PIDG FASTON Receptacles and Tabs

Product Facts

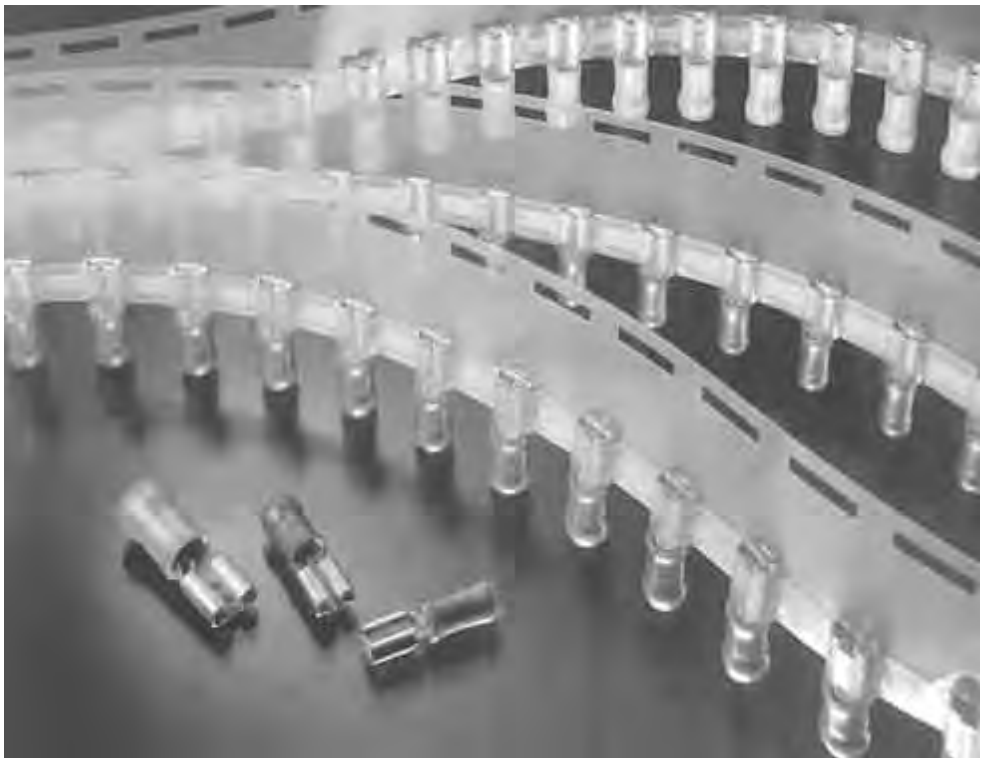
- **Pre-insulated terminal designed for complete and uniform reliability in the most difficult circuit environment**
- **Consists of an unplated or tin plated brass body or a tin plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel**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

The TE Mated Tool/Terminal Concept

- **TE compression crimping produces crimps for a given size wire and terminal that are precisely alike in appearance and performance**
- **Terminal and the crimping tool are designed as precisely 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 TE automated crimping machines**

The Crimp

- **Crimping pressure does not overstress nor understress the terminal barrel — machined dies fully bottom to the precise crimp height**
- **Resulting termination is free of contamination**
- **Resistant to most shock and critical environments**
- **Tensile strength approaches that of the wire itself**



Here is a pre-insulated terminal designed for complete and uniform reliability in most difficult circuit environments. Each PIDG Terminal consists of a tin plated brass body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel. The design of the tool dies and the construction of the terminal promotes uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area.

TE compression crimping produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. This is a calculated result made possible by designing the terminal and the crimping tool as precisely matched devices. The 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 TE automated crimping machines.

Crimping pressure can neither over-stress nor understress the terminal barrel — machined dies fully bottom to the precise crimp height required.

The resulting termination is free of contamination, is resistant to shock and critical environments, and its tensile strength approaches that of the wire itself.

