	.281 7.14	.250 6.35	.020 0.51	.031 0.79	.035 0.89	331401 1-331401-1	32858
		A	.544 13.82	.416 10.57	.281 7.14	.250 6.35	.020 0.51	—	.035 0.89	—	32859
	10	A	.544 13.82	.416 10.57	.281 7.14	.250 6.35	.020 0.51	—	.035 0.89	—	32860
		A	.544 13.82	.416 10.57	.281 7.14	.250 6.35	.020 0.51	—	.035 0.89	—	32860
22–16 509–3,260 [0.26–1.65]	1	A	.449 11.40	.337 8.56	.156 3.96	.218 5.54	.033 0.84	—	.065 1.65	—	31087
		A	.449 11.40	.337 8.56	.156 3.96	.218 5.54	.033 0.84	.061 1.55	.065 1.65	34103 2-34103-1	31088
	2 M2	A	.446 11.33	.353 8.97	.172 4.37	.182 4.62	.033 0.84	.061 1.55	.065 1.65	322927	320677
		A	.449 11.40	.337 8.56	.156 3.96	.218 5.54	.033 0.84	.061 1.55	.065 1.65	34104* 2-34104-6	31089 3-31089-6
	4	A	.446 11.33	.353 8.97	.172 4.37	.182 4.62	.033 0.84	.061 1.55	.065 1.65	36467*	36189 2-326850-1
		A	.621 15.77	.493 12.52	.312 7.92	.250 6.35	.033 0.84	.061 1.55	.065 1.65	323096 2-323096-2	322418
	5 M3	A	.449 11.40	.337 8.56	.156 3.96	.218 5.54	.033 0.84	—	.065 1.65	—	31090 2-31090-1
		A	.449 11.40	.337 8.56	.156 3.96	.218 5.54	.033 0.84	.061 1.55	.065 1.65	34105* 2-34105-2	31091
	6 M3.5	A	.528 13.41	.416 10.57	.156 3.96	.218 5.54	.033 0.84	.061 1.55	.065 1.65	34194	31101
		A	.574 14.58	.436 11.07	.250 6.35	.281 7.14	.033 0.84	.061 1.55	.065 1.65	34107* 2-34107-2	31264
	8 M4	A	.621 15.77	.462 11.73	.281 7.14	.312 7.92	.033 0.84	.061 1.55	.065 1.65	34110* 2-34110-3	30691* 1-30691-1
		A	.653 16.59	.478 12.14	.297 7.54	.344 8.74	.033 0.84	—	.065 1.65	—	32822
	8 M4	A	.621 15.77	.462 11.73	.281 7.14	.312 7.92	.033 0.84	.061 1.55	.065 1.65	34111* 2-34111-3	30692
		A	.574 14.58	.436 11.07	.250 6.35	.281 7.14	.033 0.84	.061 1.55	.065 1.65	34108* 2-34108-2	31265*
	8 M4	A	.653 16.59	.478 12.14	.297 7.54	.344 8.74	.033 0.84	.061 1.55	.065 1.65	323086	32823
		A	.653 16.59	.478 12.14	.297 7.54	.344 8.74	.033 0.84	.061 1.55	.065 1.65	323086	32823

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Ring Tongue Terminals (Continued)

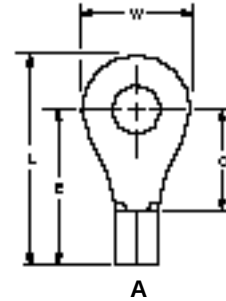
Wire Size Range

AWG 22 to 14,
CMA 509 to 5,180
[0.26 to 2.62 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
			L Max.	E Max.	C Min.	W		Solistrand	Budget	Solistrand	Budget
22-16 509-3,260 [0.26-1.65]	10	A	.621 15.77	.462 11.73	.281 7.14	.312 7.92	.033 0.84	.061 1.55	.065 1.65	34112* 2-34112-2	30693* 3-30693-7
		A	.574 14.58	.436 11.07	.250 6.35	.281 7.14	.033 0.84	.061 1.55	.065 1.65	34109* 2-34109-2	31266
		A	.653 16.59	.478 12.14	.297 7.54	.344 8.74	.033 0.84	.061 1.55	.065 1.65	323087*	32824
	12	A	.621 15.77	.462 11.73	.281 7.14	.312 7.92	.033 0.84	—	.065 1.65	—	30694 2-30694-1
		A	.856 21.74	.618 15.70	.437 11.10	.469 11.91	.033 0.84	.061 1.55	.065 1.65	34113* 2-34113-2	31172
	5/16 M8	A	.856 21.74	.618 15.70	.437 11.10	.469 11.91	.033 0.84	.061 1.55	.065 1.65	34114* 2-34114-2	31173 3-31173-3
		A	.995 25.27	.727 18.47	.546 13.87	.531 13.49	.033 0.84	—	.065 1.65	—	324124
	3/8	A	.995 25.27	.727 18.47	.546 13.87	.531 13.49	.033 0.84	.061 1.55	.065 1.65	34115* 2-34115-2	31498
		A	1.070 27.18	.711 18.06	.530 13.46	.713 18.11	.033 0.84	.061 1.55	.065 1.65	329966*	328970
	1/2 M12	A	1.070 27.18	.711 18.06	.530 13.46	.713 18.11	.033 0.84	.061 1.55	.065 1.65	329966*	328970
16-14 2,050-5,180 [1.04-2.62]	2 M2	A	.480 12.19	.352 8.94	.171 4.34	.250 6.35	.033 0.84	—	.089 2.26	—	321007
		A	.445 11.30	.352 8.94	.171 4.34	.180 4.57	.033 0.84	.085 2.16	.089 2.26	328377	326854
	4	A	.480 12.19	.352 8.94	.171 4.34	.250 6.35	.033 0.84	.085 2.16	.089 2.26	34119* 2-34119-1	32185
		A	.636 16.15	.462 11.73	.281 7.14	.343 8.71	.033 0.84	.085 2.16	.089 2.26	34121* 2-34121-1	30695
	6 M3.5	A	.480 12.19	.352 8.94	.171 4.34	.250 6.35	.033 0.84	.085 2.16	.089 2.26	34120* 2-34120-1	32186*
		A	.590 14.99	.431 10.95	.250 6.35	.312 7.92	.033 0.84	.085 2.16	.089 2.26	321684* 2-321684-1	321683
		A	.636 16.15	.462 11.73	.281 7.14	.343 8.71	.033 0.84	.085 2.16	.089 2.26	34122* 2-34122-1	30696*
	8 M4	A	.590 14.99	.431 10.95	.250 6.35	.312 7.92	.033 0.84	.085 2.16	.089 2.26	324955* 2-324955-1	322235 1-322235-1
		A	.621 15.77	.462 11.73	.281 7.14	.312 7.92	.033 0.84	—	.089 2.26	—	51872-5
	10	A	.636 16.15	.462 11.73	.281 7.14	.343 8.71	.033 0.84	.085 2.16	.089 2.26	34123* 2-34123-1	30697*
		A	.669 16.99	.510 12.95	.250 6.35	.312 7.92	.033 0.84	.085 2.16	.089 2.26	320093 2-320093-1	31049
		A	.855 21.72	.618 15.70	.437 11.10	.469 11.91	.033 0.84	—	.089 2.26	—	31163
	12	A	.730 18.54	.493 12.52	.312 7.92	.468 11.89	.033 0.84	—	.089 2.26	—	34896
		A	.730 18.54	.493 12.52	.312 7.92	.468 11.89	.033 0.84	—	.089 2.26	—	34896

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Ring Tongue Terminals (Continued)

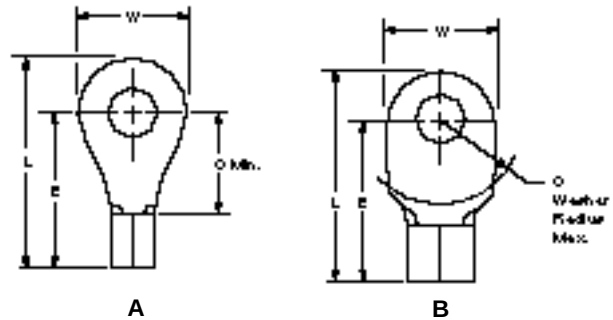
Wire Size Range

AWG 16 to 10,
CMA 2,050 to 13,100
[1.04 to 6.64 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
			L Max.	E Max.	C	W		Solistrand	Budget	Solistrand	Budget
16-14 2,050-5,180 [1.04-2.62]	1/4 M6	A	.855 21.72	.618 15.70	.437 11.10	.469 11.91	.033 0.84	.085 2.16	.089 2.26	34124* 2-34124-1	31164
	5/16 M8	A	.855 21.72	.618 15.70	.437 11.10	.469 11.91	.033 0.84	.085 2.16	.089 2.26	34125* 2-34125-6	31165
	3/8	A	.995 25.27	.727 18.47	.546 13.87	.531 13.49	.033 0.84	.085 2.16	.089 2.26	34126* 2-34126-2	31499
	1/2	A	1.070 27.18	.711 18.06	.530 13.46	.713 18.11	.033 0.84	—	.089 2.26	—	328971
	M12	A	1.184 30.07	.806 20.47	.625 15.88	.750 19.05	.033 0.84	.085 2.16	.089 2.26	50981	50982
14-12 3,260-8,230 [1.65-4.17]	8 M4	B	.685 17.40	.526 13.36	.250 6.35	.312 7.92	.042 1.07	.098 2.49	—	321827	—
		B	.739 18.77	.526 13.36	.250 6.35	.421 10.69	.042 1.07	.098 2.49	—	34484 1-34484-0	—
	10	B	.685 17.40	.526 13.36	.250 6.35	.312 7.92	.042 1.07	.098 2.49	—	321828 1-321828-0	—
	1/4 M6	B	.739 18.77	.526 13.36	.250 6.35	.421 10.69	.042 1.07	.098 2.49	—	34487	—
	3/8	B	1.120 28.45	.774 19.66	.437 11.10	.687 17.45	.042 1.07	.098 2.49	—	34486	—
12-10 5,180-13,100 [2.62-6.64]	4	A	.630 16.00	.487 12.37	.219 5.56	.281 7.14	.042 1.07	.129 3.28	.134 3.40	322447	34891
		A	.630 16.00	.487 12.37	.219 5.56	.281 7.14	.042 1.07	.129 3.28	.134 3.40	35476* 2-35476-1	34892
	6 M3.5	A	.729 18.52	.570 14.48	.302 7.67	.312 7.92	.042 1.07	.129 3.28	.134 3.40	324911	324910
		A	.765 19.43	.575 14.61	.302 7.67	.375 9.53	.042 1.07	.129 3.28	.134 3.40	33456 2-33456-1	31112
	8 M4	A	.708 17.98	.549 13.94	.281 7.14	.312 7.92	.042 1.07	.129 3.28	.134 3.40	322454*	34404*
		A	.765 19.43	.575 14.61	.302 7.67	.375 9.53	.042 1.07	.129 3.28	.134 3.40	32994* 2-32994-1	31113
		A	.723 18.36	.549 13.94	.281 7.14	.343 8.71	.042 1.07	.129 3.28	.134 3.40	322455 2-322455-1	32882
		A	.765 19.43	.575 14.61	.302 7.67	.375 9.53	.042 1.07	.129 3.28	.134 3.40	33457* 2-33457-2	31114*
	10	A	.808 20.52	.618 15.70	.343 8.71	.375 9.53	.042 1.07	.129 3.28	.134 3.40	31805	321829
		A	.865 21.97	.612 15.54	.344 8.74	.500 12.70	.042 1.07	.129 3.28	.134 3.40	35771* 2-35771-1	34964
		A	1.004 25.50	.736 18.69	.468 11.89	.531 13.49	.042 1.07	.129 3.28	.134 3.40	36451	31120
	1/4 M6	A	.865 21.97	.612 15.54	.344 8.74	.500 12.70	.042 1.07	.129 3.28	.134 3.40	35772* 2-35772-1	34965
		A	1.004 25.50	.736 18.69	.468 11.89	.531 13.49	.042 1.07	.129 3.28	.134 3.40	33458* 2-33458-3	31122*
	5/16 M8	A	.865 21.97	.612 15.54	.344 8.74	.500 12.70	.042 1.07	—	.134 3.40	—	34966
		A	1.004 25.50	.736 18.69	.468 11.89	.531 13.49	.042 1.07	.129 3.28	.134 3.40	33459* 2-33459-6	31123

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Ring Tongue Terminals (Continued)

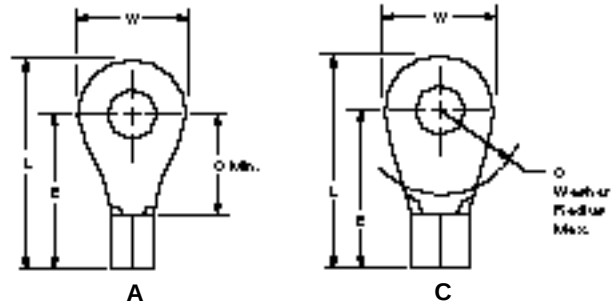
Wire Size Range

AWG 12 to 8,
CMA 5,180 to 20,800
[2.62 to 10.5 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
			L Max.	E Max.	C	W		Solistrand	Budget	Solistrand	Budget
12-10 5,180-13,100 [2.62-6.64]	3/8	A	1.098 27.89	.799 20.29	.531 13.49	.593 15.06	.042 1.07	.129 3.28	.134 3.40	33220* 1-33220-2 ³	30972
		A	1.271 32.28	.893 22.68	.625 15.88	.750 19.05	.042 1.07	.129 3.28	.134 3.40	322242	34833
	1/2 M12	A	1.102 27.99	.742 18.85	.474 12.04	.715 18.16	.042 1.07	—	.134 3.40	—	52269-1
		A	1.271 32.28	.893 22.68	.625 15.88	.750 19.05	.042 1.07	.129 3.28	.134 3.40	35135 2-35135-2 ³	34834
		A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.042 1.07	.129 3.28	.134 3.40	320763	320760
		A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.042 1.07	.129 3.28	.134 3.40	320764	320761
	5/8 M16	A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.042 1.07	.129 3.28	.134 3.40	320765	320762
	3/4	A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.042 1.07	.129 3.28	.134 3.40	320765-1	—
	7/8 M22	A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.042 1.07	.129 3.28	—	1-320765-0	—
	1	A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.042 1.07	.129 3.28	—	1-320765-0	—
8 13,100-20,800 [6.64-10.5]	8 M4	C	.949 24.10	.743 18.87	.359 9.12	.406 10.31	.051 1.30	.172 4.37	—	324061*	—
		C	.933 23.70	.696 17.68	.359 9.12	.469 11.91	.051 1.30	.172 4.37	—	32996*	—
	10	C	.933 23.70	.696 17.68	.359 9.12	.469 11.91	.051 1.30	.172 4.37	—	33460* 2-33460-2* ¹ 2-33460-3* ²	—
		C	.949 24.10	.743 18.87	.359 9.12	.406 10.31	.051 1.30	.172 4.37	—	31807 2-31807-2* ²	—
	1/4 M6	C	.933 23.70	.696 17.68	.359 9.12	.469 11.91	.051 1.30	.172 4.37	—	33461* 2-33461-2* ¹ 2-33461-3* ²	—
		A	1.168 29.67	.868 22.05	.531 13.49	.594 15.09	.051 1.30	.172 4.37	—	35247*	—
	5/16 M8	A	1.168 29.67	.868 22.05	.531 13.49	.594 15.09	.051 1.30	.172 4.37	—	33462* 2-33462-1 ²	—
		A	1.074 27.28	.790 20.07	.406 10.31	.562 14.27	.051 1.30	.172 4.37	—	31808*	—
		C	.933 23.70	.696 17.68	.359 9.12	.469 11.91	.051 1.30	.172 4.37	—	55991-1 55991-2	—
		A	1.168 29.67	.868 22.05	.531 13.49	.594 15.09	.051 1.30	.172 4.37	—	33463*	—
	3/8	A	1.965 49.91	1.337 33.96	1.000 25.40	1.250 31.75	.051 1.30	.172 4.37	—	36499	—
		A	1.965 49.91	1.337 33.96	1.000 25.40	1.250 31.75	.051 1.30	.172 4.37	—	35664*	—
	1/2 M12	A	1.965 49.91	1.337 33.96	1.000 25.40	1.250 31.75	.051 1.30	.172 4.37	—	35665	—
	5/8 M16	A	1.965 49.91	1.337 33.96	1.000 25.40	1.250 31.75	.051 1.30	.172 4.37	—	35666	—
	3/4	A	1.965 49.91	1.337 33.96	1.000 25.40	1.250 31.75	.051 1.30	.172 4.37	—	35666	—

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

¹Requires a 69875 standard TAPETRONIC machine for application.

²Requires a 68250-1 Heavy Duty TAPETRONIC machine for application.

³Requires a 68250-1 Heavy Duty TAPETRONIC and 68242-2 die set for application.

