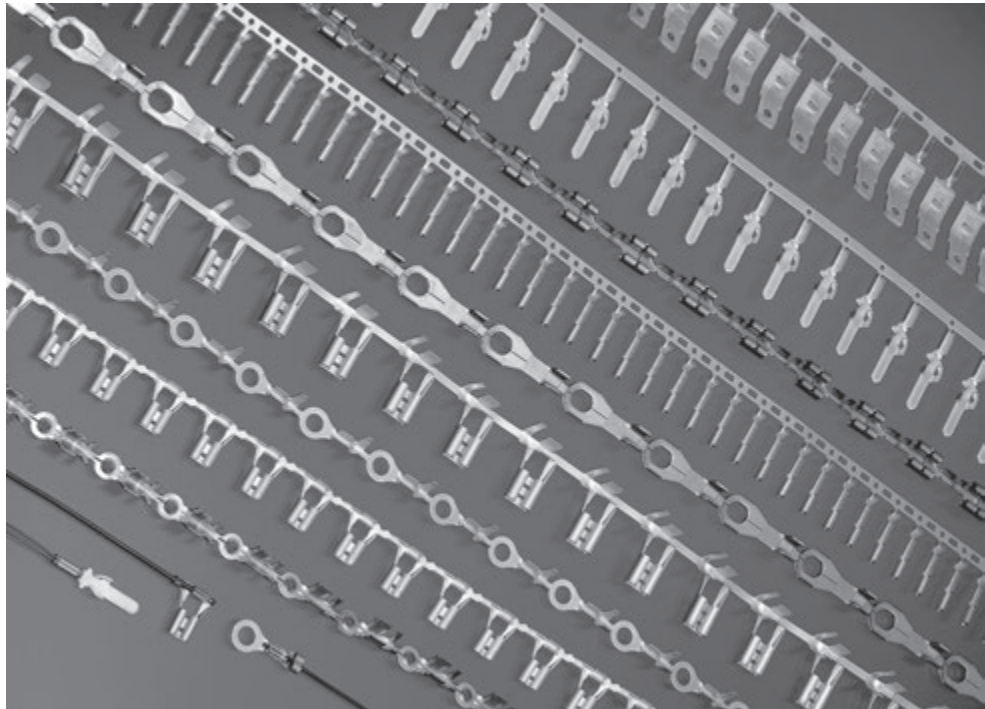


AMPLIVAR Terminals

Products Facts

- Ring tongue terminals available for 2 to 3/8 stud diameters
- FASTON tab terminals accept .125 [3.18], .187 [4.75] and .250 [6.35] receptacle terminals
- FASTON receptacle terminals accept .187 [4.75] and .250 [6.35] tab terminals
- FASTON stator receptacle accept .250 x .032 [6.35 x 0.81] tab terminal
- Pin receptacle terminals accept .062 [1.57] and .090 [2.29] diameter pins



Applications

- Motor windings
- Transformers
- Power supplies
- Starters and alternators

AMPLIVAR magnet wire terminals are designed to terminate copper and/or aluminum magnet wire. Terminals are insulation displacing; therefore, magnet wires do not require a separate prestripping operation.

The unique wire barrel design, with serrations and burrs, produces a superior metal-to-metal compression crimp with excellent tensile strength.

Terminals are available in a variety of ring tongue, FASTON straight, flag and stator receptacles and tab quick-disconnect style terminals.

Direct connection to magnet wire eliminates the need for separate stranded wire terminal connection to input/output devices.

Matched with automated application tooling allows high production rates for stripform terminals.

Product specifications describe the product qualification test results completed by TE for consideration of product use in a specific application. They are intended for the Design and Product Reliability Engineer.

108-16000 —AMPLIVAR ring tongue terminals

108-1718 —AMPLIVAR .125 blade terminals [Type A]

Technical Documents

Application Specifications describe requirements for using the product in its intended application and or crimping information. They are intended for the Packaging and Design Engineer and the Machine Setup Person.

