

PIDG FASTON Terminals and Splices

Product Facts

- Pre-insulated terminal designed for uniformed reliability in most difficult circuit environment
- Consists of an unplated or tin-plated brass body or a tin-plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel
- Design of the tool dies and construction of the terminal permits uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area

The AMP Mated Tool/Terminal Concept

- AMP compression crimping produces crimps for a given size wire and terminal that are alike in appearance and performance
- Terminal and the crimping tool are designed as uniform matched devices
- Dies are precision-engineered from the finest hard-metal alloys
- Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of AMP automated crimping machines

The Crimp

- When done properly, crimping pressure can neither overstress nor under stress the terminal barrel—machined dies fully bottom to the precise crimp height
- Resulting termination is free of contamination
- Resistant to shock and critical environments
- Tensile strength approaches that of the wire itself

Nylon Insulation. Nylon sleeve has high dielectric strength.

Color Coding. Terminal insulation is color-coded by wire range to prevent errors during installation.

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.

Funnel Ramp Entry. Prevents a turned back strand and rapid wire insertion during high speed production.

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

Basic Terminal Material. The basic terminal is constructed of fine grade high conductivity brass per ASTM B-36 or phosphor bronze per ASTM B-139. The brass terminal is either unplated or tin-plated per ASTM B-545. The phosphor bronze terminal is tin-plated per ASTM B-545. Tyco Electronics' special plating process creates durable corrosion resistance to salt spray and most chemical fumes.

Temperature Rating: 105°C Max.

AMP PIDG FASTON Terminals (Use TETRA-CRIMP Tooling)

AMP Wire Range	Component Recognized File E 66717	UL & CSA — Nylon except where noted	LR 7189 Certified
22-18	22-18 Stranded	300 V Max., 105°C. Max. ¹	
16-14	16-14 Stranded		
12-10	12-10 Stranded		

AMP PIDG FASTON Line Splice Connectors "250" Series

Component Recognized File E 66717	105°C Max. (Vinyl)	LR 7189 Certified	105°C Max. (Vinyl)
AMP Part No. 1-321235-0 1-321235-1	600 V Max.	AMP Part No. 1-321235-0 1-321235-1	300 V Max.
321235 321688	300 V Max.	321235 321688	300 V Max.

PIDG FASTON Terminals and Splices

PIDG FASTON Terminals and Splices (Continued)

Receptacles

Receptacle Style:

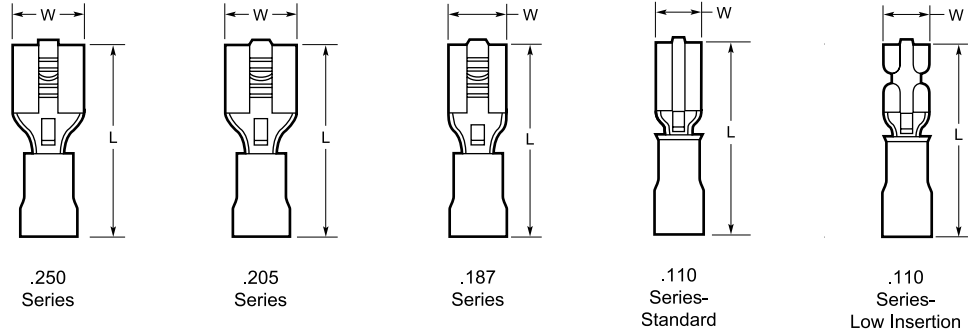
- A** - No dimple with wire stop
- B** - Dimple with wire stop
- C** - No dimple, no wire stop

Material

- Insulation** -Nylon, UL 94V-2
- Receptacle Body** -Brass per ASTM B-36 or Phosphor Bronze per ASTM B-139
- Plating** -Tin per ASTM B-545 except where noted.
- Metallic Sleeve** -Copper per ASTM B-152
- Plating** -Tin per ASTM B-545

Related Product Data

- Insulation Color Code** -pg. 4
- Packaging Quantities** -pg. 4
- Performance Specifications** -pgs. 4 & 5
- Application Tooling** -pg. 67