Ring Tongue Terminals (Continued)

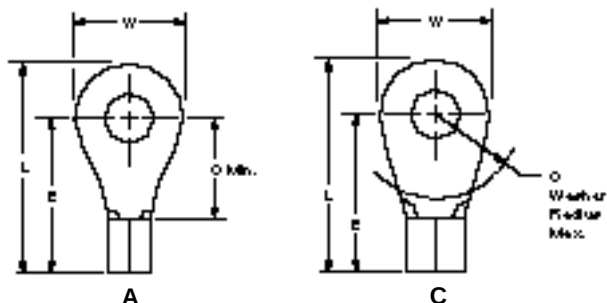
Wire Size Range

AWG 6 to 4,
CMA 20,800 to 52,600
[10.5 to 26.7 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	E Max.	C	W			
6 20,800–33,100 [10.5–16.8]	10	C	1.181 30.00	.931 23.65	.531 13.49	.406 10.31	.060 1.52	.232 5.89	52197* 52197-1
		C	1.181 30.00	.984 24.99	.584 14.83	.406 10.31	.060 1.52	.232 5.89	53106-1
		C	1.246 31.65	.931 23.65	.531 13.49	.625 15.88	.060 1.52	.232 5.89	33464*
		C	1.168 29.67	.931 23.65	.531 13.49	.468 11.89	.060 1.52	.232 5.89	321298* 2-321298-6
	1/4 M6	C	1.246 31.65	.931 23.65	.531 13.49	.625 15.88	.060 1.52	.232 5.89	33465* 2-33465-1
		C	1.168 29.67	.931 23.65	.531 13.49	.468 11.89	.060 1.52	.232 5.89	321598* 2-321598-3
	5/16 M8	C	1.246 31.65	.931 23.65	.531 13.49	.625 15.88	.060 1.52	.232 5.89	33466* 2-33466-3
		C	1.246 31.65	.931 23.65	.531 13.49	.625 15.88	.060 1.52	.232 5.89	33467* 2-33467-3
	3/8	A	2.033 51.64	1.400 35.56	1.000 25.40	1.250 31.75	.060 1.52	.232 5.89	36807
		C	1.246 31.65	.931 23.65	.531 13.49	.625 15.88	.060 1.52	.232 5.89	320745
	1/2 M12	C	1.840 46.74	1.400 35.56	1.000 25.40	.875 22.23	.060 1.52	.232 5.89	320344*
		A	2.033 51.64	1.400 35.56	1.000 25.40	1.250 31.75	.060 1.52	.232 5.89	36808
	5/8	A	2.033 51.64	1.400 35.56	1.000 25.40	1.250 31.75	.060 1.52	.232 5.89	36809
		A	2.033 51.64	1.400 35.56	1.000 25.40	1.250 31.75	.060 1.52	.232 5.89	36810
4 33,100–52,600 [16.8–26.7]	10	A	1.314 33.38	.978 24.84	.516 13.11	.656 16.66	.073 1.85	.296 7.52	33468*
		C	1.199 30.45	.946 24.03	.437 11.10	.500 12.70	.073 1.85	.280 7.11	33114
	1/4 M6	A	1.314 33.38	.978 24.84	.516 13.11	.656 16.66	.073 1.85	.296 7.52	33469*
		C	1.199 30.45	.946 24.03	.437 11.10	.500 12.70	.073 1.85	.280 7.11	2-31811-4
	5/16 M8	A	1.314 33.38	.978 24.84	.516 13.11	.656 16.66	.073 1.85	.296 7.52	33470*
		C	1.324 33.63	1.009 25.63	.500 12.70	.625 15.88	.073 1.85	.280 7.11	33115
	3/8	A	1.314 33.38	.978 24.84	.516 13.11	.656 16.66	.073 1.85	.296 7.52	33471*
		A	2.090 53.09	1.462 37.13	1.000 25.40	1.250 31.75	.073 1.85	.296 7.52	36815
		C	1.902 48.31	1.462 37.13	1.000 25.40	.875 22.23	.073 1.85	.296 7.52	322704
		C	1.324 33.63	1.009 25.63	.500 12.70	.625 15.88	.073 1.85	.280 7.11	31812

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.
semi-automatic pneumatic crimping system.

Ring Tongue Terminals (Continued)

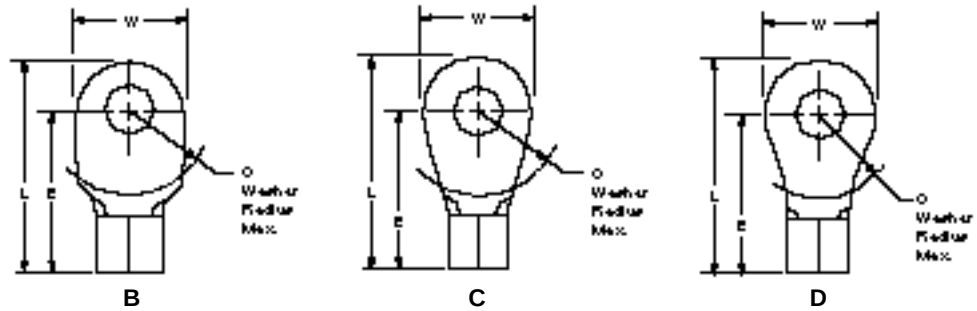
Wire Size Range

AWG 4 to 1/0,
CMA 33,100 to 119,500
[16.8 to 60.6 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	E Max.	C	W			
4 33,100–52,600 [16.8–26.7]	7/16	A**	1.314 33.38	.978 24.84	.516 13.11	.656 16.66	.073 1.85	.296 7.52	320743
	1/2 M12	A**	2.090 53.09	1.462 37.13	1.000 25.40	1.250 31.75	.073 1.85	.296 7.52	35668*
		B	1.902 48.31	1.462 37.13	1.000 25.40	.875 22.23	.073 1.85	.296 7.52	327175*
	5/8 M16	A**	2.090 53.09	1.462 37.13	1.000 25.40	1.250 31.75	.073 1.85	.296 7.52	35669
	3/4	A**	2.090 53.09	1.462 37.13	1.000 25.40	1.250 31.75	.073 1.85	.296 7.52	35670
2 52,600–83,700 [26.7–42.4]	10	B	1.527 38.79	1.212 30.78	.531 13.49	.625 15.88	.073 1.85	.370 9.40	330301
	1/4 M6	B	1.527 38.79	1.212 30.78	.531 13.49	.625 15.88	.073 1.85	.370 9.40	320383*
		D	1.657 42.09	1.212 30.78	.531 13.49	.890 22.61	.073 1.85	.370 9.40	320138
	5/16 M8	D	1.657 42.09	1.212 30.78	.531 13.49	.890 22.61	.073 1.85	.370 9.40	35183
		B	1.527 38.79	1.212 30.78	.531 13.49	.625 15.88	.073 1.85	.370 9.40	322870*
	3/8	B	1.527 38.79	1.212 30.78	.531 13.49	.625 15.88	.073 1.85	.370 9.40	321600*
		D	1.657 42.09	1.212 30.78	.531 13.49	.890 22.61	.073 1.85	.370 9.40	35184
	7/16	D	1.657 42.09	1.212 30.78	.531 13.49	.890 22.61	.073 1.85	.370 9.40	320741
	1/2 M12	D	1.657 42.09	1.212 30.78	.531 13.49	.890 22.61	.073 1.85	.370 9.40	35185*
		D	2.516 63.91	1.888 47.96	1.125 28.58	1.250 31.75	.073 1.85	.370 9.40	323291
	5/8 M16	D	2.516 63.91	1.888 47.96	1.125 28.58	1.250 31.75	.073 1.85	.370 9.40	320754
		D	2.516 63.91	1.888 47.96	1.125 28.58	1.250 31.75	.073 1.85	.370 9.40	320755
	1/4 M6	C	1.956 49.68	1.529 38.84	.625 15.88	.875 22.23	.073 1.85	.444 11.28	36915
		C	1.925 48.90	1.532 38.91	.625 15.88	.807 20.50	.073 1.85	.444 11.28	321866
1/0 83,700–119,500 [42.4–60.6]	5/16 M8	C	1.956 49.68	1.529 38.84	.625 15.88	.875 22.23	.073 1.85	.444 11.28	36916*
		C	1.925 48.90	1.532 38.91	.625 15.88	.807 20.50	.073 1.85	.444 11.28	321867*
	3/8	C	1.956 49.68	1.529 38.84	.625 15.88	.875 22.23	.073 1.85	.444 11.28	36917*
		C	1.925 48.90	1.532 38.91	.625 15.88	.807 20.50	.073 1.85	.444 11.28	321868
	7/16	C	1.956 49.68	1.529 38.84	.625 15.88	.875 22.23	.073 1.85	.444 11.28	36918
		C	1.925 48.90	1.532 38.91	.625 15.88	.807 20.50	.073 1.85	.444 11.28	321868
	1/2	C	1.956 49.68	1.529 38.84	.625 15.88	.875 22.23	.073 1.85	.444 11.28	36918

*Part numbers are available in small quantity packages.

** See style A art on preceding page.

Ring Tongue Terminals (Continued)

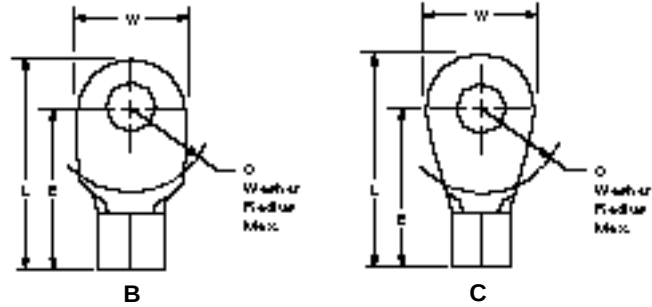
Wire Size Range

AWG 1/0 to 3/0,
CMA 83,700 to 190,000
[42.4 to 96.3 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	E Max.	C	W			
1/0 83,700–119,500 [42.4–60.6]	1/2 M12	C	1.956 49.68	1.529 38.84	.625 15.88	.875 22.23	.073 1.85	.444 11.28	36919*
		C	2.678 68.02	2.063 52.40	1.125 28.58	1.265 32.13	.073 1.85	.444 11.28	322291
	5/8 M16	C	2.678 68.02	2.063 52.40	1.125 28.58	1.265 32.13	.073 1.85	.444 11.28	320744
		C	2.678 68.02	2.063 52.40	1.125 28.58	1.265 32.13	.073 1.85	.444 11.28	320748
2/0 119,500–150,500 [60.6–76.3]	1/4 M6	C	1.930 49.02	1.550 39.37	.625 15.88	.926 23.52	.083 2.11	.504 12.80	321869
		C	2.000 50.80	1.545 39.24	.625 15.88	.946 24.03	.083 2.11	.504 12.80	36921
	5/16 M8	C	1.930 49.02	1.550 39.37	.625 15.88	.926 23.52	.083 2.11	.504 12.80	321870*
		C	2.000 50.80	1.545 39.24	.625 15.88	.946 24.03	.083 2.11	.504 12.80	36922
	3/8	C	1.930 49.02	1.550 39.37	.625 15.88	.926 23.52	.083 2.11	.504 12.80	321871*
		C	2.000 50.80	1.545 39.24	.625 15.88	.946 24.03	.083 2.11	.504 12.80	36923*
	7/16	C	1.930 49.02	1.550 39.37	.625 15.88	.926 23.52	.083 2.11	.504 12.80	321872
		C	1.930 49.02	1.550 39.37	.625 15.88	.926 23.52	.083 2.11	.504 12.80	321873*
	1/2 M12	C	2.000 50.80	1.545 39.24	.625 15.88	.946 24.03	.083 2.11	.504 12.80	36925*
		C	2.671 67.84	2.056 52.22	1.125 28.58	1.270 32.26	.083 2.11	.504 12.80	322391
	5/8 M16	C	2.671 67.84	2.056 52.22	1.125 28.58	1.270 32.26	.083 2.11	.504 12.80	322224
		C	2.671 67.84	2.056 52.22	1.125 28.58	1.270 32.26	.083 2.11	.504 12.80	322225
	3/4	C	2.671 67.84	2.056 52.22	1.125 28.58	1.270 32.26	.083 2.11	.504 12.80	322225
		C	2.671 67.84	2.056 52.22	1.125 28.58	1.270 32.26	.083 2.11	.504 12.80	322225
	1/4	B	2.112 53.64	1.622 41.20	.625 15.88	1.020 25.91	.094 2.39	.565 14.35	323868
		B	2.112 53.64	1.622 41.20	.625 15.88	1.020 25.91	.094 2.39	.565 14.35	321874
3/0 150,500–190,000 [76.3–96.3]	5/16 M8	B	2.143 54.43	1.643 41.73	.625 15.88	1.082 27.48	.094 2.39	.565 14.35	320266
		B	2.143 54.43	1.643 41.73	.625 15.88	1.082 27.48	.094 2.39	.565 14.35	321875*
	3/8	B	2.112 53.64	1.622 41.20	.625 15.88	1.020 25.91	.094 2.39	.565 14.35	321875*
		B	2.143 54.43	1.643 41.73	.625 15.88	1.082 27.48	.094 2.39	.565 14.35	36927*
	7/16	B	2.112 53.64	1.622 41.20	.625 15.88	1.020 25.91	.094 2.39	.565 14.35	321876
		B	2.112 53.64	1.622 41.20	.625 15.88	1.020 25.91	.094 2.39	.565 14.35	321876

*Part numbers are available in small quantity packages.

Ring Tongue Terminals (Continued)

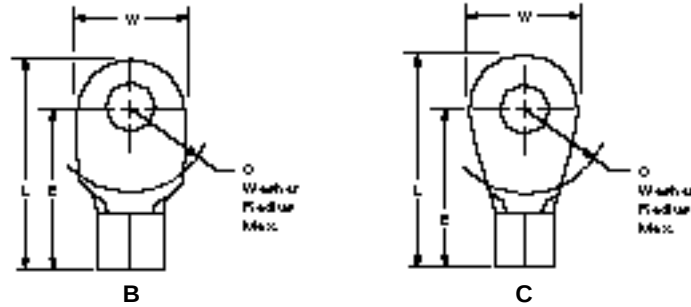
Wire Size Range

**AWG 3/0 to 300 MCM,
CMA 150,500 to 300,000
[76.3 to 152 mm²]**

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	E Max.	C	W			
3/0 150,500–190,000 [76.3–96.3]	1/2 M12	B	2.143 54.43	1.643 41.73	.625 15.88	1.082 27.48	.094 2.39	.565 14.35	36929*
		B	2.112 53.64	1.622 41.20	.625 15.88	1.020 25.91	.094 2.39	.565 14.35	321877*
	5/8 M16	C	2.699 68.55	2.084 52.93	1.125 28.58	1.270 32.26	.094 2.39	.565 14.35	322222
		B	2.143 54.43	1.643 41.73	.625 15.88	1.082 27.48	.094 2.39	.565 14.35	36930
	3/4	C	2.699 68.55	2.084 52.93	1.125 28.58	1.270 32.26	.094 2.39	.565 14.35	322223
4/0 190,000–231,000 [96.3–117]	1/4 M6	B	2.206 56.03	1.644 41.76	.625 15.88	1.150 29.21	.105 2.67	.635 16.13	2-36932-2
	5/16 M8	B	2.537 64.44	1.985 50.42	1.078 27.38	1.150 29.21	.105 2.67	.635 16.13	321271
	3/8	B	2.206 56.03	1.644 41.76	.625 15.88	1.150 29.21	.105 2.67	.635 16.13	36932
		B	2.178 55.32	1.657 42.09	.625 15.88	1.087 27.61	.105 2.67	.635 16.13	321878*
	7/16	B	2.178 55.32	1.657 42.09	.625 15.88	1.087 27.61	.105 2.67	.635 16.13	321879
	1/2 M12	B	2.178 55.32	1.657 42.09	.625 15.88	1.087 27.61	.105 2.67	.635 16.13	321880*
		B	2.206 56.03	1.644 41.76	.625 15.88	1.150 29.21	.105 2.67	.635 16.13	36934*
		B	2.537 64.44	1.985 50.42	1.078 27.38	1.150 29.21	.105 2.67	.635 16.13	321163
		B	2.206 56.03	1.644 41.76	.625 15.88	1.150 29.21	.105 2.67	.635 16.13	36935
	5/8 M16	C	2.732 69.39	2.117 53.77	1.078 27.38	1.275 32.39	.105 2.67	.635 16.13	322227
	3/4	C	2.732 69.39	2.117 53.77	1.078 27.38	1.275 32.39	.105 2.67	.635 16.13	322228
	7/8 M22	C	2.732 69.39	2.117 53.77	1.078 27.38	1.275 32.39	.105 2.67	.635 16.13	321625
250–300 MCM 231,000–300,000 [117–152]	3/8	B	2.602 66.09	1.987 50.47	.625 15.88	1.435 36.45	.130 3.30	.753 19.13	322252
	7/16	B	2.602 66.09	1.987 50.47	.625 15.88	1.435 36.45	.130 3.30	.753 19.13	322253
	1/2 M12	B	2.602 66.09	1.987 50.47	.625 15.88	1.435 36.45	.130 3.30	.753 19.13	322254
	5/8 M16	B	2.602 66.09	1.987 50.47	.625 15.88	1.435 36.45	.130 3.30	.753 19.13	323050
	3/4	B	3.259 82.78	2.566 65.18	1.203 30.56	1.435 36.45	.130 3.30	.753 19.13	323140
	1	B	3.259 82.78	2.566 65.18	1.203 30.56	1.435 36.45	.130 3.30	.753 19.13	323034

*Part numbers are available in small quantity packages.