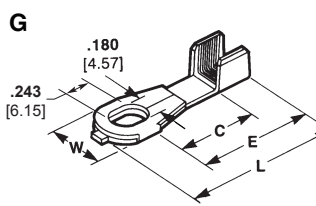
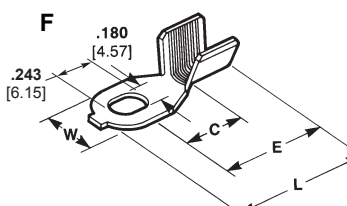
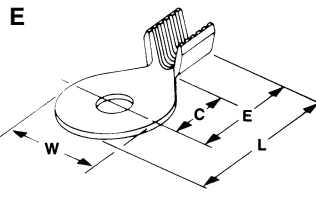
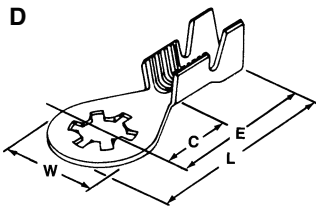
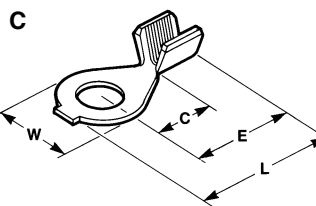
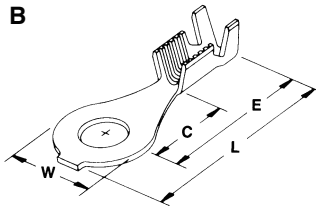
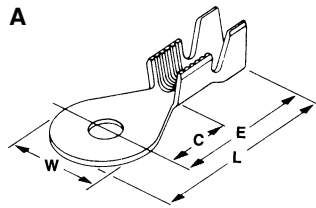
114-2145 AMPLIVAR .125 Blade Terminals
114-2146 AMPLIVAR FASTIN-FASTON Series 187 Tab Terminals
114-2070 AMPLIVAR FASTON Series 250 Tab Terminals

114-2144 AMPLIVAR FASTON Series .250 Straight Receptacle Terminals
114-2152 AMPLIVAR Flag FASTON Series 187 & 250 Receptacle Terminal

114-2080 AMPLIVAR Pin Receptacle Terminals [Type A]
114-2128 AMPLIVAR Stator Receptacle with FASTON Mating End

AMPLIVAR Terminals (Continued)

Ring Tongue Terminals



Wire Size Range 29–22 AWG [0.287–0.643 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
B	.040-.060 1.02-1.52	.197 5	10	.020 0.51	Tin Plated Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	63399-1

Wire Size Range 23–19 AWG [0.574–0.912 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
B	.100-.140 2.54-3.56	.171 4.34	8	.020 0.51	Tin Plated Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	60321-2
A	.125-.165 3.18-4.19	.171 4.34	8	.020 0.51	Tin Plated Brass	.300 7.62	.700 17.78	.550 13.97	.230 5.84	60323-2
B	.100-.140 2.54-3.56	.197 5	10	.020 0.51	Tin Plated Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	60319-2
A	.125-.165 3.18-4.19	.197 5	10	.020 0.51	Tin Plated Brass	.300 7.62	.695 17.65	.545 13.84	.230 5.84	60325-2

Wire Size Range 22–18 AWG [0.643–1.024 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
B	.125-.165 3.18-4.19	.265 6.73	1/4	.025 0.64	Tin Plated Brass	.420 10.67	.872 22.15	.662 16.81	.312 7.92	63612-1
E	—	.145 3.58	6	.025 0.64	Tin Plated Brass	.290 7.37	.500 12.7	.355 9.02	.195 4.95	63649-1
C	—	.265 6.73	1/4	.025 0.64	Tin Plated Brass	.420 10.67	.702 17.83	.492 12.5	.312 7.92	62835-1
E	—	.171 4.34	8	.025 0.64	Brass Tin Plated Brass	.290 7.37	.500 12.7	.355 9.02	.195 4.95	63446-1 63446-2

