

**Splices**

**Product Facts**

- Terminates stranded wire and/or solid wire combinations together or to leads on components or devices
- End feed splices available for pigtail connections.
- Side feed splices available for parallel connections.
- Available in brass, copper-nickel, phosphor bronze and steel material
- Precision formed, strip-fed splices terminated in AMP automatic machines for high production rates per hour



Tyco Electronics offers a full selection of AMP open barrel splices that are specifically designed to terminate combinations of stranded wire and/or solid wire to themselves or to resistors, light emitting devices (LED), glass reed switch assemblies, etc.

Open barrel splices are available with or without serrations. Pre-stripped stranded or solid wire leads are forced into the serrations during the crimping process. The resulting termination produces a high tensile strength connection that is resistant to corrosion. Depending on your specific application, open barrel splices are available for terminations in the 400 to 30,000 CMA range in brass, copper-nickel, phosphor bronze and steel material.

Others are available with insulation support barrels to terminate round or square posts, resistance wire, and solid pin or calrod leads. The insulation support barrel prevents harmful flexing of the wire at the termination point where the wire is rigidly crimped in the wire barrel and deters fraying of the insulation. Depending on your specific application, open barrel insulation support splices are available for terminations in the 150 to 12,000 CMA range in brass and steel material.

Insulation piercing splices are also available to eliminate the need to pre-strip the insulated wire. The barrel contains two perpendicular lances that are driven through the wire insulation to make contact with the conductor.

Depending on your specific application, open barrel insulation piercing splices are available for terminations in the 16–22 AWG wire range in brass material.

Identification splices are available for wire marking. Up to three digits can be stamped on the bands during the crimping process. Depending on your specific application, open barrel identification splices are available for terminations from .150 to .300 insulation diameters in brass and aluminum material.

Open barrel splices are manufactured in strip form and supplied on reels for semi-automated and fully automated terminations on crimping machines for high output per hour production rates.

**Technical Documents**

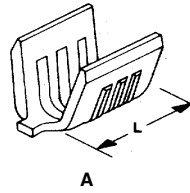
Application Specifications describe requirements for using the product in its intended application and/or crimping information. They are intended for the Packaging and Design Engineer and the Machine Setup Person.

114-2088 — Pigtail and Thru Splices

Splices

**Splices** (Continued)

**Side Feed Splices —  
Non-Insulation Support**

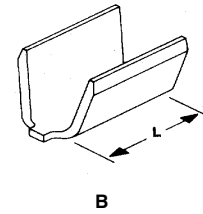
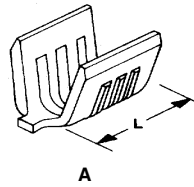


Type	Wire Range		Stock Thickness	Crimp Width	Dim. L	Material	Part Number
	CMA	mm <sup>2</sup>					
A	400-1300	0.20-0.66	.016 0.41	.070 1.78	.100 2.54	Brass	62759-1
						Tin Plated Brass	62759-2
						Steel	62759-5
	500-2200	0.25-1.11	.030 0.76	.110 2.79	.100 2.54	Brass	485016-1
						Brass	61769-1
	1200-2600	0.61-1.32	.020 0.51	.090 2.29	.120 3.05	Nickel Plated Steel	61769-2
						Brass	60372-1
						Brass	63130-2
	1500-5000	0.76-2.53	.020 0.51	.110 2.79	.155 3.94	Tin Plated Brass	63130-3
						Tin Plated Phos. Bz.	63130-4
						Brass	485043-1
	4000-9000	2.03-4.56	.020 0.51	.140 3.56	.250 6.35	Tin Plated Brass	485043-2
						Nickel Plated Steel	485043-4
						Tin Plated Steel	61299-1
	7000-12500	3.55-6.33	.031 0.79	.180 4.57	.265 6.73	Tin Plated Brass	61299-2
						Brass	61299-3
Brass						1217967-1	
8500-14000	4.31-7.10	.025 0.64	.180 4.57	.265 6.73	Tin Plated Brass	1217967-2	
					Brass	62754-1	
14000-30000	7.10-15.20	.030 0.76	.280 7.11	.310 7.87	Brass	62754-1	
					Tin Plated Brass	62754-2	