Ring Tongue Terminals (Continued)

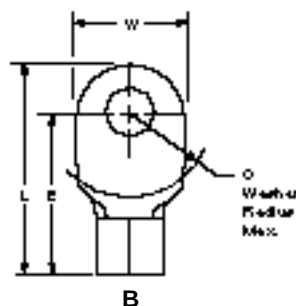
Wire Size Range

**300 to 600 MCM,
CMA 300,000 — 600,000
[152 to 304 mm²]**

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	E Max.	C	W			
300–350 MCM 300,000–380,000 [152–193]	3/8	B	2.671 67.84	2.056 52.22	.625 15.88	1.545 39.24	.140 3.56	.819 20.80	322257
		B	3.422 86.92	2.675 67.95	1.250 31.75	1.545 39.24	.140 3.56	.819 20.80	322763
	7/16	B	2.671 67.84	2.056 52.22	.625 15.88	1.545 39.24	.140 3.56	.819 20.80	322258
		B	2.671 67.84	2.056 52.22	.625 15.88	1.545 39.24	.140 3.56	.819 20.80	322259
	1/2 M12	B	3.422 86.92	2.675 67.95	1.250 31.75	1.545 39.24	.140 3.56	.819 20.80	322764
		B	2.671 67.84	2.065 52.22	.625 15.88	1.545 39.24	.140 3.56	.819 20.80	324105
	5/8	B	3.422 86.92	2.675 67.95	1.250 31.75	1.545 39.24	.140 3.56	.819 20.80	322428
		B	2.790 70.87	2.175 55.25	.625 15.88	1.749 44.42	.158 4.01	.930 23.62	322262
400 MCM 380,000–478,000 [193–242]	7/16	B	2.790 70.87	2.175 55.25	.625 15.88	1.749 44.42	.158 4.01	.930 23.62	322263
		B	2.790 70.87	2.175 55.25	.625 15.88	1.749 44.42	.158 4.01	.930 23.62	322264
	1/2 M12	B	3.644 92.56	2.795 70.99	1.250 31.75	1.749 44.42	.158 4.01	.930 23.62	327882
		B	2.790 70.87	2.175 55.25	.625 15.88	1.749 44.42	.158 4.01	.930 23.62	324202
	5/8 M16	B	3.644 92.56	2.795 70.99	1.250 31.75	1.749 44.42	.158 4.01	.930 23.62	323222
		B	3.644 92.56	2.795 70.99	1.250 31.75	1.749 44.42	.158 4.01	.930 23.62	322939
	3/4	B	3.187 80.95	2.447 62.15	.750 19.05	2.015 51.18	.182 4.62	1.075 27.31	322267
		B	4.176 106.07	3.194 81.13	1.500 38.10	2.015 51.18	.182 4.62	1.075 27.31	322772
500–600 MCM 478,000–600,000 [242–304]	1/2 M12	B	3.187 80.95	2.447 62.15	.750 19.05	2.015 51.18	.182 4.62	1.075 27.31	322269
		B	4.176 106.07	3.194 81.13	1.500 38.10	2.015 51.18	.182 4.62	1.075 27.31	322773
	5/8 M16	B	3.187 80.95	2.447 62.15	.750 19.05	2.015 51.18	.182 4.62	1.075 27.31	322270
		B	4.176 106.07	3.194 81.13	1.500 38.10	2.015 51.18	.182 4.62	1.075 27.31	322271
	3/4	B	4.176 106.07	3.194 81.13	1.500 38.10	2.015 51.18	.182 4.62	1.075 27.31	322273
		B	4.176 106.07	3.194 81.13	1.500 38.10	2.015 51.18	.182 4.62	1.075 27.31	322273

Right Angle Ring Tongue Terminals

Wire Size Range

**AWG 22 to 300 MCM,
CMA 509 — 300,000
[0.26 to 152 mm²]**

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions		Material Thickness Max.	Wire Barrel ID Min	Part Numbers
		C Min.	W			
22-16 509-3,260 [0.26-1.65]	6	.171 4.34	.281 7.14	.033 .838	.061 1.55	321262
	10	.187 4.75	.312 7.92	.033 .838	.061 1.55	322768
16-14 2,050-5,180 [1.04-2.62]	8	.185 4.70	.343 8.71	.050 1.27	.105 2.67	184269
	10	.192 4.88	.343 8.71	.033 .838	.085 2.16	322821
8 13,100-20,800 [6.64-10.5]	1/4	.432 10.97	.594 15.09	.051 1.30	.172 4.37	35277
6 20,800-33,100 [10.5-16.8]	1/4	.390 9.91	.625 15.88	.060 1.52	.232 5.89	35678
	5/16	.390 9.91	.625 15.88	.060 1.52	.232 5.89	33466-1
4 33,100-52,600 [16.8-26.7]	1/4	.375 9.53	.656 16.66	.073 1.85	.296 7.52	35625
	5/16	.348 8.84	.625 15.88	.073 1.85	.280 7.11	33115-1
	3/8	.348 8.84	.625 15.88	.073 1.85	.280 7.11	31812-1
2 52,600-83,700 [26.7-42.4]	5/16	.422 10.72	.625 15.88	.073 1.85	.370 9.40	322870-1
1/0 83,700-119,500 [42.4-60.6]	1/4	.437 11.10	.807 20.50	.073 1.85	.444 11.28	322905
	5/16	.531 13.49	.807 20.50	.073 1.85	.444 11.28	321867-1
	3/8	.531 13.49	.807 20.50	.073 1.85	.444 11.28	322906
	1/2	.531 13.49	.875 22.23	.073 1.85	.444 11.28	322909
2/0 119,500-150,500 [60.6-76.3]	5/16	.500 12.70	.946 24.03	.083 2.11	.504 12.80	36922-1
	3/8	.531 13.49	.926 23.52	.083 2.11	.504 12.80	322912
3/0 150,500-190,000 [76.3-96.3]	5/16	.531 13.49	1.020 25.91	.094 2.39	.565 14.35	321874-1
	3/8	.468 11.89	1.082 27.48	.094 2.39	.565 14.35	324035
	1/2	.468 11.89	1.062 26.97	.094 2.39	.565 14.35	36929-1
4/0 190,000-231,000 [96.3-117]	5/16	.750 19.05	1.150 29.21	.105 2.67	.635 16.13	321272
	3/8	.484 12.29	1.140 28.96	.105 2.67	.635 16.13	321265
250-300 MCM 231,000-300,000 [117-152]	1/2	.863 21.92	1.435 36.45	.129 3.28	.753 19.13	324023

Heavy Duty Ring Tongue Terminals

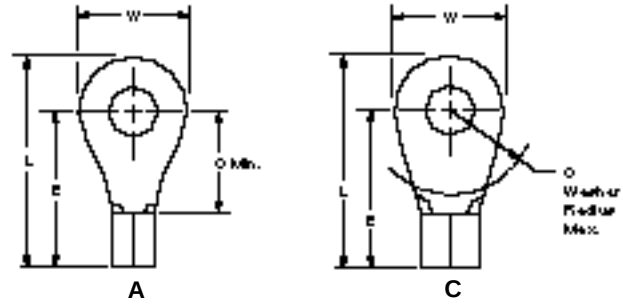
Wire Size Range

AWG 16 to 8,
CMA 2,050 to 20,800
[1.04 to 10.5 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
			L Max.	E Max.	C	W		Solistrand	Budget	Solistrand	Budget
16-14 2,050-5,180 [1.04-2.62]	4	A	.630 16.00	.487 12.37	.219 5.56	.281 7.14	.050 1.27	—	.110 2.79	—	33728
	6	A	.630 16.00	.487 12.37	.219 5.56	.281 7.14	.050 1.27	—	.110 2.79	—	33729
	M3.5	A	.723 18.36	.549 13.94	.281 7.14	.343 8.71	.050 1.27	.105 2.67	.110 2.79	322833	33716
	8	A	.723 18.36	.549 13.94	.281 7.14	.343 8.71	.050 1.27	.105 2.67	.110 2.79	35432	33717
	10	A	.723 18.36	.549 13.94	.281 7.14	.343 8.71	.050 1.27	.105 2.67	.110 2.79	34567* 2-34567-1	33718
		A	.865 21.97	.612 15.54	.344 8.74	.500 12.70	.050 1.27	—	.110 2.79	—	34967
		A	.973 24.71	.705 17.91	.437 11.10	.531 13.49	.050 1.27	—	.110 2.79	—	33646
	1/4 M6	A	.865 21.97	.612 15.54	.344 8.74	.500 12.70	.050 1.27	.105 2.67	.110 2.79	35775* 2-35775-1	34968
		A	.973 24.71	.705 17.91	.437 11.10	.531 13.49	.050 1.27	—	.110 2.79	—	33195
	5/16 M8	A	.865 21.97	.612 15.54	.344 8.74	.500 12.70	.050 1.27	.105 2.67	.110 2.79	35776	34969
		A	.973 24.71	.705 17.91	.437 11.10	.531 13.49	.050 1.27	—	.110 2.79	—	33647
	3/8	A	.973 24.71	.705 17.91	.437 11.10	.531 13.49	.050 1.27	.105 2.67	.110 2.79	322832	33648
		A	1.271 32.28	.893 22.68	.625 15.88	.750 19.05	.050 1.27	.105 2.67	.110 2.79	327732	34829
	1/2 M12	A	1.271 32.28	.893 22.68	.625 15.88	.750 19.05	.050 1.27	.105 2.67	.110 2.79	321165*	34830
		A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.050 1.27	—	.110 2.79	—	36199
	5/8 M16	A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.050 1.27	.105 2.67	.110 2.79	320758	36200
	3/4	A	1.896 48.16	1.268 32.21	1.000 25.40	1.250 31.75	.050 1.27	.105 2.67	.110 2.79	320759	36201
8 13,100-20,800 [6.64-10.5]	10	C	1.273 32.33	.977 24.82	.443 11.25	.587 14.91	.095 2.41	.177 4.50	—	331414	—
	1/4 M6	C	.949 24.10	.696 17.68	.240 6.10	.500 12.70	.095 2.41	.177 4.50	—	330968	—
		C	.933 23.70	.696 17.68	.250 6.35	.468 11.89	.095 2.41	.177 4.50	—	332042	—
	5/16 M8	C	1.273 32.33	.977 24.82	.443 11.25	.587 14.91	.095 2.41	.177 4.50	—	1-331414-1	—

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Heavy Duty Ring Tongue Terminals (Continued)

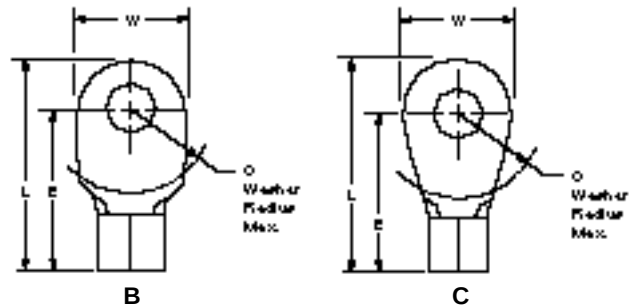
Wire Size Range

AWG 6 to 1/0,
CMA 20,800 to 119,500
[10.5 to 60.6 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	E Max.	C	W			
6 20,800–33,100 [10.5–16.8]	10	B	1.184 30.07	.931 23.65	.370 9.40	.500 12.70	.095 2.41	.232 5.89	2-330969-1
	1/4 M6	B	1.184 30.07	.931 23.65	.370 9.40	.500 12.70	.095 2.41	.232 5.89	330969
		C	1.415 35.94	1.100 27.94	.454 11.53	.625 15.88	.095 2.41	.232 5.89	331417
	3/8	C	1.415 35.94	1.100 27.94	.454 11.53	.625 15.88	.095 2.41	.232 5.89	1-331417-1
4 33,100–52,600 [16.8–26.7]	1/4 M6	B	1.230 31.24	.977 24.82	.390 9.91	.500 12.70	.095 2.41	.296 7.52	330970
		C	1.535 38.99	1.193 30.30	.456 11.58	.679 17.25	.095 2.41	.296 7.52	331420
	5/16 M8	C	1.535 38.99	1.193 30.30	.456 11.58	.679 17.25	.095 2.41	.296 7.52	1-331420-0
	3/8	C	1.535 38.99	1.193 30.30	.456 11.58	.679 17.25	.095 2.41	.296 7.52	1-331420-1
2 52,600–83,700 [26.7–42.4]	3/8	C	1.745 44.32	1.315 33.40	.639 16.23	.855 21.72	.095 2.41	.375 9.53	1-331423-0
	1/2 M12	C	1.745 44.32	1.315 33.40	.639 16.23	.855 21.72	.095 2.41	.375 9.53	1-331423-1
1/0 83,700–119,500 [42.4–60.6]	3/8	B	1.928 48.97	1.519 38.58	.691 17.55	.822 20.88	.095 2.41	.439 11.15	1-331880-0
	1/2 M12	B	1.928 48.97	1.519 38.58	.691 17.55	.822 20.88	.095 2.41	.439 11.15	1-331880-1

Rectangular Tongue Terminals

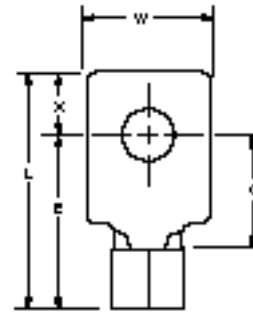
Wire Size Range

AWG 22 to 14,
CMA 509 to 5,180
[0.26 to 2.62 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X		Solistrand	Budget	Solistrand	Budget
22-16 509-3,260 [0.26-1.65]	2 M2	.551 14.00	.431 10.95	.250 6.35	.182 4.62	.115 2.92	.033 0.84	—	.065 1.65	—	320870
		.529 13.44	.384 9.75	.203 5.16	.213 5.41	.140 3.56	.033 0.84	—	.065 1.65	—	32579
	4	.670 17.02	.517 13.13	.237 6.02	.237 6.02	.143 3.63	.033 0.84	.061 1.55	.065 1.65	328363	328349
		.551 14.00	.431 10.95	.250 6.35	.182 4.62	.115 2.92	.033 0.84	.061 1.55	.065 1.65	323119	322408
	6 M3.5	.811 20.60	.606 15.39	.404 10.26	.237 6.02	.195 4.95	.033 0.84	—	.065 1.65	—	327955
		.982 24.94	.745 18.92	.465 11.81	.302 7.67	.227 5.77	.033 0.84	.061 1.55	.065 1.65	328353	328339
		.670 17.02	.462 11.73	.281 7.14	.312 7.92	.203 5.16	.033 0.84	.061 1.55	.065 1.65	323112	321691
	8 M4	.982 24.94	.745 18.92	.465 11.81	.302 7.67	.227 5.77	.033 0.84	.061 1.55	.065 1.65	328355	328341
		.748 19.00	.540 13.72	.281 7.14	.312 7.92	.203 5.16	.033 0.84	.061 1.55	—	330539	—
	10	.670 17.02	.462 11.73	.281 7.14	.375 9.53	.203 5.16	.033 0.84	.061 1.55	.065 1.65	323106 2-323106-1	34525
		.546 13.87	.399 10.13	.218 5.54	.344 8.74	.142 3.61	.033 0.84	.061 1.55	.065 1.65	34459	31821
	4	.576 14.63	.462 11.73	.281 7.14	.215 5.46	.109 2.77	.033 0.84	—	.089 2.26	—	31691
		.632 16.05	.479 12.17	.277 7.04	.277 7.04	.143 3.63	.033 0.84	—	.089 2.26	—	327951
	6 M3.5	.560 14.22	.368 9.35	.187 4.75	.250 6.35	.187 4.75	.033 0.84	.085 2.16	.089 2.26	320815	320814
		.529 13.44	.384 9.75	.203 5.16	.296 7.52	.140 3.56	.033 0.84	.085 2.16	.089 2.26	34266 2-34266-1	31813
	8 M4	.633 16.08	.493 12.52	.312 7.92	.244 6.20	.125 3.18	.033 0.84	—	.089 2.26	—	35278
		.982 24.94	.745 18.92	.465 11.81	.302 7.67	.227 5.77	.033 0.84	.085 2.16	.089 2.26	328356	328342
	10	.717 18.21	.462 11.73	.281 7.14	.312 7.92	.250 6.35	.033 0.84	.085 2.16	.089 2.26	320819	320818
	12	.951 24.16	.618 15.70	.437 11.10	.375 9.53	.328 8.33	.033 0.84	—	.089 2.26	—	320820

Note: Part numbers are shown as loose piece over tape mounted product.

Rectangular Tongue Terminals (Continued)

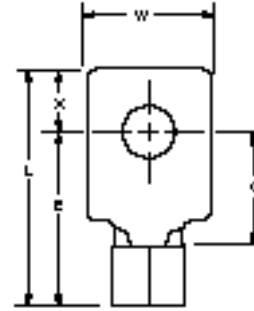
Wire Size Range

AWG 12 to 10,
CMA 5,180 to 13,100
[2.62 to 6.64 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X		Solistrand	Budget	Solistrand	Budget
12-10 5,180-13,100 [2.62-6.64]	4	.679 17.25	.526 13.36	.237 6.02	.237 6.02	.143 3.63	.042 1.07	.129 3.28	.134 3.40	328050	327971
	5	.719 18.26	.566 14.38	.277 7.04	.277 7.04	.143 3.63	.042 1.07	—	.134 3.40	—	327953
	M3	.631 16.03	.486 12.34	.218 5.54	.290 7.37	.140 3.56	.042 1.07	.129 3.28	.134 3.40	321499 2-321499-1	33426
	6	.898 22.81	.693 17.60	.404 10.26	.237 6.02	.195 4.95	.042 1.07	—	.134 3.40	—	327959
	M3.5	1.006 25.55	.736 18.69	.468 11.89	.296 7.52	.265 6.73	.042 1.07	.129 3.28	.134 3.40	322946	322945
	8	.924 23.47	.754 19.15	.465 11.81	.302 7.67	.160 4.06	.042 1.07	—	.134 3.40	—	331269
	M4	.843 21.41	.588 14.94	.320 8.13	.312 7.92	.250 6.35	.042 1.07	.129 3.28	.134 3.40	321558	321557
	10	.843 21.41	.588 14.94	.320 8.13	.312 7.92	.250 6.35	.042 1.07	.129 3.28	.134 3.40	321558	321557
	1/4	1.069 27.15	.736 18.69	.468 11.89	.469 11.91	.328 8.33	.042 1.07	.129 3.28	.134 3.40	320823	320822
	M6	1.069 27.15	.736 18.69	.468 11.89	.469 11.91	.328 8.33	.042 1.07	.129 3.28	.134 3.40	320823	320822

Note: Part numbers are shown as loose piece over tape mounted product.