Wire Size Range 20–16 AWG [0.813–1.29 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
A	.125-.165 3.18-4.19	.171 4.34	8	.020 0.51	Tin Plated Brass	.300 7.62	.695 17.65	.545 13.84	.230 5.84	60322-2
H	—	—	8	.020 0.51	Brass	.340 8.64	1.220 30.98	.660 16.76	.500 12.7	505071-1
L	—	—	3/8	.020 0.51	Brass	.625 15.88	.939 23.85	.627 15.93	.467 11.86	505075-1
M	—	—	3/8	.020 0.51	Brass	.645 16.38	.950 24.12	.627 15.93	.467 11.86	505072-1

Wire Size Range 18–14 AWG [1.024–1.628 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
B	.100-.140 2.54-3.56	.171 4.34	8	.020 0.51	Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	60320-1
	.100-.140 2.54-3.56	.171 4.34	8	.020 0.51	Tin Plated Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	60320-2
	.100-.140 2.54-3.56	.197 5	10	.020 0.51	Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	60318-1
D	.080-.120 2.03-3.05	.173 4.39	8	.028 0.71	Lu-Bronze ¹	.370 9.4	.915 23.24	.730 18.54	.380 9.65	485079-1
	.080-.120 2.03-3.05	.185 4.7	8	.028 0.71	Lu-Bronze ¹	.365 9.27	.882 22.4	.700 17.78	.380 9.65	485044-1

¹High conductivity copper-tin-zinc alloy.

Wire Range 17–13.5 AWG [1.151–1.78 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
F	—	—	8	.020 0.51	Brass	.310 7.87	.692 17.58	.505 12.83	.312 7.92	63147-1
	—	—	8	.020 0.51	Tin Plated Brass	.310 7.87	.692 17.58	.505 12.83	.312 7.92	63147-2*

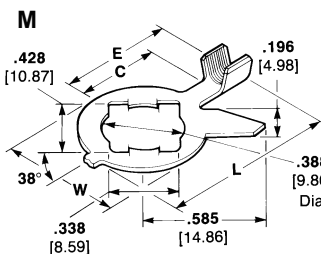
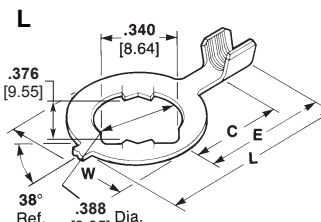
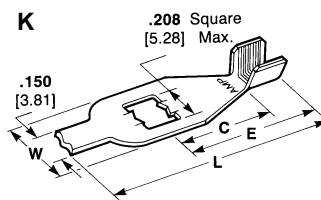
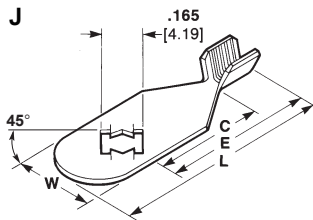
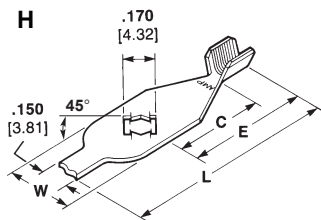
*Available on request

Wire Size Range 14–12 AWG [1.628–2.05 mm] or (2) 15 AWG [1.45 mm]

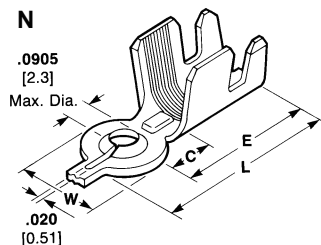
Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
G	—	—	8	.025 0.64	Brass	.342 8.69	.945 24.00	.750 19.05	.570 14.48	62755-1

AMPLIVAR Terminals (Continued)

Stud Retaining Terminals



Alternator Eyelet Terminal



Wire Size Range 13–11 AWG [1.83–2.3 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
A	.085-.150 2.16-3.81	.180 4.57	8	.025 0.64	Brass	.342 8.69	.833 21.16	.662 16.81	.312 7.92	61710-1
C	—	.180 4.57	8	.025 0.64	Tin Plated Brass	.342 8.69	.665 16.89	.495 12.57	.312 7.92	350571-1
		.197 5.00	10	.025 0.64	Tin Plated Brass	.342 8.69	.665 16.89	.495 12.57	.312 7.92	640212-1