Splices

**Splices** (Continued)

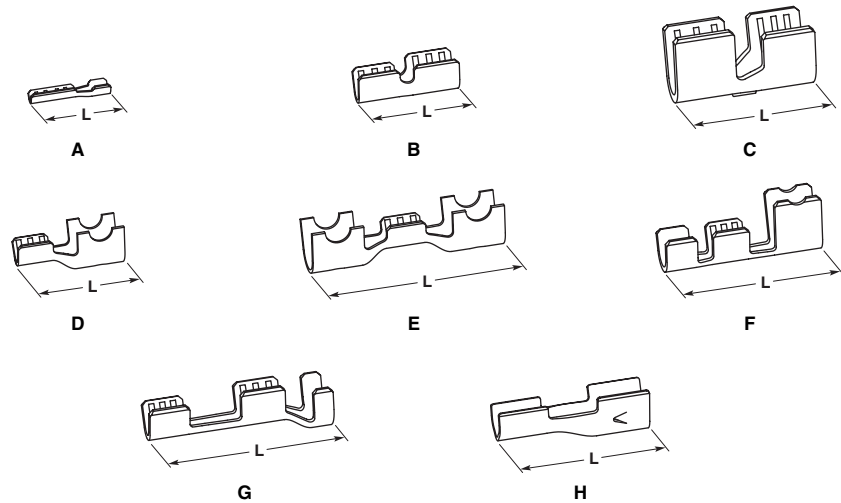
**End Feed Splices —  
Non-Insulation Support**



Type	Wire Range		Stock Thickness	Crimp Width	Dim. L	Material	Part Number	
	CMA	mm <sup>2</sup>						
A	400-1100	0.20-0.56	.010 0.25	.055 1.40	.100 2.54	Brass	63834-1	
	1000-3200	0.51-1.62	.020 0.51	.110 2.79	.150 3.81	Brass	41974	
						Tin Plated Brass	41975	
	1500-4600	0.76-2.33	.020 0.51	.110 2.79	.225 5.72	Nickel Plated Steel	62318-1	
	2500-4700	1.27-2.38	.020 0.51	.120 3.05	.150 3.81	Brass	61492-1	
						Tin/Cu Plated Brass	61492-2	
						Copper-Nickel	61492-3	
						Tin Plated Brass	40868	
	3300-9000	1.67-4.56	.020 0.51	.140 3.56	.150 3.81	Brass	40509	
						Tin Plated Brass	40552	
						Nickel Plated Steel	40952	
	B	800-2600	0.41-1.32	.016 0.41	.090 2.29	.065 1.65	Blackened St. Steel	60470-1
							Brass	41459
		1400-3600	0.71-1.82	.016 0.41	.090 2.29	.065 1.65	Copper-Nickel	41459-1
							Tin Plated Brass	41459-2
1400-2800		0.71-1.42	.016 0.41	.090 2.29	.100 2.54	Tin Plated Brass	40862	
2200-4200		1.11-2.13	.012 0.31	.090 2.29	.250 6.35	Tin Plated Steel	61008-1	
2200-2900		1.11-1.47	.012 0.31	.090 2.29	.065 1.65	Nickel Plated Steel	63432-1	
2200-4500		1.11-2.28	.012 0.31	.090 2.29	.065 1.65	Tin Plated Steel	60933-2	
2500-4700		1.27-2.38	.020 0.51	.120 3.05	.150 3.81	Nickel Plated Steel	41215	
						Brass	41397	
3200-3900		1.62-1.98	.012 0.31	.100 2.54	.150 3.81	Tin Plated Steel	60932-2	
						Brass	60932-4	
3200-8000		1.62-4.05	.020 0.51	.140 3.56	.225 5.72	Nickel Plated Steel	42329-1	
4000-10000		2.02-5.07	.025 0.64	.155 3.94	.250 6.35	Brass	155352-1	
6000-8000		3.04-4.05	.020 0.51	.155 3.94	.125 3.17	Stainless Steel	41627-1	
7000-13000	3.55-6.59	.025 0.64	.180 4.57	.225 5.72	Tin Plated Steel	485020-1		
					Brass	155353-1		
7400-10000	3.75-5.07	.025 0.64	.180 4.57	.250 6.35	Tin Plated Brass	155353-2		
					Brass	41996		
12000-18000	6.08-9.12	.025 0.64	.180 4.57	.250 6.35	Brass	62357-1		
					Nickel Plated Steel	60997-1		
					Nickel Plated Steel	60997-3		
					Stainless Steel	60997-5		