Spade Tongue Terminals

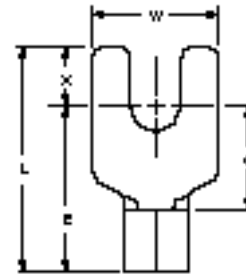
Wire Size Range

**AWG 26 to 10,
CMA 202 to 13,100
[0.1 to 6.64 mm²]**

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X		Solistrand	Budget	Solistrand	Budget
26–22 202–810 [0.1–0.41]	0	.280 7.11	.213 5.41	.078 1.98	.125 3.18	.062 1.57	.020 0.51	—	.035 0.89	—	32501
	4	.431 10.95	.346 8.79	.211 5.36	.203 5.16	.076 1.93	.020 0.51	—	.035 0.89	—	34247
22–16 509–3,260 [0.26–1.65]	2 M2	.504 12.80	.384 9.75	.203 5.16	.182 4.62	.115 2.92	.033 0.84	.061 1.55	.065 1.65	53555-1* 53555-2	328395
	4	.451 11.46	.337 8.56	.156 3.96	.218 5.54	.109 2.77	.033 0.84	.061 1.55	.065 1.65	321463 2-321463-1	323834
		.685 17.40	.493 12.52	.312 7.92	.375 9.53	.187 4.75	.033 0.84	—	.065 1.65	—	31634
	6 M3.5	.530 13.46	.384 9.75	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.061 1.55	.065 1.65	36195* 2-36195-3	33765
		.623 15.82	.493 12.52	.312 7.92	.250 6.35	.125 3.18	.033 0.84	.061 1.55	.065 1.65	323127*	34518*
	8 M4	.685 17.40	.493 12.52	.312 7.92	.375 9.53	.187 4.75	.033 0.84	.061 1.55	.065 1.65	34117* 2-34117-2	31635*
		.653 16.59	.477 12.12	.296 7.52	.343 8.71	.171 4.34	.033 0.84	—	.065 1.65	—	323823
	10	.733 18.62	.572 14.53	.312 7.92	.344 8.74	.156 3.96	.033 0.84	.061 1.55	—	34583	34582
		.685 17.40	.493 12.52	.312 7.92	.375 9.53	.187 4.75	.033 0.84	.061 1.55	.065 1.65	34118* 2-34118-2	31636*
	6 M3.5	.685 17.40	.493 12.52	.312 7.92	.385 9.78	.187 4.75	.033 0.84	—	.089 2.26	—	31704
		.530 13.46	.384 9.75	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.085 2.16	.089 2.26	322996* 2-322996-1	33202*
		.623 15.82	.493 12.52	.312 7.92	.244 6.20	.125 3.18	.033 0.84	.085 2.16	.089 2.26	330827	33221
16–14 2,050–5,180 [1.04–2.62]	8 M4	.685 17.40	.493 12.52	.312 7.92	.385 9.78	.187 4.75	.033 0.84	.085 2.16	.089 2.26	34128* 2-34128-1	31705*
		.530 13.46	.384 9.75	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.085 2.16	.089 2.26	36880 2-36880-1	35116
	10	.764 19.41	.572 14.53	.312 7.92	.385 9.78	.187 4.75	.033 0.84	.085 2.16	.089 2.26	33219*	31442
		.685 17.40	.493 12.52	.312 7.92	.385 9.78	.187 4.75	.033 0.84	.085 2.16	.089 2.26	34129*	31706
		.733 18.62	.572 14.53	.312 7.92	.344 8.74	.156 3.96	.033 0.84	.085 2.16	—	324521	—
	6 M3.5	.772 19.61	.564 14.33	.296 7.52	.406 10.31	.203 5.16	.042 1.07	—	.134 3.40	—	31587
		.631 16.03	.486 12.34	.218 5.54	.282 7.16	.140 3.56	.042 1.07	.129 3.28	.134 3.40	322451*	34384
		.772 19.61	.564 14.33	.296 7.52	.312 7.92	.203 5.16	.042 1.07	—	.134 3.40	—	35493
	8 M4	.991 25.17	.757 19.23	.468 11.89	.312 7.92	.250 6.35	.042 1.07	.129 3.28	.134 3.40	325196	325195
		.772 19.61	.564 14.33	.296 7.52	.406 10.31	.203 5.16	.042 1.07	.129 3.28	.134 3.40	32995*	31588*
	10	.772 19.61	.564 14.33	.296 7.52	.406 10.31	.203 5.16	.042 1.07	.129 3.28	.134 3.40	33479* 2-33479-1	31589
		.772 19.61	.564 14.33	.296 7.52	.375 9.53	.203 5.16	.042 1.07	.129 3.28	.134 3.40	35495* 2-35495-2	35494*

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Short Spring Spade Tongue Terminals

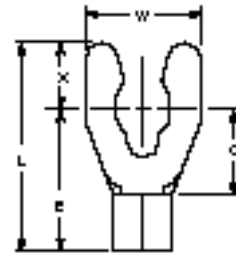
Wire Size Range

AWG 26 to 16,
CMA 202 to 3,260
[0.1 to 1.65 mm²]

Material

Terminal Body — Phosphor Bronze
per ASTM B-103

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X		Solistrand	Budget	Solistrand	Budget
26–22 202–810 [0.1–0.41]	2 M2	.455 11.56	.341 8.66	.206 5.23	.171 4.34	.109 2.77	.020 0.51	—	.034 0.86	—	53000-1
	4	.499 12.67	.354 8.99	.219 5.56	.203 5.16	.140 3.56	.020 0.51	—	.034 0.86	—	53001-1
	5 M3	.483 12.27	.338 8.59	.203 5.16	.250 6.35	.140 3.56	.020 0.51	—	.034 0.86	—	53002-1
	6 M3.5	.483 12.27	.338 8.59	.203 5.16	.250 6.35	.140 3.56	.020 0.51	—	.034 0.86	—	53003-1
	8 M4	.591 15.01	.416 10.57	.281 7.14	.375 9.53	.170 4.32	.020 0.51	—	.034 0.86	—	53004-1
	4	.576 14.63	.431 10.95	.250 6.35	.203 5.16	.140 3.56	.033 0.84	.061 1.55	.065 1.65	53175-1*	53150-2
22–16 509–3,260 [0.26–1.65]	5 M3	.576 14.63	.431 10.95	.250 6.35	.250 6.35	.140 3.56	.033 0.84	—	.065 1.65	—	53005-1
	6 M3.5	.576 14.63	.431 10.95	.250 6.35	.250 6.35	.140 3.56	.033 0.84	.061 1.55	.065 1.65	53120-1* 53120-2	53006-1
		.576 14.63	.431 10.95	.250 6.35	.234 5.94	.140 3.56	.033 0.84	.061 1.55	.065 1.65	53830-1 53830-2	53266-2
	8 M4	.637 16.18	.462 11.73	.281 7.14	.375 9.53	.170 4.32	.033 0.84	.061 1.55	.065 1.65	53121-1	53007-1
		.637 16.18	.462 11.73	.281 7.14	.244 6.20	.170 4.32	.033 0.84	.061 1.55	.065 1.65	53831-1* 53831-2	53267-2
	10	.685 17.40	.462 11.73	.281 7.14	.294 7.47	.218 5.54	.033 0.84	.061 1.55	.065 1.65	53832-1 53832-2	53268-2
	1/4-28 UNF M6	.810 20.57	.524 13.31	.343 8.71	.625 15.88	.281 7.14	.033 0.84	—	.065 1.65	—	53235-2

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Short Spring Spade Tongue Terminals (Continued)

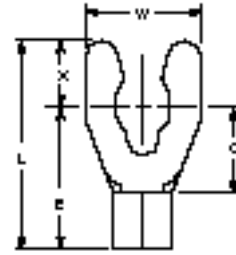
Wire Size Range

AWG 16 to 10,
CMA 2,050 to 13,100
[1.04 to 6.64 mm²]

Material

Terminal Body — Phosphor Bronze
per ASTM B-103

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X		Solistrand	Budget	Solistrand	Budget
16-14 2,050-5,180 [1.04-2.62]	5 M3	.576 14.63	.431 10.95	.250 6.35	.250 6.35	.140 3.56	.033 0.84	.085 2.16	.089 2.26	53177-1	53009-1
	6 M3.5	.576 14.63	.431 10.95	.250 6.35	.250 6.35	.140 3.56	.033 0.84	.085 2.16	.089 2.26	53123-1* 53123-2	53010-1
	8 M4	.637 16.18	.462 11.73	.281 7.14	.375 9.53	.170 4.32	.033 0.84	.085 2.16	.089 2.26	53124-1* 53124-2	53011-1
		.637 16.18	.462 11.73	.281 7.14	.244 6.20	.170 4.32	.033 0.84	.085 2.16	.089 2.26	53833-1 53833-2	53270-2
	10	.685 17.40	.462 11.73	.281 7.14	.406 10.31	.218 5.54	.033 0.84	.085 2.16	.089 2.26	53125-1* 53125-2	53012-1
		.685 17.40	.462 11.73	.281 7.14	.294 7.47	.218 5.54	.033 0.84	.085 2.16	.089 2.26	53834-1 53834-2	53271-2
	1/4-28 UNF M6	.810 20.57	.524 13.31	.343 8.71	.625 15.88	.281 7.14	.033 0.84	—	.089 2.26	—	53032-1
	5 M3	.636 16.15	.447 11.35	.169 4.29	.250 6.35	.184 4.67	.042 1.07	—	.134 3.40	—	53013-1
	6 M3.5	.636 16.15	.452 11.48	.174 4.42	.250 6.35	.179 4.55	.042 1.07	.129 3.28	.134 3.40	53126-1* 53126-2	53014-1
	8 M4	.729 18.52	.554 14.07	.276 7.01	.375 9.53	.170 4.32	.042 1.07	.129 3.28	.134 3.40	53127-1* 53127-2	53015-1
		.729 18.52	.554 14.07	.276 7.01	.312 7.92	.170 4.32	.042 1.07	.129 3.28	.134 3.40	53835-1 53835-2	53273-2
	10	.777 19.74	.554 14.07	.276 7.01	.406 10.31	.218 5.54	.042 1.07	.129 3.28	.134 3.40	53128-1* 53128-2	53016-1
		.777 19.74	.554 14.07	.276 7.01	.312 7.92	.218 5.54	.042 1.07	.129 3.28	.134 3.40	53836-1 53836-2	53274-2
	1/4-28 UNF M6	.902 22.91	.616 15.65	.338 8.59	.375 9.53	.281 7.14	.042 1.07	—	.134 3.40	—	53226-2

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Long Spring Spade Tongue Terminals

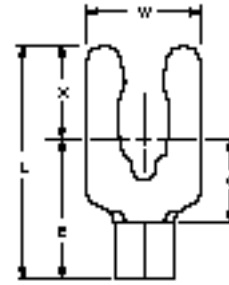
Wire Size Range

AWG 26 to 10,
CMA 202 to 13,100
[0.1 to 6.64 mm²]

Material

Terminal Body — Phosphor Bronze
per ASTM B-103

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X		Solistrand	Budget	Solistrand	Budget
26–22 202–810 [0.1–0.41]	4	.637 16.18	.341 8.66	.206 5.23	.203 5.16	.276 7.01	.020 0.51	—	.034 0.86	—	52733-1
	6 M3.5	.666 16.92	.370 9.40	.235 5.97	.250 6.35	.276 7.01	.020 0.51	—	.034 0.86	—	52734-1
	8 M4	.696 17.68	.400 10.16	.265 6.73	.281 7.14	.290 7.37	.020 0.51	—	.034 0.86	—	52735-1
22–16 509–3,260 [0.26–1.65]	4	.673 17.09	.392 9.96	.201 5.11	.203 5.16	.276 7.01	.033 0.84	—	.065 1.65	—	53047
	6 M3.5	.709 18.01	.429 10.90	.238 6.05	.250 6.35	.276 7.01	.033 0.84	.061 1.55	.065 1.65	52709-1	52700-1
	8 M4	.756 19.20	.461 11.71	.270 6.86	.281 7.14	.290 7.37	.033 0.84	.061 1.55	.065 1.65	52710-1* 52710-2	52701-1
	10	.782 19.86	.474 12.04	.283 7.19	.343 8.71	.303 7.70	.033 0.84	—	.065 1.65	—	52702-1
	1/4-28 UNF M6	.879 22.33	.536 13.61	.340 8.64	.437 11.10	.333 8.46	.033 0.84	—	.065 1.65	—	53111-2
16–14 2,050–5,180 [1.04–2.62]	6 M3.5	.709 18.01	.429 10.90	.238 6.05	.250 6.35	.276 7.01	.033 0.84	.085 2.16	.089 2.26	52712-1*	52703-1
	8 M4	.756 19.20	.461 11.71	.270 6.86	.281 7.14	.290 7.37	.033 0.84	.085 2.16	.089 2.26	52713-1* 52713-2	52704-1 52704-3
	10	.782 19.86	.474 12.04	.283 7.19	.343 8.71	.303 7.70	.033 0.84	.085 2.16	.089 2.26	52714-1*	52705-1
	1/4-28 UNF M6	.879 22.33	.536 13.61	.345 8.76	.437 11.10	.338 8.59	.033 0.84	—	.089 2.26	—	53033-1
	6 M3.5	.808 20.52	.520 13.21	.242 6.15	.312 7.92	.283 7.19	.042 1.07	.129 3.28	.134 3.40	52715-1	52706-1
12–10 5,180–13,100 [2.62–6.64]	8 M4	.851 21.62	.551 14.00	.273 6.93	.375 9.53	.295 7.49	.042 1.07	.129 3.28	.134 3.40	52716-1 52716-2	52707-1 52707-3
	10	.896 22.76	.583 14.81	.305 7.75	.375 9.53	.308 7.82	.042 1.07	.129 3.28	.134 3.40	52717-1 52717-2	52708-1
	1/4-28 UNF M6	.966 24.54	.623 15.82	.345 8.76	.437 11.10	.338 8.59	.042 1.07	—	.134 3.40	—	52772-1

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Flanged Spade Tongue Terminals

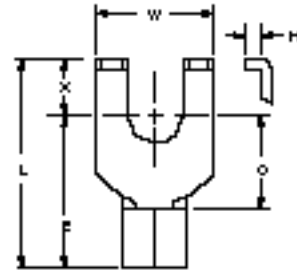
Wire Size Range

**AWG 26 to 10,
CMA 202 to 13,100
[0.1 to 6.64 mm²]**

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions						Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W	X	H Min.		Solistrand	Budget	Solistrand	Budget
26-22 202-810 [0.1-0.41]	2 M2	.453 11.51	.338 8.59	.203 5.16	.182 4.62	.110 2.79	.026 0.66	.020 0.51	—	.035 0.89	—	324599
	4	.453 11.51	.338 8.59	.203 5.16	.193 4.90	.110 2.79	.026 0.66	.020 0.51	—	.035 0.89	—	52512-1
	6 M3.5	.453 11.51	.338 8.59	.203 5.16	.250 6.35	.110 2.79	.026 0.66	.020 0.51	—	.035 0.89	—	51875-1
22-16 509-3,260 [0.26-1.65]	2 M2	.504 12.80	.384 9.75	.203 5.16	.182 4.62	.115 2.92	.041 1.04	.033 0.84	.061 1.55	.065 1.65	324605*	324604
	6 M3.5	.514 13.06	.384 9.75	.203 5.16	.296 7.52	.125 3.18	.045 1.14	.033 0.84	.061 1.55	.065 1.65	320749*	32418
		.514 13.06	.384 9.75	.203 5.16	.250 6.35	.125 3.18	.045 1.14	.033 0.84	.061 1.55	.065 1.65	323136*	322776
	8 M4	.607 15.42	.431 10.95	.250 6.35	.416 10.57	.171 4.34	.062 1.57	.033 0.84	.061 1.55	.065 1.65	323124*	32494
		.514 13.06	.384 9.75	.203 5.16	.296 7.52	.125 3.18	.045 1.14	.033 0.84	.061 1.55	.065 1.65	52730*	1-32418-2 1-32418-4
	10	.514 13.06	.384 9.75	.203 5.16	.296 7.52	.125 3.18	.045 1.14	.033 0.84	—	.065 1.65	—	328522
	6 M3.5	.514 13.06	.384 9.75	.203 5.16	.294 7.47	.125 3.18	.047 1.19	.033 0.84	.085 2.16	.089 2.26	320855*	320852
16-14 2,050-5,180 [1.04-2.62]	8 M4	.514 13.06	.384 9.75	.203 5.16	.294 7.47	.125 3.18	.047 1.19	.033 0.84	.085 2.16	.089 2.26	320856*	320853
	10	.514 13.06	.384 9.75	.203 5.16	.294 7.47	.125 3.18	.047 1.19	.033 0.84	.085 2.16	.089 2.26	320857*	320854
	6 M3.5	.694 17.63	.518 13.16	.250 6.35	.296 7.52	.171 4.34	.052 1.32	.042 1.07	.129 3.28	.134 3.40	324578 1-324578-0	324579
12-10 5,180-13,100 [2.62-6.64]	8 M4	.694 17.63	.518 13.16	.250 6.35	.416 10.57	.171 4.34	.052 1.32	.042 1.07	.129 3.28	.134 3.40	323143	32416
	10	.694 17.63	.518 13.16	.250 6.35	.416 10.57	.171 4.34	.052 1.32	.042 1.07	.129 3.28	.134 3.40	323144 2-323144-1	322725

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Slotted Ring Tongue Terminals

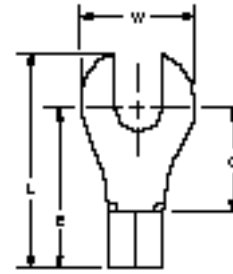
Wire Size Range

**AWG 26 to 10,
CMA 202 to 13,100
[0.1 to 6.64 mm²]**

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W		Solistrand	Budget	Solistrand	Budget
26-22 202-810 [0.1-0.41]	6 M3.5	.523 13.28	.416 10.57	.281 7.14	.250 6.35	.020 0.51	—	.035 0.89	—	322211
22-16 509-3,260 [0.26-1.65]	4	.425 10.80	.353 8.97	.172 4.37	.182 4.62	.033 0.84	.061 1.55	.065 1.65	321288*	323838
	6 M3.5	.423 10.74	.337 8.56	.156 3.96	.218 5.54	.033 0.84	.061 1.55	.065 1.65	321289 2-321289-1	323835
	8	.547 13.89	.431 10.95	.250 6.35	.281 7.14	.033 0.84	.061 1.55	.065 1.65	323129	36953
	10	.588 14.94	.462 11.73	.281 7.14	.312 7.92	.033 0.84	—	.065 1.65	—	323832
	1/4	.816 20.73	.618 15.70	.437 11.10	.469 11.91	.033 0.84	.061 1.55	.065 1.65	321809 2-321809-1	323837
16-14 2,050-5,180 [1.04-2.62]	6 M3.5	.459 11.66	.352 8.94	.171 4.34	.250 6.35	.033 0.84	.085 2.16	.089 2.26	322514	35555
	8 M4	.616 15.65	.462 11.73	.281 7.14	.344 8.74	.033 0.84	—	.089 2.26	—	34520
	10	.604 15.34	.462 11.73	.281 7.14	.343 8.71	.033 0.84	—	.089 2.26	—	328872
	1/4 M6	.816 20.73	.618 15.70	.437 11.10	.469 11.91	.033 0.84	—	.089 2.26	—	36216
12-10 5,180-13,100 [2.62-6.64]	1/4 M6	.952 24.18	.736 18.69	.468 11.89	.531 13.49	.042 1.07	.129 3.28	.134 3.40	35680*	55812-2

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

Hook Tongue Terminals

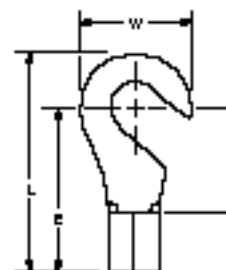
Wire Size Range

AWG 22 to 10,
CMA 509 to 13,100
[0.26 to 6.64 mm²]

Material

Terminal Body—Copper per
ASTM B-152

Plating—Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions				Material Thickness Max.	Wire Barrel I.D. Min.		Part Numbers	
		L Max.	E Max.	C Min.	W		Solistrand	Budget	Solistrand	Budget
22-16 509-3,260 [0.26-1.65]	6	.530	.384	.203	.281	.033	—	.065	—	34261
	M3.5	13.46	9.75	5.16	7.14	0.84	—	1.65	—	
	8	.656	.482	.296	.343	.033	—	.065	—	31628
	M4	16.66	12.24	7.52	8.71	0.84	—	1.65	—	
16-14 2,050-5,180 [1.04-2.62]	6	.636	.462	.281	.343	.033	—	.089	—	35212
	M3.5	16.15	11.73	7.14	8.71	0.84	—	2.26	—	
	8	.636	.462	.281	.343	.033	—	.089	—	32503
	M4	16.15	11.73	7.14	8.71	0.84	—	2.26	—	
12-10 5,180-13,100 [2.62-6.64]	10	.636	.462	.281	.343	.033	—	.089	—	33437
		16.15	11.73	7.14	8.71	0.84	—	2.26	—	
	10	.760	.570	.302	.375	.042	.129	.134	324209	327902
		19.30	14.48	7.67	9.53	1.07	3.28	3.40	2-324209-1	
	1/4	1.004	.736	.468	.531	.042	.129	.134	321632	327905
	M6	25.50	18.69	11.89	13.49	1.07	3.28	3.40	2-321632-1	

Note: Part numbers are shown as loose piece over tape mounted product.