Wire Range (1) 18 AWG [1.024 mm] and (1) 20.5 AWG [0.768 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
J	—	—	8	.020 0.51	Brass	.340 8.64	.955 24.26	.660 16.76	.500 12.7	505044-1

Wire Range (2) 17 AWG [1.51 mm] or (2) 15 AWG [1.45 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
B	.150-.190 or (2) .115 3.18-4.83 or (2) 2.92	.171 4.34	8	.025 0.64	Tin Plated Brass	.342 8.69	.827 21.01	.656 16.66	.312 7.92	60752-2
	.150-.190 or (2) .115 3.18-4.83 or (2) 2.92	.197 5.00	10	.025 0.64	Tin Plated Brass	.342 8.69	.827 21.01	.656 16.66	.312 7.92	61151-1

Wire Range 16–13.5 AWG [1.29–1.78 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
K	—	—	10	.020 0.51	Brass	.340 8.64	1.220 30.99	.660 16.76	.500 12.7	505079-1

Wire Range 14.5 AWG [1.539 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
N	—	—	2	.025 0.64	Tin Plated Brass	.240 6.1	.620 15.75	.500 12.7	.165 4.19	505036-1
	—	—	2	.025 0.64	Brass	.240 6.1	.620 15.75	.500 12.7	.165 4.19	505036-3

Wire Range (2) 13 AWG [1.83 mm]

Type	Insulation Dia. Range	Hole Dia.	Stud Size	Stock Thk.	Material	Dimensions				Part Number
						W	L	E	C	
B	.150-.190 3.81-4.83	.171 4.34	8	.025 0.64	Tin Plated Brass	.342 8.69	.827 21.00	.656 16.66	.312 7.92	63864-1

AMPLIVAR Terminals (Continued)

125 Series Blade

Stock Thickness

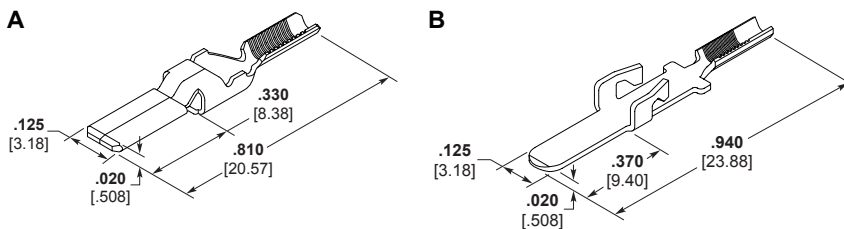
A = .013 [0.33]

B = .020 [0.51]

Mates with power blade receptacle terminals 61603-1, 61604-1, 770642-1 and 1217039-1

Housings

Contact TE engineering for housing options available



Type	Magnet Wire Range				Material	Material Thickness	Part Number
	AWG	mm ²	Solid Dia.	CMA			
A	27-20.5	0.10-0.45	.015-.030 0.35-0.75	200-850	Tin Plated Brass	.013 0.33	63871-1
	24-18	0.2-0.8	.020-.040 0.50-1.00	400-1600	Tin Plated Brass	.013 0.33	63889-1
	18.5-13.5	0.75-2.5	.040-.070 0.50-1.80	1500-5000	Tin Plated Brass	.016 0.41	63870
B	27-20.5	0.10-0.45	.015-.030 0.35-0.75	200-850	Tin Plated Brass	.013 0.33	1217072-1
	24-18	0.2-0.8	.020-.040 0.50-1.00	400-1600	Tin Plated Brass	.020 0.51	1217029-1
	18.5-13.5	0.75-2.5	.040-.070 0.50-1.80	1500-5000	Tin Plated Brass	.020 0.51	1217073-1

