



Introduction

Product Facts

- Designed for large cables and leads
- Ideally suited for power generation and distribution
- Accepts a wide range of stranded copper wires (6 AWG to 1000 MCM [13–507 mm²] for terminals and up to 1500 MCM [760 mm²] for splices)
- Available in a variety of terminal and splice styles
- High-quality, seamless tubular copper for maximum conductivity
- Listed by Underwriters Laboratories, Inc. File No. E12388, Spec. 486 
- Certified by Canadian Standards Association File No. LR7189 



The AMPOWER product line is available in a variety of terminal and splice styles to suit your design requirements.

AMPOWER terminals and splices are ideally suited for power generation and distribution.

This makes electrical equipment subject to continuous operation, such as generators, motors and welders, a perfect application for AMPOWER products.

In addition, other applications include interconnections of power supplies to computers and peripheral equipment.

Table Listing: mm² to AWG

**Overview Wire Sizes
mm² to AWG
(American Wire Gauge)**

Wire Sizes	
(mm ²)	(AWG)
13-15	6
21	4
34-35	2
50-60	1/0
67-70	2/0
80-95	3/0
100-125	4/0
127	250 MCM
152	300 MCM
177	350 MCM
203	400 MCM
253	500 MCM
304	600 MCM*
	600 MCM HD*
355	700 MCM*
405	800 MCM*
456	900 MCM*
507	1000 MCM*
634	1250 MCM*
761	1500 MCM*

*) Terminals and splices of wire size 600 MCM and above require two crimps for optimum mechanical and electrical performance.

**Overview
Class 2 and Class 5
Wire Sizes**

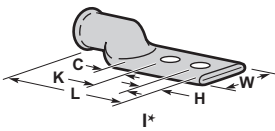
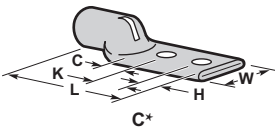
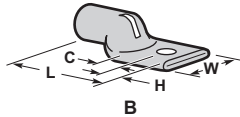
Rigid Stranded Wires (Class 2)	Flexible Wires (Class 5)
Wire Sizes (mm ²)	
10.0	6.0
16.0	10.0
25.0	16.0
35.0	25.0
50.0	35.0
70.0	50.0
95.0	70.0
120.0	95.0
150.0	120.0
185.0	150.0
240.0	185.0
300.0	240.0

AMPOWER Terminals

Base Material

Annealed Copper:
ASTM B-188**

Electrodeposited Tin Plate:
MIL-T-10727



Wire Size	Wire Range	Barrel I.D. Min.	Tongue Thickness Max.	Style	Stud Size	Dimensions					Part Number
						L Max.	H Max.	C Min.	K	W Max.	
6 AWG** 13-15 mm ²	20,800-33,100 CM	.219 5.56	.08 2.03	B	10	1.41	.32	.42	-	.69	328141
					1/4 M6	1.41	.32	.42	-	.69	328142
					5/16 M8	1.41	.32	.42	-	.69	328143
4 AWG** 21 mm ²	33,100-52,600 CM	.275 6.99	.08 2.03	B	1/4 M6	1.41	.32	.42	-	.69	328162
					5/16 M8	1.41	.32	.42	-	.69	328163
					3/8 -	1.41	.32	.42	-	.69	328164
2 AWG 34-35 mm ²	52,600-83,700 CM	.362 9.19	.09 2.29	B	1/4 M6	1.62	.34	.50	-	.71	325201
					5/16 M8	1.62	.34	.50	-	.71	325202
					3/8 -	1.62	.34	.50	-	.71	325203
1/0 AWG 50-60 mm ²	83,700-119,500 CM	.458 11.63	.10 2.54	B	3/8 -	2.63	.34	.50	1.00	.71	326799
					1/4 M6	1.97	.42	.62	-	.87	325301
					5/16 M8	1.97	.42	.62	-	.87	325302
2/0 AWG 67-70 mm ²	119,500-150,500 CM	.513 13.03	.11 2.79	B	3/8 -	1.97	.42	.62	-	.87	325303
					1/2 M12	1.97	.42	.62	-	.87	325305
					3/8 -	2.98	.42	.62	1.00	.87	326800
3/0 AWG 80-85 mm ²	150,500-190,000 CM	.576 14.63	.12 3.05	B	1/4 M6	2.11	.47	.62	-	.97	325401
					5/16 M8	2.11	.47	.62	-	.97	325402
					3/8 -	2.11	.47	.62	-	.97	325403
4/0 AWG 100-125 mm ²	190,000-231,000 CM	.648 16.46	.13 3.30	B	1/2 M12	2.11	.47	.62	-	.97	325405
					3/8 -	3.12	.47	.62	1.00	.97	326801
					5/16 M8	2.26	.52	.62	-	1.08	325502
100-125 mm ²	190,000-231,000 CM	.648 16.46	.13 3.30	B	3/8 -	2.26	.52	.62	-	1.08	325503
					1/2 M12	2.26	.52	.62	-	1.08	325505
					3/8 -	3.27	.52	.62	1.00	1.08	326802
100-125 mm ²	190,000-231,000 CM	.648 16.46	.13 3.30	B	5/16 M8	2.45	.59	.62	-	1.19	325602
					3/8 -	2.45	.59	.62	-	1.19	325603
					1/2 M12	2.45	.59	.62	-	1.19	325605
100-125 mm ²	190,000-231,000 CM	.648 16.46	.13 3.30	C	3/8 -	3.46	.59	.62	1.00	1.19	326803
					1/2 M12	4.21	.59	.62	1.75	1.19	327284
					1/2 M12	4.94	.59	.62	1.75	1.19	353683-2