Tab Tongue Terminals

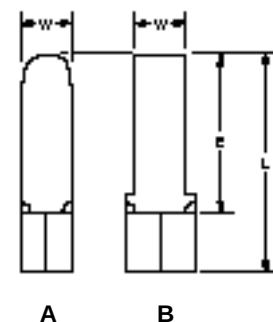
Wire Size Range

AWG 22 to 8,
CMA 509 to 20,800
[0.26 to 10.5 mm²]

Material

Terminal Body—Copper per
ASTM B-152

Plating—Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Style	Dimensions			Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
		L Max.	E Max.	W			
22-16 509-3,260 [0.26-1.65]	A	.681	.500	.125	.033	.061	323135
		17.30	12.70	3.18	0.84	1.55	
16-14 HD ¹ 2,050-5,180 [1.04-2.62]	B	.863	.615	.125	.050	.105	322441
		21.92	15.62	3.18	1.27	2.67	
12-10 5,180-13,100 [2.62-6.64]	B	.863	.613	.125	.042	.129	322443
		21.92	15.57	3.18	1.07	3.28	
8 13,100-20,800 [6.64-10.5]	B	.937	.625	.221	.051	.177	322445
		23.80	15.88	5.61	1.30	4.50	

¹Heavy Duty for extra mechanical strength.

Flag Ring Tongue Terminals

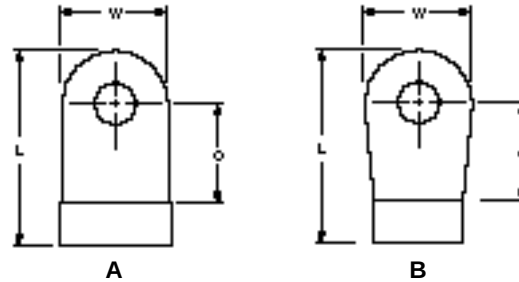
Wire Size Range

AWG 16 to 2,
CMA 2,050 to 83,700
[1.04 to 42.4 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions			Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	C Min.	W			
16-14 2,050-5,180 [1.04-2.62]	8 M4	A	.579 14.71	.250 6.35	.312 7.92	.033 0.84	.085 2.16	325069
	10	A	.579 14.71	.250 6.35	.312 7.92	.033 .084	.085 2.16	322819
12-10 5,180-13,100 [2.62-6.64]	6 M3.5	A	.702 17.83	.281 7.14	.375 9.53	.042 1.07	.129 3.28	36269
	8 M4	A	.702 17.83	.281 7.14	.375 9.53	.042 1.07	.129 3.28	36270
	10	A	.702 17.83	.281 7.14	.375 9.53	.042 1.07	.129 3.28	36271*
	1/4 M6	A	.702 17.83	.281 7.14	.375 9.53	.042 1.07	.129 3.28	36272
8 13,100-20,800 [6.64-10.5]	10	B	.791 20.09	.250 6.35	.500 12.70	.043 1.09	.180 4.57	321051
		B	.918 23.32	.378 9.60	.500 12.70	.043 1.09	.180 4.57	321441
	1/4 M6	B	1.130 28.70	.525 13.34	.609 15.47	.043 1.09	.180 4.57	322727
6 20,800-33,100 [10.5-16.8]	10	A	.841 21.36	.250 6.35	.500 12.70	.048 1.22	.224 5.69	323196
	1/4 M6	A	.960 24.38	.371 9.42	.500 12.70	.048 1.22	.224 5.69	321576
	5/16 M8	B	1.200 30.48	.528 13.41	.625 15.88	.048 1.22	.224 5.69	321056
	3/8	B	1.200 30.48	.528 13.41	.625 15.88	.048 1.22	.224 5.69	322204
4 33,100-52,600 [16.8-26.7]	10	A	1.048 26.62	.368 9.35	.546 13.87	.051 1.30	.280 7.11	321059
	1/4 M6	A	1.048 26.62	.368 9.35	.546 13.87	.051 1.30	.280 7.11	321275
	5/16 M8	B	1.278 32.46	.530 13.46	.682 17.32	.051 1.30	.280 7.11	321060
	3/8	B	1.278 32.46	.530 13.46	.682 17.32	.051 1.30	.280 7.11	321121
2 52,600-83,700 [26.7-42.4]	10	B	1.437 36.50	.534 13.56	.713 18.11	.060 1.52	.357 9.07	321063
	1/4 M6	B	1.437 36.50	.534 13.56	.713 18.11	.060 1.52	.357 9.07	321201
	5/16 M8	B	1.437 36.50	.534 13.56	.713 18.11	.060 1.52	.357 9.07	321064
	3/8	B	1.437 36.50	.534 13.56	.713 18.11	.060 1.52	.357 9.07	321253
	10 mm	B	1.437 36.50	.534 13.56	.713 18.11	.060 1.52	.357 9.07	184147-1

*Part numbers are available in small quantity packages.

Flag Ring Tongue Terminals (Continued)

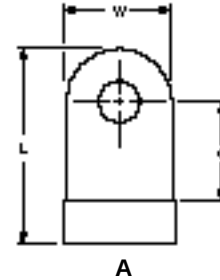
Wire Size Range

AWG 1/0 to 4/0,
CMA 83,700 to 231,000
[42.4 to 117 mm²]

Material

Terminal Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions			Material Thickness Max.	Wire Barrel I.D. Min. Solistrand	Part Numbers Solistrand
			L Max.	C Min.	W			
1/0 83,700–119,500 [42.4–60.6]	1/4 M6	A	1.733 44.02	.666 16.92	.875 22.23	.073 1.85	.444 11.28	322215
	5/16 M8	A	1.733 44.02	.666 16.92	.875 22.23	.073 1.85	.444 11.28	321580
	3/8	A	1.733 44.02	.666 16.92	.875 22.23	.073 1.85	.444 11.28	321066
	1/2 M12	A	1.733 44.02	.666 16.92	.875 22.23	.073 1.85	.444 11.28	321123
2/0 119,500–150,500 [60.6–76.3]	5/16 M8	A	1.848 46.94	.671 17.04	.920 23.37	.083 2.11	.504 12.80	321582
	3/8	A	1.848 46.94	.671 17.04	.920 23.37	.083 2.11	.504 12.80	321584
3/0 150,500–190,000 [76.3–96.3]	3/8	A	2.001 50.83	.676 17.17	1.056 26.82	.094 2.39	.565 14.35	327887
4/0 190,000–231,000 [96.3–117]	5/16 M8	A	2.131 54.13	.681 17.30	1.115 28.32	.105 2.67	.635 16.13	321277
	3/8	A	2.131 54.13	.681 17.30	1.115 28.32	.105 2.67	.635 16.13	321277-1
	1/2 M12	A	2.131 54.13	.681 17.30	1.115 28.32	.105 2.67	.635 16.13	321259

Parallel Splices

Wire Size Range

**AWG 22 to 600 MCM,
CMA 509 to 600,000
[0.26 to 304 mm²]**

Material

Splice Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils ¹ [mm ²]	Dimensions			Material Thickness Max.	Part Numbers Solistrand
	L Max.	I.D. Min.	O.D. Max.		
22-16 509-3,260 [0.26-1.65]	.301 7.65	.061 1.55	.141 3.58	.033 0.84	34130*
16-14 2,050-5,180 [1.04-2.62]	.301 7.65	.085 2.16	.165 4.19	.033 0.84	34137*
12-10 5,180-13,100 [2.62-6.64]	.343 8.71	.129 3.28	.226 5.74	.042 1.07	34138*
8 13,100-20,800 [6.64-10.5]	.375 9.53	.172 4.37	.296 7.52	.051 1.30	34318*
6 20,800-33,100 [10.5-16.8]	.437 11.10	.232 5.89	.369 9.37	.060 1.52	34319*
4 33,100-52,600 [16.8-26.7]	.531 13.49	.296 7.52	.463 11.76	.073 1.85	34320*
2 52,600-83,700 [26.7-42.4]	.640 16.26	.370 9.40	.539 13.69	.073 1.85	35187*
1/0 83,700-119,500 [42.4-60.6]	.734 18.64	.444 11.28	.613 15.57	.073 1.85	36946*
2/0 119,500-150,500 [60.6-76.3]	.734 18.64	.504 12.80	.703 17.86	.083 2.11	36948*
3/0 150,500-190,000 [76.3-96.3]	.749 19.02	.565 14.35	.775 19.69	.094 2.39	36909
4/0 190,000-231,000 [96.3-117]	.765 19.43	.635 16.13	.869 22.07	.105 2.67	36951*
250-300 MCM 231,000-300,000 [117-152]	1.062 26.97	.753 19.13	1.054 26.77	.130 3.30	322275
300-350 MCM 300,000-380,000 [152-193]	1.124 28.55	.819 20.80	1.137 28.88	.140 3.56	322276
400 MCM 380,000-478,000 [193-242]	1.249 31.72	.925 23.50	1.287 32.69	.158 4.01	322277
500-600 MCM 478,000-600,000 [242-304]	1.421 36.09	1.070 27.18	1.483 37.67	.182 4.62	322278

*Part numbers are available in small quantity packages.

¹When terminating two or more wires in a parallel splice, the combined cross sectional area must be within the listed circular mil area range (CMA).

Butt Splices

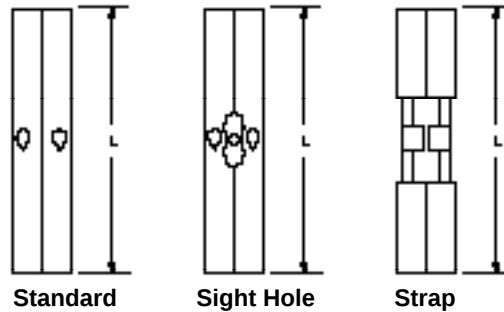
Wire Size Range

**AWG 26 to 2,
CMA 202 to 83,700
[0.1 to 42.4 mm²]**

Material

Splice Body—Copper per
ASTM B-152

Plating—Tin per MIL-T-10727



Wire Size Circular Mils ¹ [mm ²]	Style	Solistrand Dimensions			Budget Dimensions			Material Thickness Max.	Part Numbers	
		L Max.	I.D. Min.	O.D. Max.	L Max.	I.D. Min.	O.D. Max.		Solistrand	Budget
26–22 202–810 [0.1–0.41]	Strap	.385 9.78	.031 0.79	.082 2.08	.385 9.78	.034 0.86	.077 1.96	.020 0.51	321198*	321024
24–20 320–1,290 [0.16–0.65]	Strap	.490 12.45	.043 1.09	.105 2.67	—	—	—	.025 0.64	324001*	—
22–16 509–3,260 [0.26–1.65]	Strap	.591 15.01	.061 1.55	.141 3.58	.591 15.01	.065 1.65	.136 3.45	.033 0.84	2-321801-3 2-321801-4	32463
	Standard	.578 14.68	.061 1.55	.141 3.58	.578 14.68	.065 1.65	.136 3.45	.033 0.84	31818* 2-31818-1	34226*
	Sight Hole	.578 14.68	.061 1.55	.141 3.58	—	—	—	.033 0.84	330367*	—
16–14 2,050–5,180 [1.04–2.62]	Strap	.591 15.01	.085 2.16	.165 4.19	.591 15.01	.089 2.26	.160 4.06	.033 0.84	322459	32464
	Standard	.567 14.40	.085 2.16	.165 4.19	.567 14.40	.089 2.26	.160 4.06	.033 0.84	31819* 2-31819-1	34227*
	Strap	.591 15.01	.085 2.16	.165 4.19	—	—	—	.033 0.84	327025* (No Wire Stop)	—
	Sight Hole	.567 14.40	.085 2.16	.165 4.19	—	—	—	.033 0.84	330368*	—
14–12 3,260–8,230 [1.65–4.17]	Sight Hole	.690 17.53	.098 2.49	.178 4.52	—	—	—	.033 0.84	321280	—
12–10 5,180–13,100 [2.62–6.64]	Strap	—	—	—	.703 17.86	.134 3.40	.221 5.61	.042 1.07	—	30953
	Sight Hole	.567 14.40	.129 3.28	.226 5.74	—	—	—	.042 1.07	330369*	—
	Standard	.565 14.35	.129 3.28	.226 5.74	.565 14.35	.134 3.40	.221 5.61	.042 1.07	32151*	34228*
	Strap	.765 19.43	.129 3.28	.226 5.74	.765 19.43	.134 3.40	.221 5.61	.042 1.07	324893	1-324898-0
8 13,100–20,800 [6.64–10.5]	Standard	.827 21.01	.172 4.37	.296 7.52	—	—	—	.051 1.30	34321*	—
	Sight Hole	.827 21.01	.172 4.37	.296 7.52	—	—	—	.051 1.30	36906*	—
6 20,800–33,100 [10.5–16.8]	Standard	1.015 25.78	.232 5.89	.369 9.37	—	—	—	.060 1.52	34322*	—
	Sight Hole	1.015 25.78	.232 5.89	.369 9.37	—	—	—	.060 1.52	36886*	—
4 33,100–52,600 [16.8–26.7]	Standard	1.140 28.96	.296 7.52	.463 11.76	—	—	—	.073 1.85	34323*	—
	Sight Hole	1.140 28.96	.296 7.52	.463 11.76	—	—	—	.073 1.85	320238	—
2 52,600–83,700 [26.7–42.4]	Standard	1.265 32.13	.370 9.40	.539 13.69	—	—	—	.073 1.85	35189*	—
	Sight Hole	1.265 32.13	.370 9.40	.539 13.69	—	—	—	.073 1.85	322246	—

Note: Part numbers are shown as loose piece over tape mounted product.

*Part numbers are available in small quantity packages.

¹When terminating two or more wires in either end of a butt splice, the combined cross sectional area must be within the listed circular mil area range (CMA).

Butt Splices (Continued)

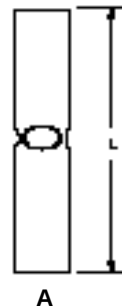
Wire Size Range

**AWG 1/0 to 600 MCM,
CMA 83,700 to 600,000
[42.4 to 304 mm²]**

Material

Splice Body — Copper per
ASTM B-152

Plating — Tin per MIL-T-10727



Wire Circular Mils ¹ [mm ²]	Style	Solistrand Dimensions			Material Thickness Max.	Part Numbers Solistrand
		L Max.	I.D. Min.	O.D. Max.		
1/0 83,700–119,500 [42.4–60.6]	A	1.412 35.86	.444 11.28	.613 15.57	.073 1.85	36957*
2/0 119,500–150,500 [60.6–76.3]	A	1.437 36.50	.504 12.80	.693 17.60	.083 2.11	36958*
3/0 150,500–190,000 [76.3–96.3]	A	1.480 37.60	.565 14.35	.775 19.69	.094 2.39	36959*
4/0 190,000–231,000 [96.3–117]	A	1.484 37.69	.635 16.13	.869 22.07	.105 2.67	36960*
250–300 MCM 231,000–300,000 [117–152]	A	2.093 53.16	.753 19.13	1.054 26.77	.130 3.30	322279
300–350 MCM 300,000–380,000 [152–193]	A	2.217 56.31	.819 20.80	1.137 28.88	.140 3.56	322280
400 MCM 380,000–478,000 [193–242]	A	2.467 62.66	.925 23.50	1.287 32.69	.158 4.01	322281
500–600 MCM 478,000–600,000 [242–304]	A	2.811 71.40	1.070 27.18	1.483 37.67	.182 4.62	322282

*Part numbers are available in small quantity packages.

¹When terminating two or more wires in either end of a butt splice, the combined cross sectional area must be within the listed circular mil area range (CMA).