187 Series FASTON Tabs¹

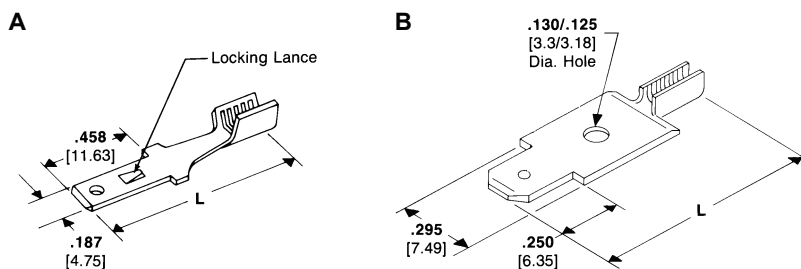
Board Thickness

A = .062-.072 [1.57-1.83]

Stock Thickness

A = .020 [0.51]

B = .032 [0.81]



Type	Wire Range		Material	Dim. L	Part Number
	AWG	mm ²			
B	27-23	0.1-0.2	Tin Plated Brass	.935 23.75	63484-1 ²
	24-21	0.2-0.4	Tin Plated Brass	.935 23.75	61440-3†
A	22-16	0.3-1.4	Tin Plated Brass	1.015 25.78	62447-1
	15-13	1.6-2.6	Tin Plated Brass	.935 23.75	61442-3†
	15-12	1.6-3.0	Tin Plated Brass	1.015 25.78	62445-1

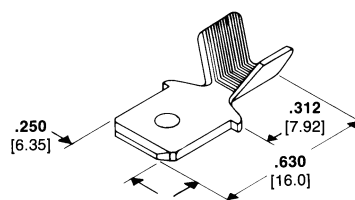
² Varnish resist coating.

[†] These part numbers are available upon special request, contact TE engineering for details.

250 Series FASTON Tabs¹

Stock Thickness

.032 [0.81]



Wire Range		Material	Part Number	Quick-Change Applicator ³
AWG	mm ²			
14-12	2.0-3.0	Tin Plated Brass	62922-12	466510-1

² Varnish resist coating.

³ Quick-change applicator for AMP-O-ELECTRIC machine 565435-5. For AMPOMATOR machine and other machines not listed, contact TE.

¹Mates with FASTON receptacles. See Catalog 82004.

AMPLIVAR Terminals (Continued)

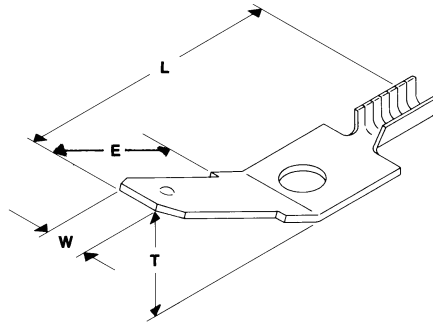
250 Series FASTON Tabs¹

(Continued)

Stock Thickness

.032 [0.81]

Mates with FASTON receptacles.
See Catalog 82004.



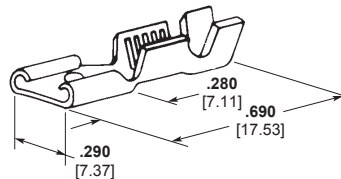
Wire Range		Material	Dimensions				Part Number
AWG	mm ²		W	L	E	T	
28-23.5	0.08-0.2	Tin Plated Brass	.250 6.35	.580 14.73	.342 8.69	45°	63136-1
25-19.5	0.16-0.6	Tin Plated Brass	.250 6.35	.650 16.51	.450 11.43	30°	63140-1
23-19	0.2-0.6	Tin Plated Brass	.250 6.35	.225 5.72	.583 14.81	15°	63165-1

250 Series FASTON Receptacles¹

Stock Thickness

.016 [0.41]

Mates with FASTON tabs.
See catalog 82004.