* Per NEMA specification.

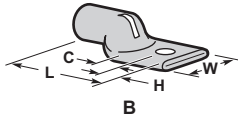
** Terminals for wire sizes 6 AWG and 4 AWG are manufactured from annealed copper ASTM B-152.

AMPOWER Terminals (continued)

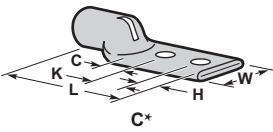
Base Material

Annealed Copper:
ASTM B-188

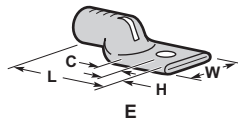
Electrodeposited Tin Plate:
MIL-T-10727



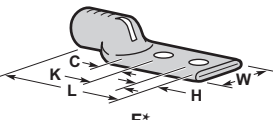
B



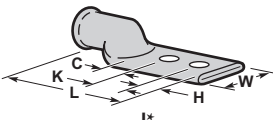
C*



E



F*



I*

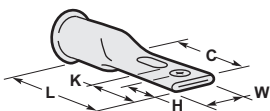
Wire Size	Wire Range	Barrel I.D. Min.	Tongue Thickness Max.	Style	Stud Size	Dimensions					Part Number	
						L Max.	H Max.	C Min.	K	W Max.		
250 MCM 127 mm ²	231-275 MCM	.690 17.53	.15 3.81	B	3/8	2.58	.63	.62	-	1.28	325703	
					-	65.53	16.00	15.75	-	32.51		
300 MCM 152 mm ²	275-325 MCM	.758 19.25	.16 4.06	B	1/2	2.58	.63	.62	-	1.28	325705	
					M12	65.53	16.00	15.75	-	32.51		
				C	3/8	2.69	.63	.62	-	1.40	325803	
					-	68.33	16.00	15.75	-	35.56		
					1/2	2.69	.63	.62	-	1.40		325805
					M12	68.33	16.00	15.75	-	35.56		
C	5/8	2.82	.63	.75	-	1.40	325807					
	-	71.63	16.00	19.05	-	35.56						
	3/8	3.70	.63	.62	1.00	1.40		326805				
	-	93.98	16.00	15.75	25.40	35.56						
C	3/8	3.70	.63	.62	1.00	1.40	326805-1 ¹⁾					
	-	93.98	16.00	15.75	25.40	35.56						
	1/2	4.43	.63	.62	1.75	1.40		327286				
	M12	112.52	16.00	15.75	44.45	35.56						
350 MCM 177 mm ²	325-375 MCM	.819 20.80	.17 4.32	B	3/8	2.79	.63	.62	-	1.51	325903	
					-	70.87	16.00	15.75	-	38.35		
				C	1/2	2.79	.63	.62	-	1.51	325905	
					M12	70.87	16.00	15.75	-	38.35		
					3/8	3.79	.63	.62	1.00	1.51		326806
					-	96.27	16.00	15.75	25.40	38.35		
C	1/2	4.55	.63	.62	1.75	1.51	327287					
	M12	115.57	16.00	15.75	44.45	38.35						
	1/2	4.55	.63	.62	1.75	1.51		327287-3				
	M12	115.57	16.00	15.75	44.45	38.35						
400 MCM 203 mm ²	375-450 MCM	.875 22.25	.18 4.57	B	1/2	2.89	.63	.62	-	1.61	326005	
					M12	73.41	16.00	15.75	-	40.89		
500 MCM 253 mm ²	450-550 MCM	.981 24.92	.20 5.08	C	3/8	3.90	.63	.62	1.00	1.61	326807	
					-	99.06	16.00	15.75	25.40	40.89		
				B	3/8	3.29	.76	.75	-	1.80	326103	
					-	83.57	19.30	19.05	-	45.72		
					1/2	3.29	.76	.75	-	1.80		326105
					M12	83.57	19.30	19.05	-	45.72		
C	1/2	4.80	.61	.62	1.75	1.80	327289					
	M12	121.92	15.49	15.75	44.45	45.72						
	3/8	4.05	.63	.62	1.00	1.80		326808				
	-	102.87	16.00	15.75	25.40	45.72						
I	1/2	5.88	.63	.62	1.75	1.80	53642-2					
	M12	149.35	16.00	15.75	44.45	45.72						
600 MCM 304 mm ²	550-650 MCM	1.075 27.31	.22 5.59	F	3/8	4.22	.63	.62	1.00	1.95	326809-1 ^{1) 2)}	
-	-	-	-	-	-	107.19	16.00	15.75	25.40	49.53		
800 MCM 405 mm ²	750-850 MCM	1.242 31.55	.25 6.35	E	1/2	3.72	.76	.75	-	2.26	326405 ²⁾	
-	-	-	-	-	-	94.49	19.30	19.05	-	57.40		