Ring Tongue Terminals

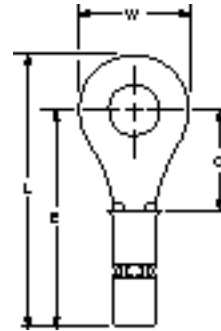
Wire Size Range

AWG 26 to 16,
CMA 202 to 3,260
[0.1 to 1.65 mm²]

Material

Terminal Body and Sleeve —
Copper per ASTM B-152

Plating —Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions				Material Thickness Max.	Wire Insulation Dia. Max.	Part Numbers	
		L Max.	E Max.	C Min.	W			Loose Piece	Tape Mounted
26–22 202–810 [0.1–0.41]	0	.464 11.79	.391 9.93	.121 3.07	.140 3.56	.020 0.51	.082 2.08	31516	—
	2 M2	.464 11.79	.391 9.93	.121 3.07	.140 3.56	.020 0.51	.082 2.08	31518	2-31518-1
		.564 14.33	.481 12.22	.211 5.36	.165 4.19	.020 0.51	.082 2.08	321621 ¹	1-321621-0 ¹
	4	.585 14.86	.481 12.22	.211 5.36	.203 5.16	.020 0.51	.082 2.08	31679	2-31679-1
	6 M3.5	.585 14.86	.481 12.22	.211 5.36	.203 5.16	.020 0.51	.082 2.08	31681	2-31681-2
		.679 17.25	.551 14.00	.281 7.14	.250 6.35	.020 0.51	.082 2.08	32861	2-32861-2
	8 M4	.679 17.25	.551 14.00	.281 7.14	.250 6.35	.020 0.51	.082 2.08	32862	2-32862-1
	2 M2	.600 15.24	.507 12.88	.172 4.37	.182 4.62	.033 0.84	.125 3.18	320678	—
		.603 15.32	.491 12.47	.156 3.96	.218 5.54	.033 0.84	.125 3.18	31094	—
	6 M3.5	.775 19.69	.616 15.65	.281 7.14	.312 7.92	.033 0.84	.125 3.18	30995	—
		.603 15.32	.491 12.47	.156 3.96	.218 5.54	.033 0.84	.125 3.18	31096	2-31096-1
		.775 19.69	.616 15.65	.281 7.14	.312 7.92	.033 0.84	.140 3.56	31159	2-31159-1
		.728 18.49	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.125 3.18	31269	2-31269-1
		.603 15.32	.491 12.47	.156 3.96	.218 5.54	.033 0.84	.140 3.56	31393	—
		.728 18.49	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.140 3.56	31396	2-31396-2
		.775 19.69	.616 15.65	.281 7.14	.312 7.92	.033 0.84	.125 3.18	30996	2-30996-1
		.775 19.69	.616 15.65	.281 7.14	.312 7.92	.033 0.84	.140 3.56	31160	2-31160-1
22–16 509–3,260 [0.26–1.65]	8 M4	.728 18.49	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.125 3.18	31270	2-31270-1
		.728 18.49	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.140 3.56	31397	2-31397-1
		.775 19.69	.616 15.65	.281 7.14	.312 7.92	.033 0.84	.125 3.18	30997	2-30997-1
		.775 19.69	.616 15.65	.281 7.14	.312 7.92	.033 0.84	.140 3.56	31161	2-31161-1
	10	.728 18.49	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.140 3.56	31398	2-31398-1
		1.009 25.63	.772 19.61	.437 11.10	.469 11.91	.033 0.84	.140 3.56	31176	2-31176-1
		1.009 25.63	.772 19.61	.437 11.10	.469 11.91	.033 0.84	.125 3.18	31251	2-31251-1
	1/4 M6								

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

¹Slightly unusual tongue shape.

Ring Tongue Terminals (Continued)

Wire Size Range

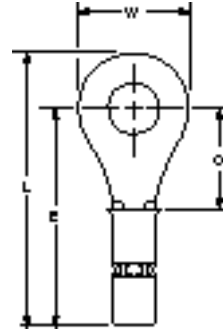
**AWG 16 to 10,
CMA 2,050 to 13,100
[1.04 to 6.64 mm²]**

Material

Terminal Body and Sleeve —

Copper per ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions				Material Thickness Max.	Wire Insulation Dia. Max.	Part Numbers	
		L Max.	E Max.	C Min.	W			Loose Piece	Tape Mounted
16–14 2,050–5,180 [1.04–2.62]	4	.634	.506	.171	.250	.033	.150	32187	—
		16.10	12.85	4.34	6.35	0.84	3.81		
		.634	.506	.171	.250	.033	.170	32189	—
		16.10	12.85	4.34	6.35	0.84	4.32		
	6	.790	.616	.281	.343	.033	.170	30926	—
		20.07	15.65	7.14	8.71	0.84	4.32		
	M3.5	.634	.506	.171	.250	.033	.150	32188	—
		16.10	12.85	4.34	6.35	0.84	3.81		
		.634	.506	.171	.250	.033	.170	32190	2-32190-1
		16.10	12.85	4.34	6.35	0.84	4.32		
	8	.790	.616	.281	.343	.033	.170	30927	2-30927-1
		20.07	15.65	7.14	8.71	0.84	4.32		
16–14HD ¹ 2,050–5,180 [1.04–2.62]	10	.790	.616	.281	.343	.033	.170	30928	2-30928-1
		20.07	15.65	7.14	8.71	0.84	4.32		
		.790	.616	.281	.343	.033	.150	30993	2-30993-1
		20.07	15.65	7.14	8.71	0.84	3.81		
	1/4	1.009	.772	.437	.469	.033	.150	31256	—
		25.63	19.61	11.10	11.91	0.84	3.81		
	M6	1.009	.772	.437	.469	.033	.170	31169	2-31169-1
		25.63	19.61	11.10	11.91	0.84	4.32		
	10	.970	.796	.281	.343	.050	.230	33722	2-33722-1
		24.64	20.22	7.14	8.71	1.27	5.84		
	1/4	1.220	.952	.437	.531	.050	.230	33639	—
		30.99	24.18	11.10	13.49	1.27	5.84		
12–10 5,180–13,100 [2.62–6.64]	1/4	1.282	1.014	.437	.531	.050	.300	322296	—
		32.56	25.76	11.10	13.49	1.27	7.62		
	6	1.007	.817	.302	.375	.042	.230	31825	—
		25.58	20.75	7.67	9.53	1.07	5.84		
	M3.5	.877	.734	.219	.281	.042	.230	321501	2-321501-1
		22.28	18.64	5.56	7.14	1.07	5.84		
		.976	.817	.302	.312	.042	.230	326889	—
		24.79	20.75	7.67	7.92	1.07	5.84		
	8	.955	.796	.281	.312	.042	.230	324523	—
		24.26	20.22	7.14	7.92	1.07	5.84		
	10	1.007	.817	.302	.375	.042	.230	31771	2-31771-1
		25.58	20.75	7.67	9.53	1.07	5.84		
	1/4	1.251	.983	.468	.531	.042	.230	31772	2-31772-1
		31.78	24.97	11.89	13.49	1.07	5.84		
	3/8	1.345	1.046	.531	.593	.042	.230	31828	—
		34.16	26.57	13.49	15.06	1.07	5.84		

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

¹Heavy Duty for extra mechanical strength.

Knife Disconnect Splices

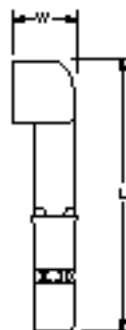
Wire Size Range

AWG 22 to 10,
CMA 509 to 13,100
[0.26 to 6.64 mm²]

Material

Splice Body and Sleeve — Copper
per ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Dimensions		Wire Insulation Dia. Max.	Part Numbers	
	L Max.	W		Loose Piece	Tape Mounted
22–16 509–3,260 [0.26–1.65]	.794 20.17	.203 5.16	.125 3.18	31770	—
	.794 20.17	.203 5.16	.140 3.56	31777	2-31777-1
16–14 2,050–5,180 [1.04–2.62]	.794 20.17	.203 5.16	.150 3.81	31943	—
	.794 20.17	.203 5.16	.170 4.32	31944	—
12–10 5,180–13,100 [2.62–6.64]	1.176 29.87	.281 7.14	.230 5.84	31942	2-31942-1

Slotted Ring Tongue Terminals

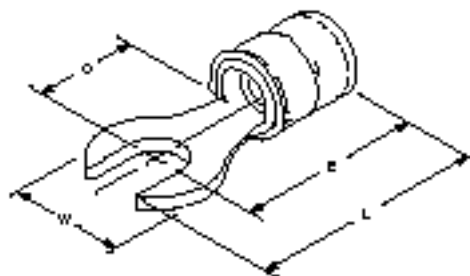
Wire Size Range

AWG 26 to 16,
CMA 202 to 3,260
[0.1 to 1.65 mm²]

Material

Terminal Body and Sleeve —
Copper per ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions				Material Thickness Max.	Wire Insulation Dia. Max.	Part Numbers	
		L Max.	E Max.	C Min.	W			Loose Piece	Tape Mounted
26–22 202–810 [0.1–0.41]	6 M3.5	.658 16.71	.551 14.00	.281 7.14	.250 6.35	.020 0.51	.082 2.08	322210	—
22–16 509–3,260 [0.26–1.65]	6 M3.5	.710 18.03	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.125 3.18	34101	—
	8 M4	.701 17.81	.585 14.86	.250 6.35	.281 7.14	.033 0.84	.140 3.56	321543	—

Note: “C” dimension applies from edge of metal wire barrel to center of stud hole.

Rectangular Tongue Terminals

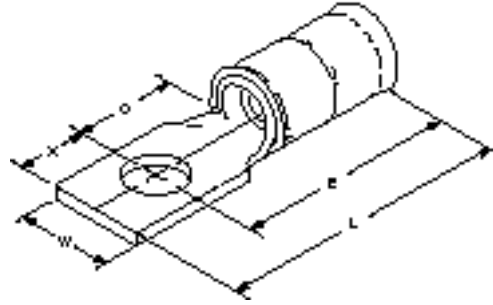
Wire Size Range

AWG 22 to 16,
CMA 509 to 3,260
[0.26 to 1.65 mm²]

Material

Terminal Body and Sleeve —
Copper per ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions				Material Thickness Max.	Wire Insulation Dia. Max.	Part Numbers	
		L Max.	E Max.	C Min.	W			Loose Piece	Tape Mounted
22-16 509-3,260 [0.26-1.65]	5 M3	.786 19.96	.633 16.08	.277 7.04	.277 7.04	.033 0.84	.140 3.56	328500	—

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

Flanged Spade Tongue Terminals

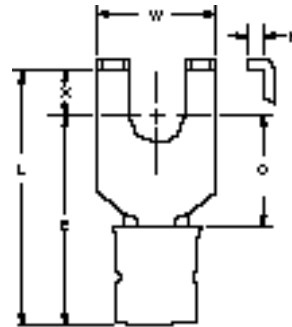
Wire Size Range

AWG 26 to 14,
CMA 202 to 5,180
[0.1 to 2.62 mm²]

Material

Terminal Body and Sleeve —
Copper per ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions						Material Thickness Max.	Wire Insulation Dia. Max.	Part Numbers	
		L Max.	E Max.	C Min.	W	X	H			Loose Piece	Tape Mounted
26-22 202-810 [0.1-0.41]	2 M2	.588 14.94	.473 12.01	.203 5.16	.182 4.62	.110 2.79	.031 0.79	.020 0.51	.082 2.08	324598	2-324598-1
22-16 509-3,260 [0.26-1.65]	6 M3.5	.668 16.97	.538 13.67	.203 5.16	.296 7.52	.125 3.18	.046 1.17	.033 0.84	.125 3.18	32419	2-32419-1
	8 M4	.761 19.33	.585 14.86	.250 6.35	.416 10.57	.171 4.34	.062 1.57	.033 0.84	.125 3.18	32495	—
	16-14 2,050-5,180 [1.04-2.62]	.685 17.40	.555 14.10	.203 5.16	.294 7.47	.125 3.18	.052 1.32	.033 0.84	.170 4.32	320859	—

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

Spade Tongue Terminals

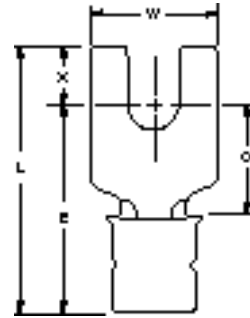
Wire Size Range

**AWG 26 to 16,
CMA 202 to 3,260
[0.1 to 1.65 mm²]**

Material

Terminal Body and Sleeve —
Copper per ASTM B-152

Plating —Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Stud Size	Dimensions					Material Thickness Max.	Wire Insulation Dia. Max.	Part Numbers	
		L Max.	E Max.	C Min.	W	X			Loose Piece	Tape Mounted
26–22 202–810 [0.1–0.41]	0	.415 10.54	.348 8.84	.078 1.98	.125 3.18	.062 1.57	.020 0.51	.082 2.08	32502	—
	4	.558 14.17	.481 12.22	.211 5.36	.203 5.16	.072 1.83	.020 0.51	.082 2.08	34248	—
22–16 509–3,260 [0.26–1.65]	6	.684 17.37	.538 13.67	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.125 3.18	33766	—
	M3.5	.684 17.37	.538 13.67	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.125 3.18	33766	—
	6	.684 17.37	.538 13.67	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.140 3.56	33799	—
	M3.5	.684 17.37	.538 13.67	.203 5.16	.297 7.54	.141 3.58	.033 0.84	.140 3.56	33799	—
	10	.807 20.50	.631 16.03	.296 7.52	.343 8.71	.171 4.34	.033 0.84	.125 3.18	320379	—

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

Knife Disconnect Splices

Wire Size Range

AWG 22 to 8,
CMA 509 to 20,800
[0.26 to 10.5 mm²]

Material

Splice Body and Sleeve — Copper
per ASTM B-152

Plating — Tin per MIL-T-10727



Wire Size Circular Mils [mm ²]	Dimensions		Part Numbers Loose Piece
	L Max.	W	
22–16 509–3,260 [0.26–1.65]	.745 18.92	.203 5.16	31762
16–14 2,050–5,180 [1.04–2.62]	.750 19.05	.203 5.16	31763
12–10 5,180–13,100 [2.62–6.64]	.940 23.88	.281 7.14	31945
8 13,100–20,800 [6.64–10.5]	1.225 31.12	.390 9.91	32161

Rectangular Tongue Terminals

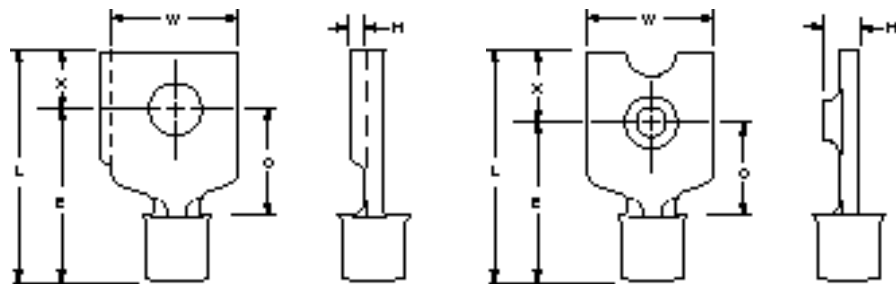
Wire Size Range

AWG 22 to 14,
CMA 509 to 5,180
[0.26 to 2.62 mm²]

Material

Terminal Body and Sleeve —
Copper per ASTM B-152

Plating — Tin per MIL-T-10727



Style A
with Side Flange

Style B
with Bossed Hole

Wire Size Circular Mils [mm ²]	Stud Size	Style	Dimensions						Material Thickness Max.	Part Numbers Loose Piece
			L Max.	E Max.	C Min.	W	X	H		
22–16 509–3,260 [0.26–1.65]	6 M3.5	B	.733 18.62	.541 13.74	.250 6.35	.250 6.35	.187 4.75	.047 1.19	.033 0.84	320671
16–14 2,050–5,180 [1.04–2.62]	8 M4	A	.647 16.43	.484 12.29	.219 5.56	.344 8.74	.156 3.96	.094 2.39	.033 0.84	31674

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

SOLISTRAND Military Approved Terminals

Military Specification	SOLISTRAND Approval	Approved Wire Range
MS 20659	Class 1 & 2	12-10
MS 20659	Class 2 Only	8-4/0
M7928/7	Class 2 Only*	22-14

SOLISTRAND Class 1 and Class 2 military approved terminals meet the performance requirements outlined in specification Mil-T-7928G.

*320093 also class 1 approved.

Class 1 and Class 2 Military Approvals

Approval	Dimensional Requirement	Application Tooling	Use	Performance Requirement
Class 1	Terminals must comply with the dimensional requirements specified by the military.	Hand application tool which must conform to the military's dimensional and performance specification.	For procurement by government agencies for maintenance and repair.	Per Military Specification Mil-T-7928G
Class 2	Dimensional requirements are maintained by the terminal manufacturers. For field repair purposes Class 2 terminals must be capable of being replaced by Class 1 Terminals	The terminal manufacturers recommended application tooling. Note: Several tape mounted SOLISTRAND part numbers are currently Class 2 approved.	For procurement by contractors and manufacturers for high volume production, modification, and repair.	

Note: Where class 2 approval exists all similar (form, fit and function) parts in that product line are approved.

Cross Reference Military to AMP Part Number

Military Specification M7928/7

Wire Size Range AWG 22 to 14

AWG	M7928/7 Dash Numbers	SOLISTRAND Part Numbers	Class	Stud Size
22-18	1	34103	2	2
		2-34103-1		
	2	34104	2	4
		2-34104-6		
	3	34110	2	6
		2-34110-3		
	4	34112	2	10
		2-34112-2		
	5	34114	2	5/6
		2-34114-2		
	6	34115	2	3/8
		2-34115-2		
16-14	7	321684	2	6
		2-321684-1		
		320093		
	8	2-320093-1	1 & 2	10
	9	34125	2	5/16
		2-34125-6		
	10	34126	2	3/8
		2-34126-2		
	11	34119	2	4
		2-34119-1		

Note: Part numbers are shown as loose piece over tape mounted product.