Temperature Rating: 105° C

Wire Range	E66717 Recognized	LR7189 Certified
22-16	22-16 Stranded	300 V Max., 105°C Max.[1]
16-14	16-14 Stranded	
12-10	12-10 Stranded	

[1] UL and CSA — Nylon.

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PIDG FASTON Receptacles and Tabs (Continued)

Receptacles

Receptacle Style

A — No dimple with wire stop

B — Dimple with wire stop

C — No dimple, no wire stop

Material

Insulation — Nylon

Receptacle Body — Brass per ASTM B-36 or phosphor bronze per ASTM B-139

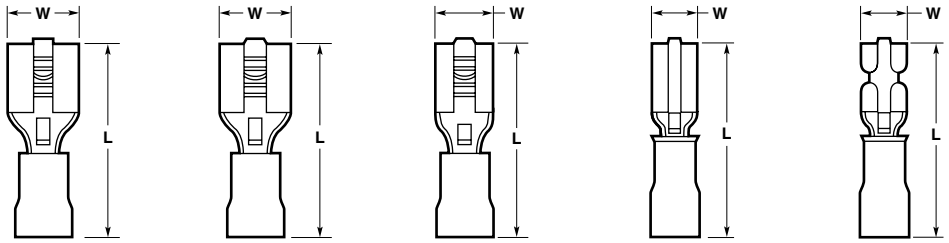
Plating — Tin per MIL-T-10727 except where noted.

Metallic Sleeve — Copper per ASTM B-152

Plating — Tin per MIL-T-10727

Related Product Data

Application Tooling — reference Catalog 82042 for tooling



.250 Series | **.205 Series** | **.187 Series** | **.110 Series- Standard** | **.110 Series- Low Insertion**

Series	Wire Size Circular Mils [mm²]	Style	Dimensions W Nom.	Dimensions L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted	Part Numbers Strip Form
.250	22-18 509-1,900 [0.26-0.96]	B	**.300** 7.62	**.900** 22.86	Red	**.140** 3.56	Brass	**.018** 0.46	**.032** 0.81	640903-1*	640903-2	640902-1
					Red	**.140** 3.56	Brass	**.018** 0.46	**.032** 0.81	55675-1[2]	55675-2[2]	—
	16-14 2,050-5,180 [1.04-2.62]	B	**.300** 7.62	**.900** 22.86	Blue	**.170** 4.32	Brass	**.018** 0.46	**.032** 0.81	640905-1*	640905-2	640904-1
	14-12 3,831-6,470[1] [1.94-3.28]	B	**.300** 7.62	**1.012** 25.70	Green	**.250** 6.35	Brass	**.018** 0.46	**.032** 0.81	42844-1*†	42844-3†	60544-3†
					Green	**.250** 6.35	Phos. Brz.	**.018** 0.46	**.032** 0.81	42844-2*†	—	—
	12-10 5,180-13,100 [2.62-6.64]	B	**.300** 7.62	**1.012** 25.70	Yellow	**.250** 6.35	Brass	**.018** 0.46	**.032** 0.81	640907-1*	640907-2	640906-1
					Yellow	**.250** 6.35	Phos. Brz.	**.018** 0.46	**.032** 0.81	61198-2[3]†	61198-4[4]†	61197-2
.250 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	**.300** 7.62	**.900** 22.86	Red	**.145** 3.68	Brass	**.016** 0.41	**.032** 0.81	184262-1†	184262-2†	184261-1†
	16-14 2,050-5,180 [1.04-2.62]	B	**.300** 7.62	**.900** 22.86	Blue	**.173** 4.39	Brass	**.016** 0.41	**.032** 0.81	184265-1†	184265-2†	184264-1†
.205 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	**.250** 6.35	**.800** 20.32	Red	**.135** 3.43	Brass	**.016** 0.41	**.020** 0.51	696018-1†	696018-2†	—
.205	22-18 509-1,900 [0.26-0.96]	B	**.250** 6.35	**.800** 20.32	Red	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640909-1*	640909-2	640908-1
					Red/Black	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640174-1	—	—
					Red	**.140** 3.56	Brass	**.016** 0.41	**.032** 0.81	640911-1*	640911-2	—
	16-14 2,050-5,180 [1.04-2.62]	B	**.250** 6.35	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.020** 0.51	640913-1*	640913-2	—
					Blue	**.170** 4.32	Brass	**.016** 0.41	**.032** 0.81	640915-1*	640915-2	—
.187	26-24 238-475 [0.12-0.24]	B	**.230** 5.84	**.700** 17.78	Yellow	**.082** 2.08	Brass	**.016** 0.41	**.020** 0.51	641321-1*†	641321-2†	641320-1†
	22-18 509-1,900 [0.26-0.96]	B	**.230** 5.84	**.800** 20.32	Red	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640917-1*	640917-2	640916-1