Series	Wire Size Circular Mils [mm ²]	Style	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers			
			W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form	
.250	22-18 509-1,900 [0.26-0.96]	B	.300	.900	Red	.140	Brass	.018	.032	640903-1*	640903-2	640902-1	
			7.62	22.86	Red	3.56	Brass	0.46	0.81	55675-1 ²	55675-2 ²	—	
	16-14 2,050-5,180 [1.04-2.62]	B	.300	.900	Blue	.170	Brass	.018	.032	640905-1*	640905-2	640904-1	
			7.62	22.86	Blue	4.32	Brass	0.46	0.81	—	—	—	
	14-12 3,831-6,470 ¹ [1.94-3.28]	B	.300	1.012	Green	.250	Brass	.018	.032	42844-1**	42844-3*	60544-3*	
			7.62	25.70	Green	6.35	Phos. Brz.	0.46	0.81	42844-2**	—	—	
		12-10 5,180-13,100 [2.62-6.64]	B	.300	1.012	Yellow	.250	Brass	.018	.032	640907-1*	640907-2	640906-1
				7.62	25.70	Yellow	6.35	Phos. Brz.	0.46	0.81	61198-2	61198-4	—
.250 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	.300	.900	Red	.145	Brass	.016	.032	184262-1	184262-2	184261-1	
			7.62	22.86	Red	3.68	Brass	.406	.813	—	—	—	
.250 Low Insertion	16-14 2,050-5,180 [1.04-2.62]	B	.300	.900	Blue	.173	Brass	.016	.032	184265-1	184265-2	184264-1	
			7.62	22.86	Blue	4.39	Brass	.406	.813	—	—	—	
.205	22-18 509-1,900 [0.26-0.96]	B	.250	.800	Red	.135	Brass	.016	.020	696018-1	696018-2	—	
			6.35	20.32	Red	3.43	Brass	0.41	0.51	—	—	—	
			.250	.800	Red/Black	.140	Brass	.016	.020	640909-1*	640909-2	640908-1	
	16-14 2,050-5,180 [1.04-2.62]	B	.250	.800	Red	.140	Brass	.016	.032	640174-1	—	—	
			6.35	20.32	Red	3.56	Brass	0.41	0.81	640911-1*	640911-2	640910-1	
			.250	.800	Blue	.170	Brass	.016	.020	640913-1*	640913-2	—	
.205	16-14 2,050-5,180 [1.04-2.62]	B	.250	.800	Blue	.170	Brass	.016	.032	640915-1*	640915-2	—	
			6.35	20.32	Blue	4.32	Brass	0.41	0.81	—	—	—	
.187	26-24 238-475 [0.12-0.24]	B	.230	.700	Yellow	.082	Brass	.016	.020	641321-1**	641321-2*	641320-1*	
			5.84	17.78	Yellow	2.08	Brass	0.41	0.51	—	—	—	
	22-18 509-1,900 [0.26-0.96]	B	.230	.800	Red	.140	Brass	.016	.020	640917-1*	640917-2	640916-1	
			5.84	20.32	Red	3.56	Brass	0.41	0.51	—	—	—	
.187	22-18 509-1,900 [0.26-0.96]	B	.230	.800	Red	.140	Brass	.016	.040	—	640578-2*	—	
			5.84	20.32	Red	3.56	Brass	0.41	1.02	—	—	—	

¹Not UL or CSA approved or listed.

*Available in small packaging quantities.

¹Wire range is limited as noted.

²Unplated receptacle body.

PIDG FASTON Terminals and Splices (Continued)

Receptacles

(Continued)

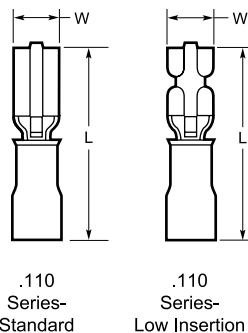
Series	Wire Size Circular Mils [mm ²]	Style	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers		
			W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form
.187	16-14 2,050-5,180 [1.04-2.62]	B	.230 5.84	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640919-1*	640919-2	640918-1
			.230 5.84	.900 22.86	Blue	.250 6.35	Brass	.016 0.41	.020 0.51	696108-1	696108-2	—
.187 Low Insertion	22-18 509-1,900 [0.26-0.96] 16-14 2,050-5,180 [1.04-2.62]		.230 5.84	.800 22.86	Red	.145 3.68	Brass	.016 .406	.032 .813	184268-1	184268-2	184267-1
			.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 .406	.032 .813	184235-1	184235-2	184234-1
.110 Standard	22-18 509-1,900 [0.26-0.96]	B	.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.016 0.41	61048-1**	61048-2 [†]	—
			.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.020 0.51	61060-1**	61060-2 [†]	61059-2 [†]
			.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.032 0.81	60894-1**	60894-2 [†]	60893-2 [†]
			.148 3.76	.734 18.64	Black	.110 2.79	Brass	.012 0.30	.032 0.81	—	61678-2 [†]	—
.110 Low Insertion	26-24 238-475 [0.12-0.24]	A	.160 4.06	.700 17.78	Yellow	.082 2.08	Brass	.016 0.41	.020 0.51	641324-1 [†]	641324-2 [†]	—
			.160 4.06	.796 20.22	Red	.140 3.56	Brass	.016 0.41	.012 0.30	—	—	350871-1 [†]
	22-18 509-1,900 [0.26-0.96]	A	.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.016 0.41	640921-1	640921-2	—
			.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.020 0.51	640923-1*	640923-2	640922-1
			.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.032 0.81	640925-1*	640925-2	640924-1
			.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.032 0.81	640929-1*	640929-2	—
	16-14 2,050-5,180 [1.04-2.62]	A	.160 4.06	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640931-1*	640931-2	—
		B	.160 4.06	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.016 0.41	640927-1	640927-2	—
C	.160 4.06	.796 20.19	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	641317-1	—	—		

*Not UL or CSA approved or listed.