Cross Reference Military to AMP Part Number

Military Specification MS 20659

Wire Size Range AWG 12 to 4/0

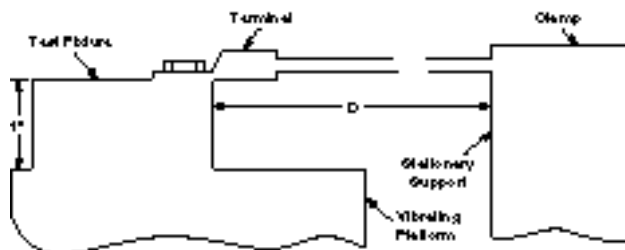
AWG	MS20659 Dash Numbers	SOLISTRAND Part Numbers	Class	Stud Size
12-10	105	33457	1&2	10
		2-33457-2	2	
	106	33459	1&2	5/16
		2-33459-6	2	
8	107	31807	2	10
		2-31807-2		
	108	31808	2	5/16
		321598		
6	109	33467	2	3/8
		31811		
4	110	31812	2	3/8
		320383		
2	111	321600	2	3/8
		321866		
1/0	112	321868	2	3/8
		321870		
2/0	113	321871	2	3/8
		321875		
3/0	114	321877	2	1/2
		321878		
4/0	115	321880	2	1/2
		33220		
12-10	116	33463	2	3/8
		321298		
8	117	33466	2	10
		2-33466-3		
6	118	33115	2	5/16
		36919		
4	119	321873	2	1/2
		321625		
2	120	324061	2	8
		33461		
1/0	121	2-33461-2	2	1/4
		320344		
2/0	122	33114	2	10
		327175		
3/0	123	330301	2	10
		322870		
4/0	124	320741	2	7/16
		321867		
12-10	125	36918	2	7/16
		321869		
8	126	321872	2	7/16
		321874		
6	127	321876	2	7/16
		321271		
4	128	321879	2	7/16
		36935		
2	129	322228	2	3/4
		35476		
1/0	130	2-35476-1	2	6
		35135		

Note: Part numbers are shown as loose piece over tape mounted product.

Description of MIL-T-7928G Test Procedures and Requirements for Terminals

Test Group	Test Sequence	Test Type	Test Description
1	A	Current Cycling	Samples subjected to 50 cycles, each cycle consisting of 30 minutes at 125% of the current listed on page 48 followed by 15 minutes with no load.
	B	Voltage Drop	See test method and requirements on page 48.
2	A	Vibration	See test method on page 46.
	B	Voltage Drop	See test method and requirements on page 48.
	C	Tensile	See test method and requirements on page 47.
3	A	Salt Spray/Corrosion	Samples subjected to a salt spray/fog for 48 hours. Salt concentration to be 5%, temperature to be 35° C (95° F, relative humidity to be 95-98%.
	B	Voltage Drop	See test method and requirements on page 48.
	C	Tensile	See test method and requirements on page 47.
4	A	Heat Age	Samples subjected to 193° C for 120 hours then cooled to 23° C within one hour.
	B	Salt Spray/Corrosion	Samples subjected to a salt spray/fog for 48 hours. Salt concentration to be 5%, temperature to be 35° C (95° F, relative humidity to be 95-98%.
	C	Voltage Drop	See test method and requirements on page 48.
	D	Tensile	See test method and requirements on page 47.

Procedure for Vibration Testing of Terminals per MIL-T-7928G



Wire Size	"D" Dimension	Duration of Test
#12 AWG and larger or terminals with insulation support	12 inches	18 hours each on horizontal and vertical axis.
#14 AWG and smaller with no insulation support	17 inches	2 hours each on horizontal and vertical axis.

Vibration to be a simple harmonic motion with an amplitude of 0.03 inches (0.06 total excursion). Frequency to vary uniformly from 10–55 Hz and back to 10 Hz. Frequency to be traversed in approximately one minute.

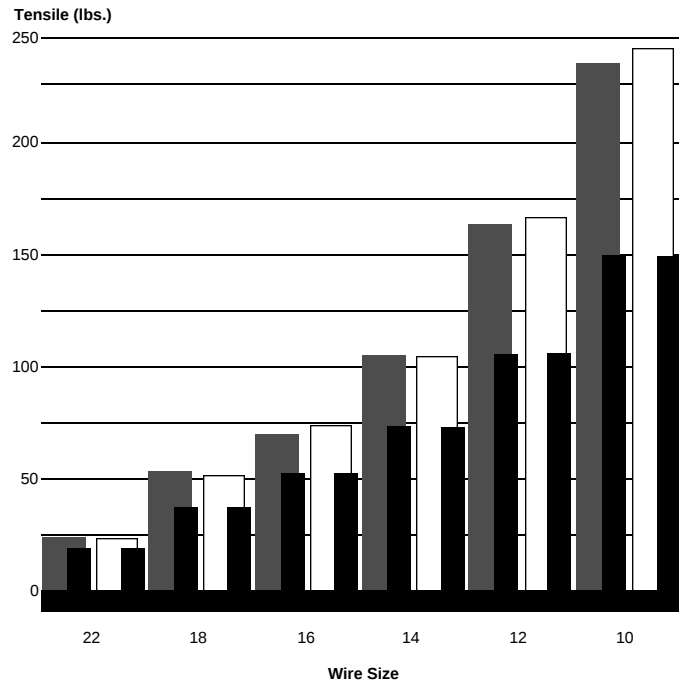
Military Tensile Test Results

Tensile Requirements Per MIL-T-7928G

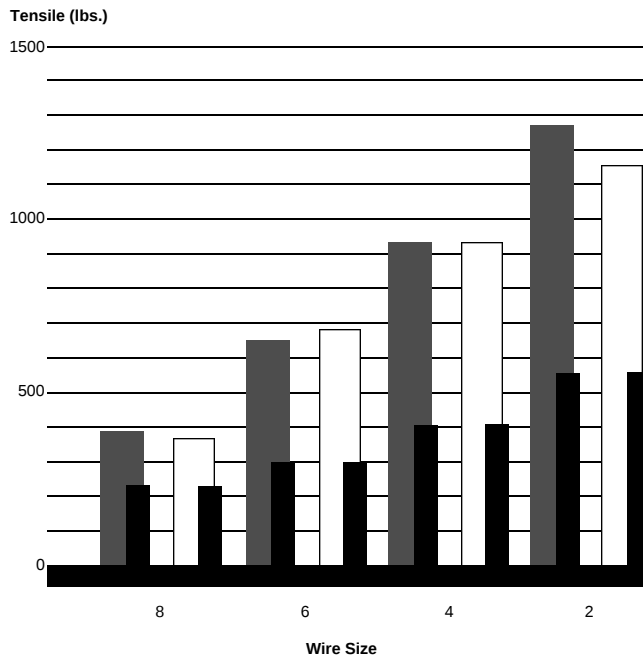
Wire Size AWG	Minimum Tensile Strength (Lbs)
22	15
20	19
18	38
16	50
14	70
12	110
10	150
8	225
6	300
4	400
2	550
1/0	700
2/0	750
3/0	825
4/0	875

Note: 1. Samples tensile tested to destruction at a rate of one inch/minute using military approved wire.

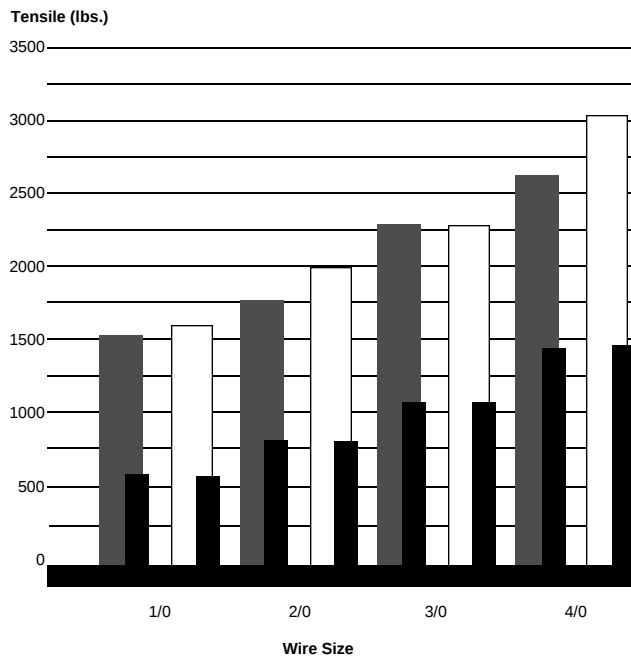
SOLISTRAND Tensile Test Results Wire Sizes 22 – 10



SOLISTRAND Tensile Test Results Wire Sizes 8 – 2



SOLISTRAND Tensile Test Results Wire Sizes 1/0 – 4/0



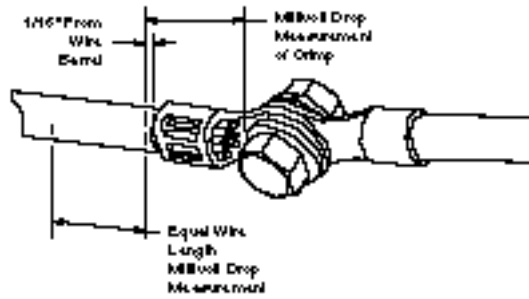
Tensile after
Vibration

Tensile after
Salt Spray

MIL-T-7928
Requirement

Illustration of Millivolt Drop Measurement Procedure

Military Specification MIL-T-7928G

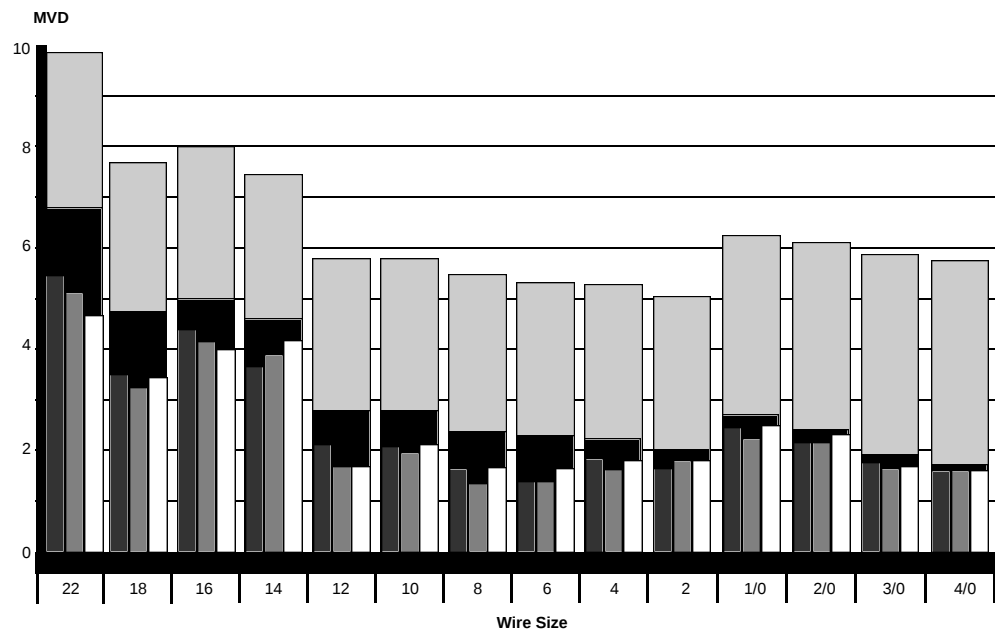
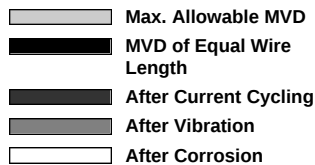


Wire Size AWG	Test Current (Amperes)	Maximum Crimp MVD = EWL Measurement + Value Listed Below	
		Initial Terminal	Final Terminal
22	9		
20	11		
18	16		
16	22		
14	32		
12	41	1	3
10	55		
8	73		
6	101		
4	135		
2	181		
1/0	245		
2/0	283	2	4
3/0	328		
4/0	380		

Military Millivolt Drop Test Results

SOLISTRAND Millivolt Drop Results Per MIL-T-7928G

Using Military
Approved Wire



Description of UL 486A Test Procedures and Requirements for Terminals

Wire Size Range

AWG 22 to 600 MCM

Test Sequences

Test Group 1

Mechanical Sequence

1. Secureness
2. Pullout

Test Group 2

Mechanical Sequence

1. Secureness
2. Static Heat
3. Pullout

Pullout Test Requirements

Terminal must not be separate from wire when subjected to the listed load for one minute.

Wire Size AWG	Pullout Force (lbs.)
22	8
20	13
18	20
16	30
14	50
12	70
10	80
8	90
6	100
4	140
2	180
1/0	250
2/0	300
3/0	350
4/0	450
250	500
300	550
350	600
400	650
500	800
600	900

Note: Testing conducted on non-plated copper wire with UL approved insulation.

Static Heat Test Requirements

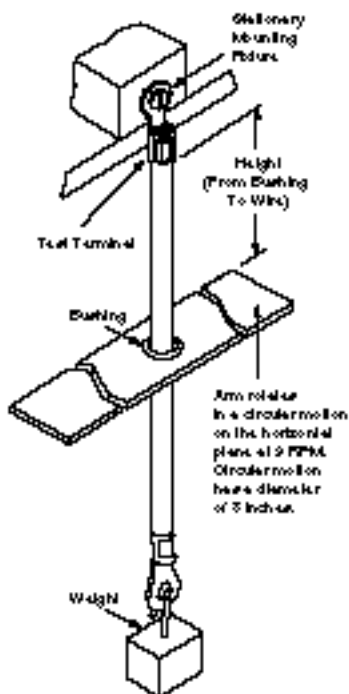
Wire Size AWG	Test Current (Amperes)
22	9
20	12
18	17
16	18
14	30
12	35
10	50
8	70
6	95
4	125
2	170
1/0	230
2/0	265
3/0	310
4/0	360
250	405
300	445
350	505
400	545
500	620
600	690

Requirement:

Connector temperatures must not exceed the ambient temperature plus 50°C [90°F] after stability is attained.

Stability:

A test sample is considered to have attained a stable temperature when three readings taken at not less than 10 minute intervals show no more than a 2°C [3.6°F] variation between any two readings.



Secureness Test Requirements

Wire Size AWG	Bushing Dia.	Height	Weight (lbs.)
18-16	1/4	10 1/4	2
14	3/8	11	3
12-10	3/8	11	5
8	3/8	11	8
6	1/2	11 3/4	18
4	1/2	11 3/4	30
2	9/16	12 1/2	30
1/0	5/8	13 1/2	50
2/0	3/4	14 1/2	50
3/0	3/4	14 1/2	60
4/0	3/4	14 1/2	60
250	7/8	16	60
300	7/8	16	80
350-400	1	17	80
500-600	1 1/8	18 1/4	100

Note: Test Duration = 30 Minutes



Description of UL 486A & C Test Procedures and Requirements for Butt and Parallel Type Splices

UL 486 C Wire Size AWG 22 to 6

UL 486 A Wire Size AWG 4 to 600 MCM

Test Sequences

Test Group 1

Mechanical Sequence

1. Secureness
2. Pullout

Test Group 2

Mechanical Sequence

1. Secureness
2. Static Heat
3. Pullout

Pullout Test Requirements

Splices must not be separate from wire when subjected to the listed load for one minute.

Wire Size AWG	Pullout Force (lbs.)
22	8
20	10
18	10
16	15
14	25
12	35
10	40
8	45
6	50
4	140
2	180
1/0	250
2/0	300
3/0	350
4/0	450
250	500
300	550
350	600
400	650
500	800
600	900

Note: Testing conducted on non-plated copper wire with UL approved insulation.

Static Heat Test Requirements

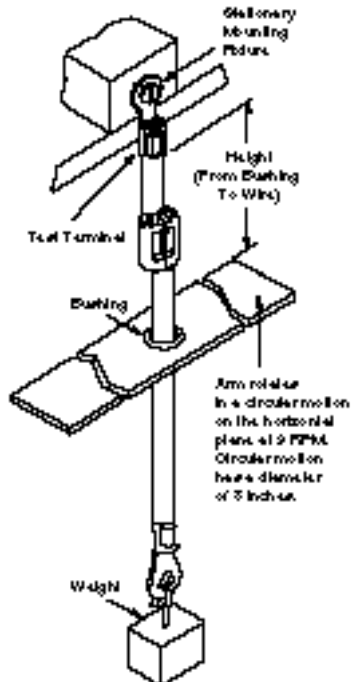
Wire Size AWG	Test Current (Amperes)
22	9
20	12
18	17
16	18
14	30
12	35
10	50
8	70
6	95
4	125
2	170
1/0	230
2/0	265
3/0	310
4/0	360
250	405
300	445
350	505
400	545
500	620
600	690

Requirement:

Connector temperatures must not exceed the ambient temperature plus 50°C [90°F] after stability is attained.

Stability:

A test sample is considered to have attained a stable temperature when three readings taken at not less than 10 minute intervals show no more than a 2°C [3.6°F] variation between any two readings.



Secureness Test Requirements

Wire Size AWG	Bushing Dia.	Height	Weight (lbs.)
18-16	1/4	10 1/4	2
14	3/8	11	3
12-10	3/8	11	5
8	3/8	11	8
6	1/2	11 3/4	18
4	1/2	11 3/4	30

Note: Test Duration=30 Minutes

Application Tooling Information for SOLISTRAND, Budget and DIAMOND GRIP Products

Wire Size Range AWG 26 to 6

Product Type	AMP Wire Size	Hand Tools	Pneumatic Tooling		Dies for 6-26, Tool 189721-1 Requires Straight Action Adapter 217200-1 or 318161-1 Dies Also Fit 69710-1 Hand Tool	Tooling For Tape Mounted Products
			Crimping Heads for 6-26, Tool 189721-1	Dies for 69875 AMP-TAPETRONIC AMP-O-LECTRIC [®] Requires Applicator AMPOMATOR CLS IV Requires Applicators		
						Single Wire Range
All SOLISTRAND terminals and splices except for Flag Tongue terminals	26-22	69363 ²	—	—	—	—
	24-20		—	—	—	—
	22-16	49935 ²	314516-1	679301-1	47812	68240-1
	16-14		314517-1	679301-1	47813	68241-1
	12-10 & 16-14 HD	58546-1 ³	—	679301-1	47814 ¹	68242-1
	14-12	49592 ²	314518-1	—	—	90566-1
	8	—	679302-1	—	—	68243-1
	6	—	679303-1	—	—	—
Flag Tongue terminals only	16-14	49975 ²	217204-1	—	—	Flag terminals not available in tape mounted form
	12-10	49965 ²	217203-1			
Budget terminals and splices	26-22	69363 ²	—	—	—	—
	22-16	58508-1 ⁴				68259-1
	16-14	58508-1 ⁴				68094
	12-10 & 16-14 HD	49656, 58508-1 ⁴				68260-1
DIAMOND GRIP terminals and splices	26-22	48070	—	—	—	69902
	24-20	—	—	—	—	—
	22-16	49512	—	—	—	69903
	16-14	49513	—	—	46251-2	69904
	12-10 & 16-14 HD	59054	—	—	—	—
Standard "B" terminals	26-22	—	—	—	—	—
	22-16	48364	—	—	—	—
	16-14	—	—	—	—	—
	12-10	49736	—	—	—	—
	8	49737	—	—	—	—

¹For standard wire only.