† Not UL or CSA approved or listed.
* Available in small packaging quantities.
[1] Wire range is limited as noted.
[2] Unplated receptacle body.
[3] Requires tool 90276-2
[4] Requires die 58541-1

Note: All part numbers are RoHS compliant.

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PIDG FASTON Receptacles and Tabs (Continued)

Receptacles (Continued)

Series	Wire Size Circular Mils [mm²]	Style	Dimensions W Nom.	Dimensions L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted	Part Numbers 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	**.032** 0.81	696108-1†	696108-2†	—
	16-14 509-1,900 [0.26-0.96]	B	**.235** 5.84	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.032** 0.81	184235-1†	184235-2†	—
.187 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	**.230** 5.84	**.800** 22.86	Red	**.140** 3.68	Brass	**.016** 0.41	**.020** 0.51	696777-2	—	696776-1
									.032 0.81	184268-1†	184268-2†	184267-1†
.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†
.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†	—
	22-18 509-1,900 [0.26-0.96]	A	**.160** 4.06	**.796** 20.22	Red	**.140** 3.56	Brass	**.016** 0.41	**.012** 0.30	—	—	350871-1†
			.160 4.06	**.800** 20.32	Red	**.140** 3.56	Brass	**.016** 0.41	**.016** 0.41	640921-1	640921-2	—
									.020 0.51	640923-1*	640923-2	640922-1
									.032 0.81	640925-1*	640925-2	640924-1
	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	640929-1*	640929-2	—
									.032 0.81	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	—

†Not UL or CSA approved or listed.
*Available in small packaging quantities.

Tooling for Insulated FASTON Receptacles and Tabs — 26 to 10 AWG Wire Range

Wire Size	Hand Tool	Tools for Tape Mounted Terminations: Tape Dies for 69875 AMP-TAPETRONIC No Applicator Required	Tape Dies for AMP-O-LECTRIC[1] Model "G" Applicator 567200-3	Tape Dies for AMPOMATOR CLS III G, CLS IV Applicator 687658-1	Tools for Strip Form Terminations: AMPOMATOR CLS III G, CLS IV Applicators
26-24	48518-2	69877-2	69877-2	69877-2	—
22-18	59824-1	59826-1	59826-1*	59826-1	466788-3[2]
22-18 (Natural)	90185-1	90248-2	90248-2	90248-2	466554-3
16-14	59824-1	59827-1	59827-1*	59827-1	466789-3[2]
14-12	90246-1	90240-2	90240-2	90240-2	—
12-10	59824-1	59828-1	59828-1*	59828-1	466790-4[2]

*Only UL and CSA approved.
[1]AMP-O-LECTRIC model "K" 565435-5 uses applicator 567200-2.
[2]Die included with applicator.

Note: All part numbers are RoHS compliant.