* Per NEMA specification

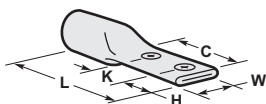
1) No sight hole.

2) Two crimps necessary

Special Terminals



Slotted Stud Hole



Centerline 2-Hole

Wire Size	Wire Range	Barrel I.D. Min.	Tongue Thickness Max.	Stud Size	Dimensions					Part Number
					L Max.	H Max.	C Min.	K	W Max.	
Slotted Stud Hole										
400 MCM	375-450 MCM	.876	.18	3/8	5.82	.44	3.29	1.30	1.61	276963-1
-	-	22.25	4.57	-	147.83	11.18	83.57	33.02	40.89	
500 MCM	450-550 MCM	.981	.20	3/8	6.01	.44	3.25	1.30	1.80	276964-1
-	-	24.92	5.08	-	6.35	11.18	82.55	33.02	45.72	
Centerline 2-Hole										
444.4 MCM	444.4 MCM	.991	.26	3/8	4.01	.45	2.00	1.00	1.26	326151-1
-	-	25.17	6.60	-	101.85	11.43	50.80	25.40	32.00	

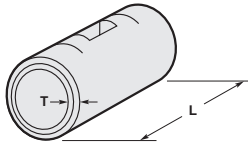
Butt Splices

Wire Size Range:
2 AWG to 1,500 MCM
(34 to 760 mm²)

Base Material

Annealed Copper:
ASTM B-188

Electrodeposited Tin Plate:
MIL-T-10727



Wire Size	Wire Range	Barrel Inner Diameter Min.	Dimensions		Part Number
			T	L Max.	
1/0 AWG	83,700–119,500 CM	.468 11.89	.042 1.07	1.24 31.50	1-324458-0
3/0 AWG	150,500–190,000 CM	.586 14.88	.053 1.35	1.52 38.61	1-324460-0
4/0 AWG	190–231 MCM	.658 16.71	.059 1.50	1.65 41.91	1-324461-0
250 MCM	231–275 MCM	.700 17.78	.065 1.65	1.79 45.47	1-324462-0
300 MCM	275–325 MCM	.768 19.51	.071 1.80	1.93 49.02	1-324463-0
300 MCM	275–325 MCM	.768 19.51	.071 1.80	2.18 55.37	2-324463-5
350 MCM	325–375 MCM	.829 21.06	.077 1.96	2.06 52.32	1-324464-0
500 MCM	450–550 MCM	.991 25.17	.092 2.34	2.41 61.21	1-324466-0
600 MCM*	550–650 MCM	1.085 27.56	.101 2.57	2.61 66.29	1-324467-0
700 MCM*	650–750 MCM	1.172 29.77	.109 2.77	2.79 70.87	1-324468-0
800 MCM*	750–850 MCM	1.252 31.80	.118 3.00	2.96 75.18	1-324469-0
1000 MCM*	950–1125 MCM	1.400 35.56	.131 3.33	3.27 83.06	2-324471-0

* Two crimps necessary on each end

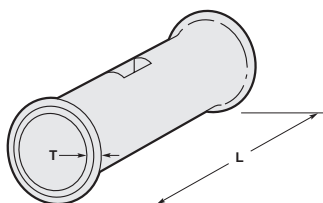
Long Barrel Butt Splices

Wire Size Range:
1/0 AWG to 500 MCM
(50 to 253 mm²)

Base Material

Annealed Copper:
ASTM B-188

Electrodeposited Tin Plate:
MIL-T-10727



Wire Size	Wire Range	Barrel Inner Diameter Min.	Dimensions		Part Number
			T	L Max.	
500 MCM	450–550 MCM	.991 25.17	.092 2.34	4.75 120.65	53089

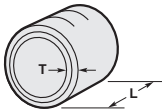
Parallel Splices

Wire Size Range:
2 AWG to 1,000 MCM
(34 to 507 mm²)