**Splices** (Continued)

**Insulation Support Splices**



Type	Wire Range**		Insul. Dia.	Stock Thickness	Dim. L	Material	Part Number
	CMA	mm <sup>2</sup>					
A	150-480	0.76-2.43	.035-.050 0.89-1.27	.010 0.25	.305 7.75	Brass Tin Plated Brass	62382-1 62382-2
	250-500	0.13-0.25	—	.010 0.25	.190 4.83	Brass	1375622-11
B	975-2700	0.49-1.37	.080-.115 2.03-2.92	.012 0.31	.375 9.52	Nickel Plated Steel	61021-1
	1200-2200	0.61-1.11	.070-.100 1.78-2.54	.020 0.51	.230 5.84	Nickel Plated Steel	62503-2
	3200-9000	1.62-4.56	.120-.160 3.05-4.06	.020 0.51	.370 9.40	Nickel Plated Steel	42627-4
C	6000-12000	3.04-6.08	.140-.185 3.55-4.70	.031 0.79	.545 13.85	Tin Plated Steel	61300-1
D	1600-4100	0.81-2.08	.105-.145 2.67-3.68	.012 0.31	.450 11.43	Brass	60806-1
E	1600-4100	0.81-2.08	.105-.145 2.67-3.68	.012 0.31	.745 18.92	Brass	62516-2
F	975-3100	0.49-1.57	.080-.115 2.03-2.92	.020 0.51	.605 15.37	Tin Plated Steel	505033-12
G	a ~ 1000-3100	a ~ 0.51-1.57	.135-.170 3.43-4.32	.020 0.51	.705 17.90	Brass	62419-2
	b ~ 1500-4500	b ~ 0.76-2.28				Nickel Plated Steel	62419-3
H	1600-3000	0.81-1.52	.105-.145 2.67-3.68	.014 0.36	.580 14.70	Tin Plated Brass	1438246-2
	4100-6900	2.08-3.50				Brass	1438246-4
						Brass	1438246-5

\*\* Wire sizes indicated do not apply to resistance (heater) wire applications.  
1 Crimps to .015 [0.38] round or square post.  
2 Crimps to .092 [2.33] dia. solid pin or calrod.

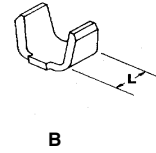
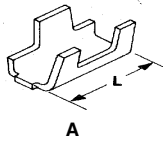
**Insulation Piercing Crimp  
(AWG Wire, 7 Strands Min.)**



Type	Wire Range		Insul. Dia.	Stock Thickness	Dim. L	Material	Part Number
	CMA	mm <sup>2</sup>					
A	20-16	0.5-1.4	.070-.090 1.78-2.29	.020 0.51	.210 5.33	Tin Plated Brass	40771
B	22	0.3-0.4	.050-.065 1.27-1.65	.012 0.31	.210 5.33	Brass	485064-1
						Gold Plated Brass	485064-2
						Nickel Plated Brass	485064-4

**Splices** (Continued)

**Identification Bands \*\***



Type	Wire Range		Insul. Dia.	Stock Thickness	Dim. L	Material	Part Number
	AWG	mm <sup>2</sup>					
A	—	—	<b>.190-.220</b>	<b>.020</b>	<b>.250</b>	Aluminum	41276
			4.82-5.59			0.51	6.35
	—	—	<b>.210-.235</b>	<b>.020</b>	<b>.300</b>	Aluminum	1438254-1
			5.33-5.97			0.51	7.62
B	—	—	<b>.240-.260</b>	<b>.030</b>	<b>.180</b>	Aluminum	1438254-2
			6.09-6.60			0.76	4.57

\*\* One to three digits can be stamped on bands in crimping operation.