



PIDG TERMINALS & SPLICES

Quick Reference Guide

FEATURES AND BENEFITS

- Made of high conductivity copper; tin-plated for optimal corrosion protection
- Copper sleeve for vibration resistance and improved wire insulation support
- Body has inner serrations for maximum electrical contact and tensile strength
- Insulation sleeves are colour-coded by wire size to the corresponding TE Connectivity (TE) tooling for easy identification and termination
- Readily available at distributors in small packages or bulk quantities
- Most PIDG terminals and splices are UL/CSA listed and Mil-Spec approved
- Operating temperature 105°C; operating voltage 300V

300V

Operating Voltage

105°

Max Operating
Temperature (in C)

MIL

MIL-SPEC Approval

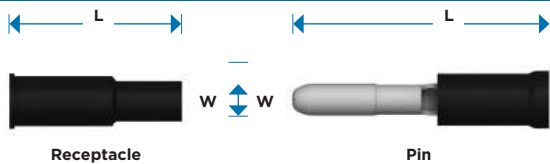
PRODUCT APPLICATIONS

- Instruments/Control
- Lighting
- Power Supplies
- Panel Boxes
- Transportation
- Lifting equipment
- Motors
- Aerospace
- Appliances



WHAT'S INSIDE

TE Connectivity's PIDG terminals are designed for uniform reliability in the harshest circuit environments, especially where high vibration and wire movement are factors. They consist of a nylon or PVC insulated body, plus a metal sleeve that crimps to the wire insulation for added support. The wire barrel design is vibration resistant, and supports the wire to bend in any direction without damaging the wire insulation or conductor. Millions of PIDG terminals and splices are still in the field many years after installation; a testament to the rigorous testing and research that went into their design and manufacturing. Many PIDG terminals meet or exceed the requirements of SAE AS7928, Type II, Class 1 .



SHUR-PLUG Terminals

													Manual Hand Tools			Die Sets for Powered Tools (See Note 1 for Powered Tool Options)		
Wire Size		Style	Standard Part Number	Width (W)		Length (L)		Color	Max. Wire Insulation Dia.		Also available in		Re- marks	Certi- Crimp Hand Tool Most UL Apvd	Mil-Spec Certified Hand Tool	Pro- Crimper (SDE) Hand Tool	SDE Die Set (Premium) Most UL Apvd	SDE Die Set (Commercial)
AWG	mm²			inch	mm	inch	mm		inch	mm	Tape & Reel	Small Pack						
22-16	0,25-1,60	Pin	165590-1	.156	3,96	.799	20,30	●	.138	3,50		✓						
	0,50-1,50	Pin	141462-1	.118	3,00	.945	24,00	●	.134	3,40		✓						
		Recpt	141456-1	.118	3,00	.984	25,00	●	.130	3,30		✓						
	0,50-1,60	Recpt	165399-1	.156	3,96	.902	22,90	●	.114	2,90		✓						
16-14	1,04-2,62	Pin	324225	.156	3,96	.790	20,07	●	.170	4,32	✓	✓		47387-7		58433-3	2063030-1	58423-1
	1,04-2,62	Recpt	165429-1	.156	3,96	.972	24,70	●	.157	4,00		✓						

REMARKS

- 0 Must be crimped with 22-18 or 22-16 PIDG (red) tooling
- 1 Body Springs Spade : Phosphor Bronze per ASTM B-139
- 2 Body : Copper also according DIN 1787 and EN 1676
- 3 Body : Brass according ASTM B 36
- 4 Sleeve : Nickel Plating per SAE AMS QQ-N-290
- 5 Adapter inserts can be ordered separately for use in specific standard PIDG Butt Splices
- 6 Mill Specified
- 7 Body : Brass according MIL-C-50

For all remarks and additional information see Customer Drawing on www.te.com

FREQUENTLY ASKED QUESTIONS TOOLING

Can wires be combined in PIDG terminals & splices?

Yes, they can as long total CMA (Circular Mil Area) and insulation diameter fall within specification.

Are PIDG terminals MIL specified?

Yes, most of them meet or exceed MIL-T-7928, Type II, class 1.

What product should you choose if you need higher temperature?

Use TE STRATO-THERM terminals (catalog 82011).

Why can PIDG terminals just handle 300V and PLASTI-GRIP terminals 600 V?

Because the additional copper sleeve is close to the end of the sleeve.

What is the advantage of this copper sleeve?

It provides circumferential insulation support to the wire and allows the wire to bend in any direction, without fraying the wire's insulation or breaking the conductor.

Why is there no crimp height given for PIDG terminals?

It is the geometry of the TE crimping tools which ensures the perfect crimp on PIDG terminals.

NOTE 1

The die sets listed above can be used with the following powered tools:

- 1.75 Ton Battery Tools 2217480-1 (110V) or 2217480-2 (220V)
- AT-300 Electric Crimping Machine 539630-2 (115V/230V) with SDE Adapter 1673663-2
- 626 Pneumatic Tool System with Pro-Crimper Adapter 679304-1
- AT-SC MK II Pneumatic Safety Crimping Machine 1-528050-0 with SDE Die Holder 2-528051-8

NOTE 2

Most 22-16, 16-14, and 12-10 AWG PIDG terminals and splices can be crimped using TETRA-CRIMP Hand Crimping Tool 59824-1 (UL approved)



**58433-3 - Pro-Crimper
Commercial Hand Tool**

<http://tooling.te.com>

For questions about our connectivity solutions, please go to te.com.