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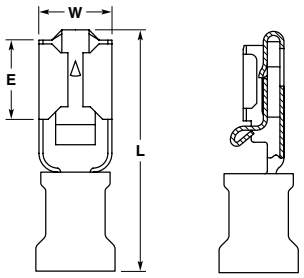
PIDG FASTON Receptacles and Tabs (Continued)

Positive Lock Receptacle

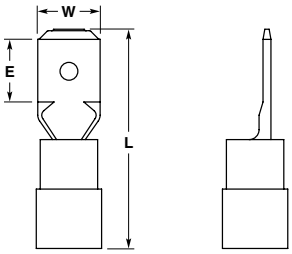
Low Insertion Force with Locking Device



Description	Wire Range	Ins. Dia. Max.	Dimensions			Material and Finish	Part Number
			W	L	E		
For Tab .250 x .032	16-14	**.190** 4.83	**.362** 9.19	**.850** 21.59	**.315** 8.00	Tin Plated Brass	165536-1†

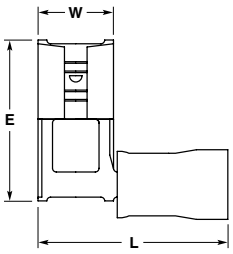
†Not UL or CSA approved or listed.

Tab



Description	Wire Range	Ins. Dia. Max.	Dimensions			Material and Finish	Part Number
			W	L	E		
For Receptacle .250 x .032	22-18	**.157** 3.99	**.250** 6.35	**.866** 22.00	**.300** 7.62	Tin Plated Brass	696362-1
	16-14	**.197** 5.00	**.250** 6.35	**.866** 22.00	**.300** 7.62	Tin Plated Brass	696369-1
	12-10	**.256** 6.50	**.250** 6.35	**.950** 24.13	**.300** 7.62	Tin Plated Brass	696372-1

PIDG FASTON Flag Receptacles



Description	Wire Range	Ins. Dia. Max.	Dimensions			Material and Finish	Part Number
			W	L	E		
For Tab .250 x .032	22-18	**.134** 3.40	**.300** 7.62	**.720** 18.29	**.610** 15.49	Tin Plated Brass	156667-1
	16-14	**.157** 3.99	**.300** 7.62	**.720** 18.29	**.610** 15.49	Tin Plated Brass	156666-1

Note: All part numbers are RoHS compliant.

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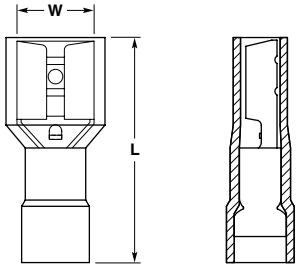
PIDG FASTON Receptacles and Tabs (Continued)

Fully Insulated Receptacles

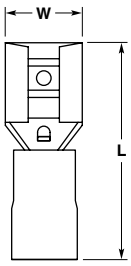
Insulation Sleeve — Nylon



Description	Wire Range	Ins. Dia. Range	Dimensions W	Dimensions L	Material and Finish	Part Number
For Tab .250 x .032	22-18	**.128** 3.25	**.375** 9.53	**.891** 22.63	Tin Plated Brass	696357-1
	16-14	**.165** 4.19	**.375** 9.53	**.881** 22.38	Tin Plated Brass	696366-1
	12-10	**.225** 5.72	**.375** 9.53	**.998** 25.35	Tin Plated Brass	696371-1

Budget Line PIDG FASTON Receptacles

Material
Insulation — PVC, UL 94V-0
Receptacle Body — Brass
Plating — Tin
Metallic Sleeve — Copper
Plating — Tin



Series	Wire Size Circular Mils [mm²]	Dimensions W Nom.	Dimensions L Nom.	Terminal Color	Wire Insulation Diameter Max.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted
.250	22-18	**.300** 7.62	**.819** 20.80	Red	**.150** 3.81	**.032** 0.81	696301-1	696301-2
	16-14	**.300** 7.62	**.819** 20.80	Blue	**.185** 4.70	**.032** 0.81	696302-1	696302-2

Note: All part numbers are RoHS compliant.

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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9