Magnet Wire Range		Insulation Diameter	Mating Tab Thk.	Material	Material Thickness	Part Number	Applicator No.
CMA	mm ² Dia.						
24-19	0.51-0.98	.050-.080 1.30-2.00	.020 0.51	Brass Tin Plated Brass	.016 0.41	63623-1 ¹ 63623-2 ¹	567451-2 ²
23-19 or (2) 24 or (2) 26	0.60-0.98 or (2) 0.57 or (2) 0.45	.050-.100 1.30-2.55	.025 0.64	Brass	.016 0.41	62069-1	567343-2 ²
20-16 or (2) 23 or (2) 20	0.85-1.37 or (2) 0.63 or (2) 0.88	.100-.140 or (2) .060 Max. 2.55-3.55	.032 [0.81]	Brass Tin Plated Brass	.016 0.41	60384-1 60384-2	466010-1 ²
20-16	0.85-1.37	.100-.140 2.55-3.55	.020 0.51	Brass	.016 0.41	62080-1	466010-1 ²
18-14 or (2) 17	1.02-1.71	.120-.170 or (2) .060 Max. 3.05-4.30	.032 [0.81]	Tin Plated Brass	.016 0.41	60385-2	466816-1 ²
18-14 or (2) 19	1.02-1.71	.120-.170 3.05-4.30	.020 0.51	Brass	.016 0.41	63622-1 ¹	466816-1 ²
18-14 or (2) 19	1.02-1.71	.120-.170 3.05-4.30	.020 0.51	Brass	.016 0.41	1217835-1 ¹	466816-1 ²

¹ Low insertion force

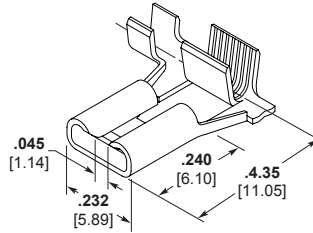
² Quick-change applicator for AMP-O-LECTRIC machine 565435-5.

AMPLIVAR Terminals (Continued)

187 Series FASTON Flag Receptacles

Stock Thickness

.016 [0.41]



Magnet Wire Range CMA	mm ² Dia.	Insulation Diameter	Mating Tab Thk.	Material	Material Thickness	Part Number	Applicator No.
500-960	0.56-0.79	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	63942-1	566411-11
24-20 AWG	0.51-0.81	.020-.040 0.51-1.02	.032 0.81	Tin Plated Brass	.016 0.41	1217624-1	566411-11
1500-2350	0.99-1.22	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	63941-1	566410-11
2000-4050	1.14-1.63	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	63940-1	680353-3 ²
2000-4050	1.14-1.63	.020-.040 0.51-1.02	.032 0.81	Tin Plated Brass	.016 0.41	1217417-1	680353-3 ²

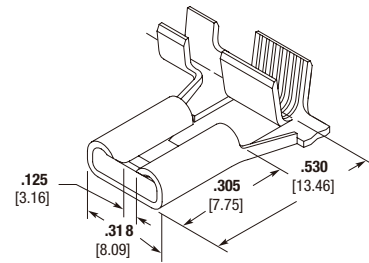
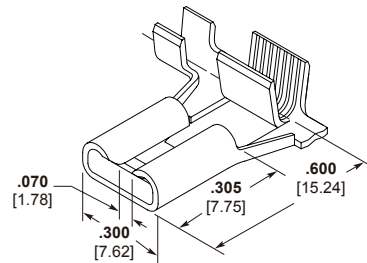
¹ Standard applicator for AMP-O-ELECTRIC Model G splice terminator No. 356462-2.

² Quick-change applicator for AMP-O-ELECTRIC Model G splice terminator No. 356462-1.

250 Series FASTON Flag Receptacles

Stock Thickness

.018 [0.45]



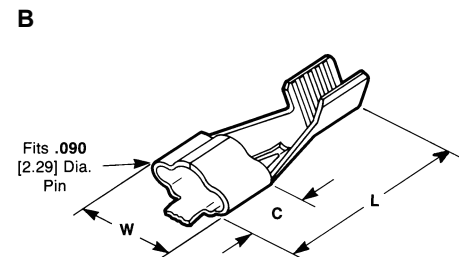
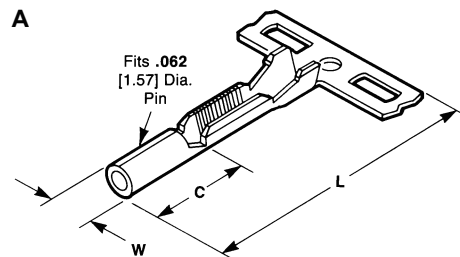
Magnet wire range CMA	mm ² Dia.	Insulation Diameter	Mating Tab Thk.	Material Thickness	Part Number	Applicator No.
500-1900	—	.100-.120 2.54-3.05	6.35 0.81	0.0157 0.4	1742881-1	1855633
1000-2700	—	.100-.120 2.54-3.05	6.35 0.81	0.0157 0.4	1742882-1	1855634
1500-4220	—	.075-.125 1.90-3.18	6.35 0.81	0.0157 0.4	1742977-1	1855680
4000-8500	—	.110-.150 2.79-3.81	6.35 0.81	0.0157 0.4	1742979-1	1855681