*Available in small packaging quantities.

Receptacles

(Insulation Restricting)



Material

Insulation -Nylon, UL 94V-2
Receptacle Body -Brass per ASTM B-36
Receptacle Style B-Dimple with wire stop
Plating -Tin per ASTM B-545
Metallic Sleeve -Copper per ASTM B-152
Plating -Tin per ASTM B-545 or Nickel per QQ-N-290

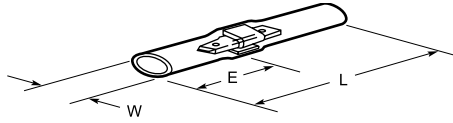
Related Product Data

Insulation Color Code -pg. 4
Packaging Quantities -pg. 4
Performance Specifications -pgs. 4 & 5
Application Tooling -pg. 67

Series	Wire Size Circular Mils [mm ²]	Style	Dimensions		Terminal Insulation Color Solid / Stripe	Wire Insulation Diameter Range	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers		
			W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form
.110 Standard	22 754 [0.38]	B	.148 3.76	.780 19.81	Red/ Green	.040-.080 1.02-2.03	Brass	.012 0.30	.016 0.41	55319-1	55319-3	—

PIDG FASTON Terminals and Splices (Continued)

Line Splice Connector for "250" Series Terminals



Material
Insulation -Vinyl, UL 94V-0
Color -Natural
Splice Body -Brass per ASTM B-36
Plating -Tin per ASTM B-545 except where noted.

Related Product Data
Insulation Color Code -pg. 4
Packaging Quantities -pg. 4
Performance Specifications - pgs. 4 & 5

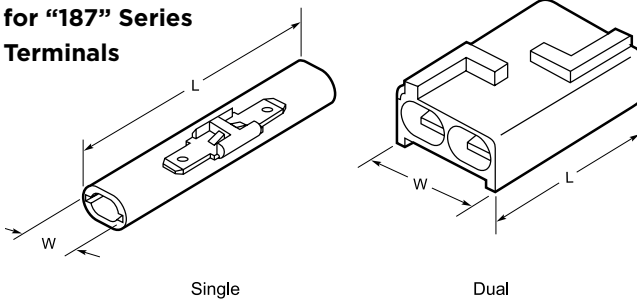
Wire Size	Plating	Dimensions			Part Numbers Loose Piece
		W	L Max.	E Min.	
22-10	Unplated	.391 9.93	2.093 53.16	.860 21.84	321235*
	Tin	.391 9.93	2.093 53.16	.860 21.84	321688
	Unplated	.409 10.39	2.625 66.68	1.151 29.24	1-321235-0
	Tin	.409 10.39	2.625 66.68	1.151 29.24	1-321235-1
	Unplated	.409 10.39	2.451 62.26	.970 ² 24.64	1-321235-3 ¹

*Available in small packaging quantities.

¹Oval expansion at end opposite "w". (.380 x .320 inside diameter.)

²E min. on expansion end only.

Line Splice Connector for "187" Series Terminals



Material
Housing -Nylon, UL 94V-2
Splice Body -Brass per ASTM B-36

Related Product Data
Insulation Color Code -pg. 4
Packaging Quantities -pg. 4
Performance Specifications - pgs. 4 & 5

Type	Housing Color	Dimensions		Temperature Rating	Part Numbers Loose Piece
		W	L		
Single	Natural	.345 8.76	1.750 44.45	—	360035-1 ¹
Dual	Natural	.650 16.51	1.750 44.45	105°C	360025-1 ¹
Dual	Black	.650 16.51	1.750 44.45	150°C	360025-2 ¹

¹UL File E66717
600 V Max

Receptacle (Low Insertion Force)

Series	Wire Size Circular Mils [mm ²]	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers		
		W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form
.250 Low Insertion	22-18 509-1,900 [0.26-0.96]	.300 7.62	.900 22.86	Red	.145 3.68	Brass	.016 .406	.032 .813	184262-1	184262-2	184261-1
.250 Low Insertion	16-14 2,050-5,180 [1.04-2.62]	.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 .406	.032 .813	184265-1	184265-2	184264-1
.187 Low Insertion	22-18 509-1,900 [0.26-0.96]	.230 5.84	.800 22.86	Red	.145 3.68	Brass	.016 .406	.032 .813	184268-1	184268-2	184267-1
.187 Low Insertion	16-14 2,050-5,180 [1.04-2.62]	.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 .406	.032 .813	184235-1	184235-2	184234-1