²CERTI-CRIMPHand Tool.

³Contains die set 58545-1. PRO-CRIMPER II commercial tool not approved for UL applications.

⁴Contains die set 58509-1. PRO-CRIMPER II commercial tool not approved for UL applications. Not approved for use with Budget Spring Spade terminals.

⁵With locator, for terminals only.

⁶Call Tooling Assistance Center for Machine & Applicator part numbers.

Chart lists common AMP Application Tooling. For additional information call the Tooling Assistance Center 1-800-722-1111.

Application Tooling Information for SOLISTRAND Terminals and Splices

Wire Size Range
AWG 8 to 600 MCM

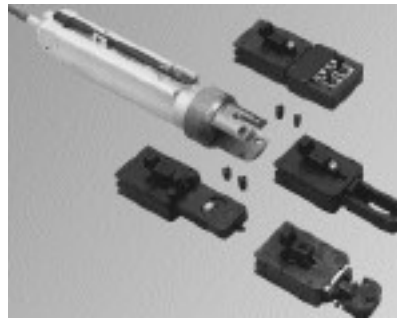
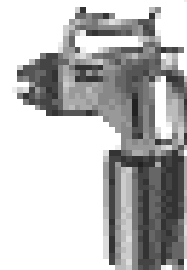
			Pneumatic Tooling	Hydraulic Tools With Self-Contained Dies			Hydraulic and Battery Powered Tools With Interchangeable Dies					Tooling For Tape Mounted Product		
Product Type	AMP Wire Size	Hand Tool	69015	Hand Tool	Latch Head	59973-1 Hand Tool, 69065 ¹ & 69067 ¹ Latch Heads		69097 ² "C" Head		59445-1 ² Latch Head	69082 ² "C" Head	69099 ² "C" Head	Dies for 69875 AMP-TAPETRONIC	Dies for 69250-1 HD AMP-TAPETRONIC
						Listed dies are single indent. See product information for proper tape application tooling selection.								
						Nest	Indent	Nest	Indent					
Standard Terminals and Splice	8	69065 ¹	49956			48126	48055	46146	46145			69216	69243-1	69312-1
	6	59083 No CERTI-CRIMP	48172	59975-1	69069 ²	48128		46134				69217		69313-1
	4	59131	48173			48129	48127	46135	46133			69218		
	2		48174			48130		46136				45433		
	1/0		48183			48132		46138	46137			45436		
	2/0					48133	48131					45439		
	3/0					48134						45442		
	4/0					900490						45445		
	250-300 MCM									48816	69911			
	300-350 MCM									48817	69912			
	400 MCM									48818	69913			
	500-600 MCM									48819	69914			
Heavy Duty Terminals	8 HD					48128-1								
	6 HD					48129-1	48127-1							
	4 HD					48130-1								
	2 HD					48132-1	48131-1							
	1/0 HD					48133-1								
Tooling for Flag Terminals only	8		48412			Only the 69067 head can be used for Flag terminals								
	6		48413			48506	48505							
	4		48414			48508								
	2		48415			48509	48507							
	1/0		48416			48510								
	2/0					48505								
	3/0					48506	48511							
	4/0					48507								

¹CERTI-CRIMP Hand Tool.

²These crimping heads are recommended for use only with AMP Hydraulic Hand Pump 314979-1, DYNA-CRIMP Hydraulic Power Units 69120-1 (115 VAC) and 69120-2 (230 VAC), and with DYNA-CRIMP II Battery Operated Hydraulic Power Unit 122271-1. See pages 55 & 56.

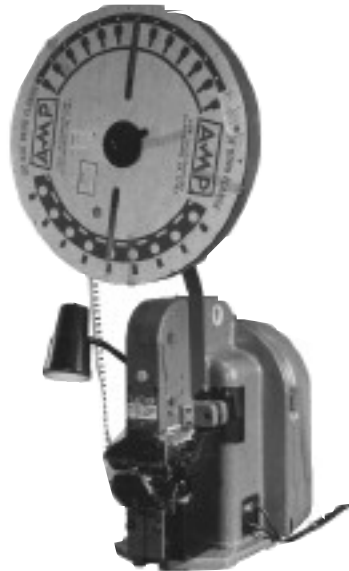
Chart lists common AMP Application Tooling. For additional information call the Tooling Assistance Center 1-800-722-1111.

Application Tooling

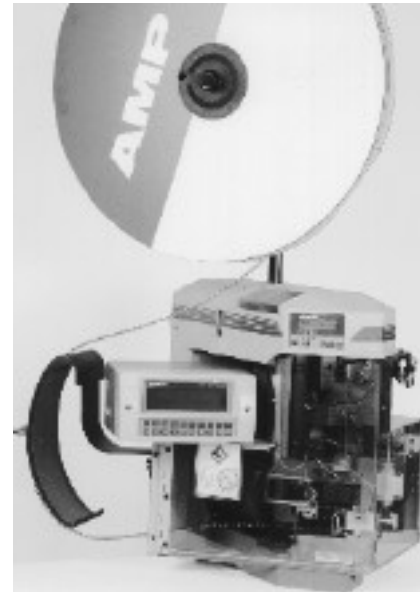
**Loose Form Terminal
and Splice Tooling****CERTI-CRIMP Hand Tools****Double Action
Hand Tool****Heavy Head Hand Tool
Part No. 69355****"C" Head Straight
Action Hand Tool
Part No. 69710-1****PRO-CRIMPER II
Hand Tool
Part No. 58546-1 SOLISTRAND
58508-1 Budget****Pneumatic Tools****6-26 Pneumatic Tool
Part No. 189721-1****Part No. 69015****Hydraulic Hand Tools****Part No. 59975-1
(Self Contained Dies)****Part No. 59973-1
(Dies Required)****For additional tooling information, call 1-800-722-1111.**

Application Tooling (Continued)

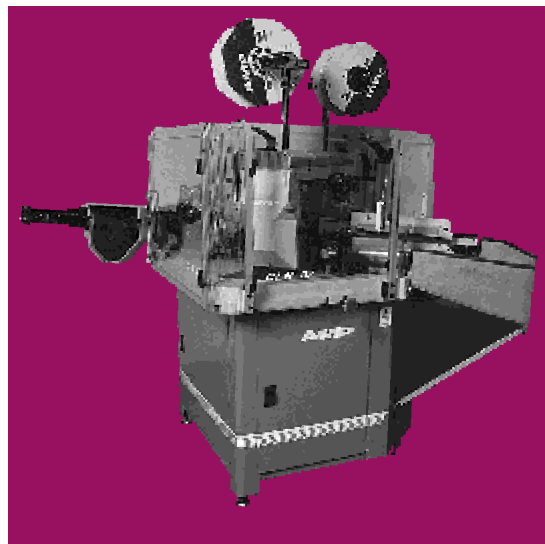
Tape Mounted



AMP-TAPETRONIC Machine
69875, 68250-1
(Requires Dies)



AMP-O-LECTRIC, Model "G" Machine
(Requires Applicator and Dies)



AMPOMATOR CLS IV Machine 217500-1
(Requires Applicators and Dies)



Entry Level Terminator
(Requires Applicators and Dies)

For additional tooling information, call 1-800-722-1111.

Application Tooling (Continued)

Latch Heads and Dies



Part No.
69065



Part No.
58445-1



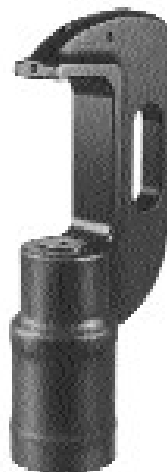
Part No.
69067



Part No. 69069
(Self Contained Dies)



Part No.
69099



Part No.
69082



Part No.
69097

For additional tooling information, call 1-800-722-1111.

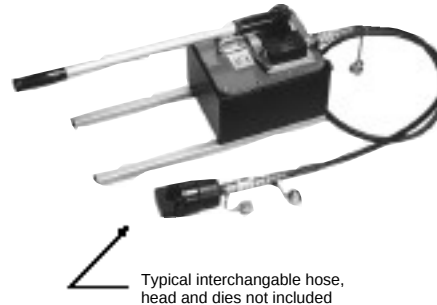
Application Tooling (Continued)

DYNA-CRIMP II Battery Operated Hydraulic Power Unit



Part No. 122271-1⁴

Hand Operated Power Unit



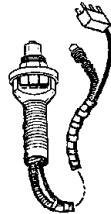
314979-1² (Hose, head and dies not included)
Refer to the table below for accessories.

DYNA-CRIMP Electric Hydraulic Power Unit

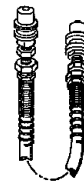


Power Unit Only
(Includes Pressure Release)
115 Volts (60 Hz) — 69120-1³
230 Volts (60 Hz) — 69120-2³

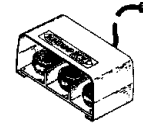
AMP application tools are designed to produce a carefully controlled uniform pressure crimp, regardless of how they are powered. All tools shown are specially designed for AMP products and are precision machined from hard tool steel.



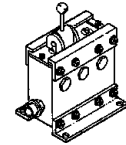
Handle
Control



Hose
Assembly



Foot
Control



Multidirectional
Valve

Power Units Accessories

For Use With Power Unit No.	Accessory Description	Accessory Part No.	Remarks
69120-1 ³ 69120-2 ³ 314979-1 ² 122271-1 ⁴	7' Handle Control Assembly—Hose & Cord	59907-7	
	15' Handle Control Assembly—Hose & Cord	1-59907-5	
	21' Handle Control Assembly—Hose & Cord	2-59907-1	
	28' Handle Control Assembly—Hose & Cord	2-59907-8	
	15' Foot Switch Assembly	68284-1	Need Hose Assembly
	3' Hose Assembly	59909-3	68284-1 Foot Switch Assembly needed with these Hose Assemblies and 69120
	7' Hose Assembly	59909-7	
	15' Hose Assembly	1-59909-5	
	21' Hose Assembly	2-59909-1	
	2' Hose Assembly (1/4" I.D.)	314990-1	More Flexible, Lighter Weight. Recommended for use with DYNA-CRIMP II Battery Operated Hydraulic Power Unit
	3' Hose Assembly (1/4" I.D.)	314990-2	
	7' Hose Assembly (1/4" I.D.)	314990-3	
	15' Hose Assembly (1/4" I.D.)	314990-4	
69120-1 ³	3-Way Multi-Directional Valve	59220 ¹	For use with Foot Switch only
69120-2 ³	3-Way Multi-Directional Valve (Elec.Ctl)	59220-2 ¹	

¹ Contact AMP Incorporated for usage recommendations.

² Also see AMP Customer Manual 409-5860.

³ Also see AMP Customer Manual 409-1950.

⁴ Also see AMP Customer Manual 409-5869.

Note: All Hoses and Handle Control Assemblies have a 3/8" high flow male coupler (311470-1) on each end.
All Power Units and Heads have a 3/8" high flow female coupler (311471-1).

For additional tooling information, call 1-800-722-1111.

Part Number Index

Note: This numerical index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

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36886	36	53006	27	320749	30	321582	34
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36915	17	53010	28	320758	22	321600	17
36916	17	53011	28	320759	22	321621	38
36917	17	53012	28	320760	15	321625	19
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Americas

Argentina – Buenos Aires
Phone: + 54-1-733-2000
Fax: + 54-1-717-0988

Brazil – Sao Paulo
Phone: + 55-11-861-1311
Fax: + 55-11-861-0397

Canada – Toronto
Phone: + 1-905-475-6222
Fax: + 1-905-474-5520

Chile – Santiago
Phone: + 56-2-739-1230
Fax: + 56-2-739-1227

Colombia – Bogota
Phone: + 57-1-231-9398
Fax: + 57-1-240-3769

Mexico – Mexico City
Phone: + 52-5-729-0400
Fax: + 52-5-361-8545

United States – Harrisburg, PA
Phone: + 1-717-564-0100
Fax: + 1-717-986-7575

Venezuela – Caracas
Phone: + 58-2-986-7774
Fax: + 58-2-986-9739

For Latin/South American Countries not shown
Phone: +54-11-4733-2015
Fax: +54-11-4733-2083

Asia/Pacific

Australia – Sydney
Phone: + 61-2-9840-8200
Fax: + 61-2-9899-5649

India – Bangalore
Phone: + 91-80-841-0200
Fax: + 91-80-841-0210

Indonesia – Jakarta
Phone: + 6221-526-7852
Fax: + 6221-526-7856

Japan – Tokyo
Phone: + 81-44-844-8111
Fax: + 81-44-812-3207

Korea – Seoul
Phone: + 82-2-3274-0535
Fax: + 82-2-3274-0524/0531

Malaysia – Selangor
Phone: + 60-3-7053055
Fax: + 60-3-7053066

New Zealand – Auckland
Phone: + 64-9-634-4580
Fax: 64-9-634-4586

People's Republic of China
Hong Kong
Phone: + 852-2735-1628
Fax: + 852-2735-0243

Shanghai
Phone: + 86-21-6485-0602
Fax: + 86-21-6485-0728
Shunde
Phone: + 86-765-7751368
Fax: + 86-765-7752823

Philippines – Makati City
Phone: + 632-867-8641
Fax: + 632-867-8661

Singapore – Singapore
Phone: + 65-482-0311
Fax: + 65-482-1012

Taiwan – Taipei
Phone: + 886-2-2325-0391
Fax: + 886-2-2325-0398

Thailand – Bangkok
Phone: + 66-2-955-0500
Fax: + 66-2-955-0505

Vietnam – Ho Chi Minh City
Phone: + 84-8-8232-546/7
Fax: + 84-8-8221-443

Europe/Middle East/Africa

Austria – Vienna
Inside: Phone: + 0222-277-97-0
Fax: + 0222-277-97-333

Outside: Phone: + 43-1-277-97-0
Fax: + 43-1-277-97-333

Belgium – Kessel - Lo
Phone: + 32-16-35-23-00
Fax: + 32-16-35-23-52

Bulgaria – Sofia
Phone: + 359-2-971-2152
Fax: + 359-2-971-2153

Czech Republic – Kurim
Phone: + 420-5-41-162-111
Fax: + 420-5-41-162-223

Denmark – Viby
Phone: + 45-86-295-055
Fax: + 45-86-295-133

Egypt – Cairo
Phone: + 202-417-76-47
Fax: + 202-419-23-34

Estonia – Haabneeme
Phone: + 372-6205-900
Fax: + 372-6205-980

Finland – Helsinki
Phone: + 358-9-512-34210
Fax: + 358-9-512-34250

France – Cergy - Pontoise
Phone: + 33-1-3420-8888
Fax: + 33-1-3420-8600

Germany – Bensheim
Phone: + 49-6251-133-0
Fax: + 49-6251-133-600

Germany – Neunkirchen - HTS Div.
Phone: + 49-2247-305-0
Fax: + 49-2247-305-122

Great Britain – London
Phone: + 44-208-954-2356
Fax: + 44-208-954-6234

Greece – Athens
Phone: + 30-1-9370-396/7
Fax: + 30-1-9370-655

Holland – 's-Hertogenbosch
Phone: + 31-73-624-62-46
Fax: + 31-73-621-23-65

Hungary – Budapest
Phone: + 36-1-350-8633
Fax: + 36-1-350-8634

Ireland – Dublin
Phone: + 353-1-820-3000
Fax: + 353-1-820-9790

Israel – Tel Aviv
Phone: + 972-3-649-1482
Fax: + 972-3-648-4041

Italy – Torino
Phone: + 39-011-4012-111
Fax: + 39-011-4031-116

Lithuania – Vilnius
Phone: + 370-2-231-402
Fax: + 370-2-231-403

Norway – Nesbru
Phone: + 47-66-77-8899
Fax: + 47-66-77-8855

Poland – Warsaw
Phone: + 48-22-611-59-30
Fax: + 48-22-672-47-88

Portugal – Lisbon
Phone: + 351-1-387-70-16
Fax: + 351-1-387-71-72

Romania – Bucharest
Phone: + 40-1-311-3479/3596
Fax: + 40-1-312-0574

Russia - Moscow
Phone: + 7-095-926-5506/07/08/09
Fax: + 7-095-926-5505

Russia - St. Petersburg
Phone: + 7-812-325-30-83
Fax: + 7-812-325-32-88

Slovakia – Banska Bystrica
Phone: + 421-88-415-20-11/12
Fax: + 421-88-415-20-13

Slovenia – Ljubljana
Phone: + 386-61-161-3270
Fax: + 386-61-161-3240

South Africa – Midrand
Phone: + 27-11-314-10-89
Fax: + 27-11-314-19-10

Spain – Barcelona
Phone: + 34-93-291-0330
Fax: + 34-93-201-7879

Sweden – Upplands Vasby
Phone: + 46-8-50-72-50-00
Fax: + 46-8-50-72-50-01

Switzerland – Steinach
Phone: + 41-71-447-0447
Fax: + 41-71-447-0444

Turkey – Istanbul
Phone: + 90-212-281-8181/2/3
Fax: + 90-212-281-8184

Ukraine – Kiev
Phone: + 38-044-246-5501
Fax: + 38-044-246-5501

For Middle East/African Countries not shown
Phone: +33-1-34-20-83-83
Fax: +33-1-34-20-86-09