¹ Quick-change applicator for AMP-O-ELECTRIC Model G splice terminator No. 356462-1.

Pin Receptacles

Stock Thickness

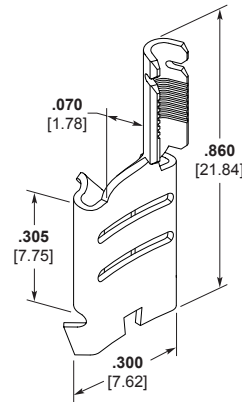
.016 [0.41]



Type	Wire Range AWG	mm ²	Insulation Dia. Range	Material	Dimensions W Max.	L	C	Part Number
A	29-22	0.07-0.3	.040-.060 1.02-1.52	Tin Plated Brass	.084 2.13	.590 14.99	.195 4.95	63506-1
B	21-16	0.4-1.4	—	Tin Plated Phos. Bronze	.235 5.97	.660 16.76	.250 6.35	60177-2

AMPLIVAR Terminals (Continued)

250 Series Stator Receptacles — 7 Serrations



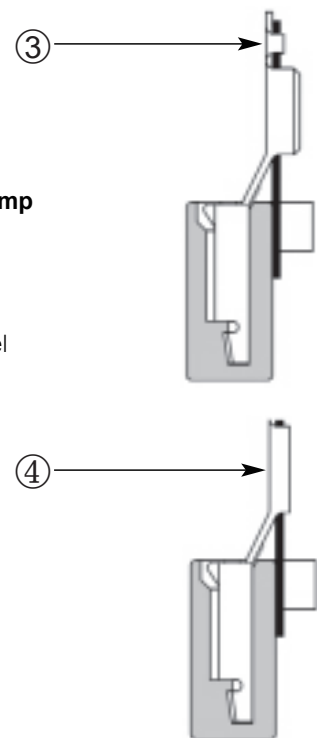
AWG	Magnet Wire Range		CMA	Mating Tab Thickness	Stock Thickness	Crimp Width	Material	Part Number
	mm ²	Solid Dia.						
27-22	0.10-0.3	.014-.026 0.35-0.66	200-700	.032 0.81	.018 0.44	.070 1.77	Tin Plated Brass	63480-1
21-15	0.4-1.6	.028-.060 0.71-1.52	800-3600	.032 0.81	.018 0.44	.110 2.79	Tin Plated Brass	62381-1
22-15.5	0.3-1.5	.053-.086 1.35-2.18	2800-7400	.032 0.81	.018 0.44	.155 3.94	Tin Plated Brass	63964-1

Stator Terminal — Receptacle .250 x .032 [6.35 x 0.81]

- ① **Stator Terminal** with Receptacle .250 x .032 [6.35 x 0.81]
- ② **Plastic Cavity**
Production only according to TE Specifications (contact TE engineering for details).
For design and material selection TE engineering **has to be** contacted before decision. The terminal is separated from the strip and placed automatically into the cavity.



- ③ **Wire Clamping Barrel**
The magnet wire is positioned via posts into the AMPLIVAR crimp barrel and fixed inside clamping barrel.
- ④ **AMPLIVAR Terminal Crimp**
The application equipment crimps the AMPLIVAR product connection and cuts the extending clamping barrel in one operation.



Additional versions upon request.
Application tooling for production line integrating available upon request.