Base Material

Annealed Copper:
ASTM B-188

Electrodeposited Tin Plate:
MIL-T-10727



Wire Size	Wire Range	Barrel Inner Diameter Min.	Dimensions		Part Number
			T	L Max.	
1/0 AWG	83,700–119,500 CM	.468 11.89	.042 1.07	.58 14.73	1-324443-0
2/0 AWG	119,500–190,000 CM	.523 13.28	.047 1.19	.64 16.26	1-324444-0
3/0 AWG	150,500–190,000 CM	.586 14.88	.053 1.35	.71 18.03	1-324445-0
4/0 AWG	190–231 MCM	.658 16.71	.059 1.50	.77 19.56	1-324446-0
250 MCM	231–275 MCM	.700 17.78	.065 1.65	.83 21.08	1-324447-0
300 MCM	275–325 MCM	.768 19.51	.071 1.80	.89 22.61	2-324448-0
350 MCM	325–375 MCM	.829 21.05	.077 1.96	.96 24.38	2-324449-0
400 MCM	375–450 MCM	.886 22.50	.083 2.11	1.02 25.91	1-324450-0
500 MCM	450–550 MCM	.991 25.17	.092 2.34	1.11 28.19	2-324451-0
700 MCM*	650–750 MCM	1.172 29.77	.109 2.77	1.29 32.77	1-324453-0
800 MCM*	750–850 MCM	1.252 31.80	.118 3.00	1.36 34.54	1-324454-0
1000 MCM*	950–1125 MCM	1.400 35.56	.131 3.33	1.50 38.10	2-324456-0

*) Two crimps necessary

Application Tooling

DYNA-CRIMP System
8200 psi Operating Pressure

Hydraulic Head		69099	69082	68073-2	58445-1
Wire Size		Part Numbers			
(mm ²)	(AWG)	Die Set	Die Set	Die Set	Die Set
13-15	6	69133-1	-	-	-
21	4	69134-1	-	-	-
34-35	2	46765-3	-	-	-
50-60	1/0	46766-2	-	-	-
67-70	2/0	46767-2	-	-	-
80-95	3/0	46749-2	-	-	-
100-125	4/0	46750-2	-	-	-
127	250 MCM	46751-2	-	-	46751-2
152	300 MCM	46752-2	-	-	-
177	350 MCM	46753-2	69653	-	-
203	400 MCM	-	46754-2	-	-
253	500 MCM	-	46755-2	-	-
304	600 MCM*	-	46756-2	-	-
	600 MCM HD*	-	59870-1	-	-
355	700 MCM*	-	46757-2	-	-
405	800 MCM*	-	46758-2	-	-
456	900 MCM*	-	46759-2	-	-
507	1000 MCM*	-	46760-2	-	-
634	1250 MCM*	-	-	68114-1	-
761	1500 MCM*	-	-	68282-1	-

*) Terminals and splices of wire size 600 MCM and above require two crimps for optimum mechanical and electrical performance.



Pumps and Accessories, see Pages 22-16 and 22-17.

Application Tooling (continued)

Hydraulic Crimp Tooling 10000 psi Operating Pressure

Wire Size		Hand Tools (U-Die)		Hydraulic Heads (U-Die)		Hydraulic Heads (Shank Die)		
		1490748-1	1490749-1	1490745-1 1490747-1	1490746-1	1752868-1	1752788-1	1752786-1
(mm ²)	(AWG)	Die Set Part Numbers						
13-15	6	1583092-1				69133-1	-	-
21	4	1583093-1				69134-2	-	-
34-35	2	1583094-1				46765-3	-	-
50-60	1/0	1583095-1				46766-2	-	-
67-70	2/0	1583096-1				46767-2	-	-
80-95	3/0	1583097-1				46749-2	-	-
100-125	4/0	-	1583098-1	-	1583098-1	46750-2	-	-
127	250 MCM	-	-	-	-	46751-2	46326-2	-
152	300 MCM	-	-	-	-	46752-2	-	-
177	350 MCM	-	-	-	-	46753-2	-	69653
203	400 MCM	-	-	-	-	-	-	46754-2
253	500 MCM	-	-	-	-	-	-	46755-2
304	600 MCM*	-	-	-	-	-	-	46756-2
	600 MCM HD*	-	-	-	-	-	-	59870-1
355	700 MCM*	-	-	-	-	-	-	46757-2
405	800 MCM*	-	-	-	-	-	-	46758-2
456	900 MCM*	-	-	-	-	-	-	46759-2
507	1000 MCM*	-	-	-	-	-	-	46760-2

*) Terminals and splices of wire size 600 MCM and above require two crimps for optimum mechanical and electrical performance.

Pumps and Accessories, see Pages 22-16 and 22-17.

Find the latest Tooling and Equipment options for your applications at
<http://www.tooling.tycoelectronics.com/europe/handtool.stm>