Hooking up the ends . . .



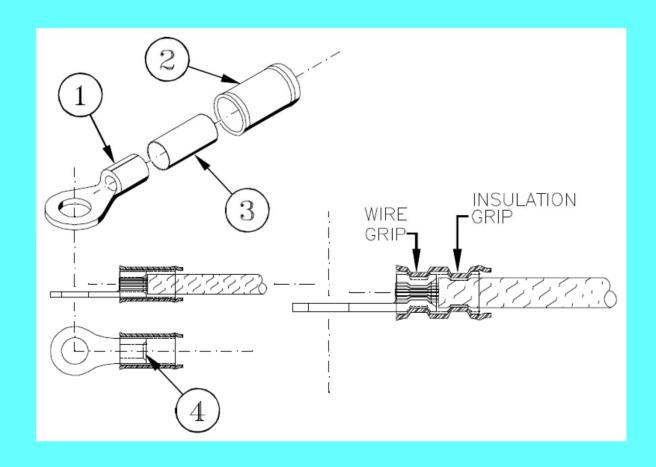
The Pre-Insulated, Diamod-Grip Fast-On Terminals



PIDG Ring terminals



PIDG Splices



The Pre-Insulated, Diamod-Grip (PIDG) terminals are a 3-piece design that's been a benchmark of solderless terminal technology for 70+ years.

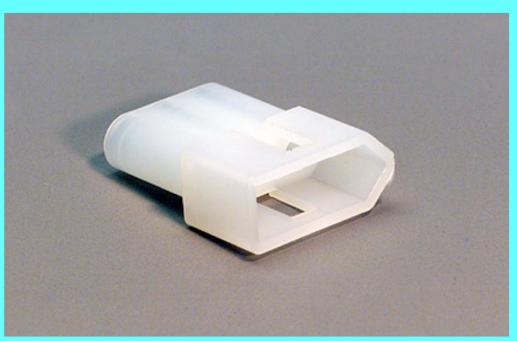
While "PIDG" is an AMP trademark, many other companies offer similar terminals built to military specifications.

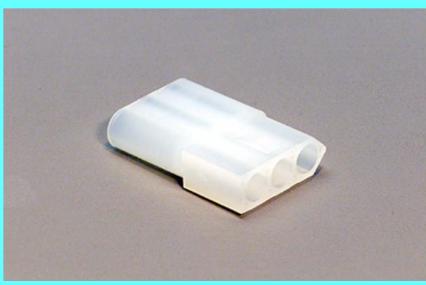


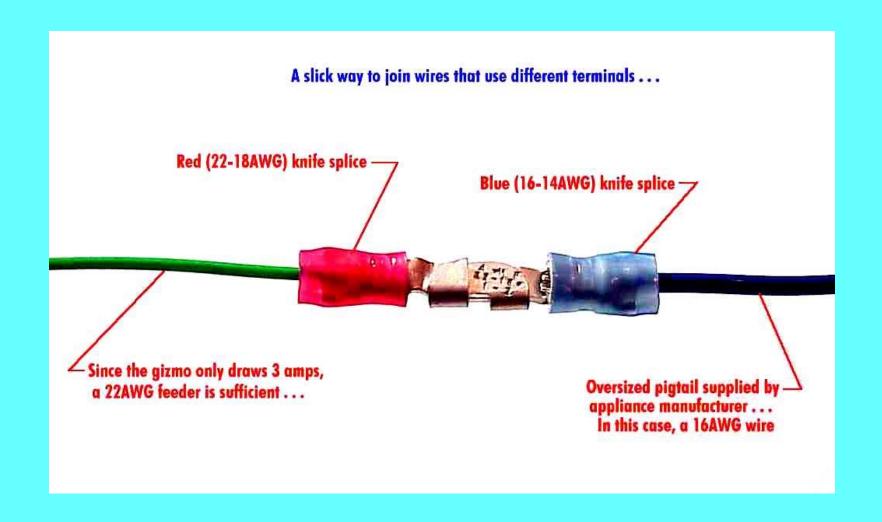




- These pins are typical of Molex and AMP Mate-n-Lock plastic connectors . . .
- Proper installation folds the wire grip into a "B" crimp and the insulation grip into a "bear hug".



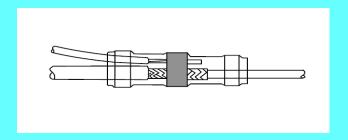


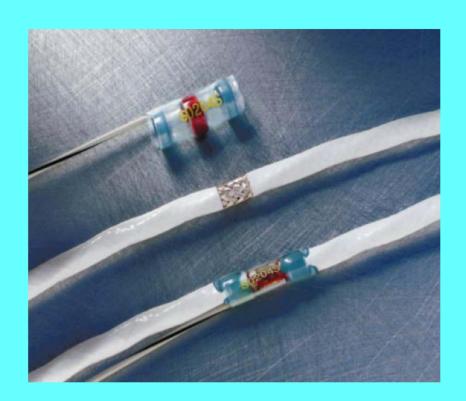














Terminals and Connectors

RAYCHEM SOLDER SLEEVES

Playchem's SolderSteeve heat-shrinkable wire and cable interconnection devices are a labor-saving alternative to conventional wire and cable termination methods such as craft-sensitive, time-consuming hand soldering or crimping.

Features:

- · Controlled soldering with high level of sealing
- · Strain relief
- Insulation
- · Easy one step installation
- Application from 125°C to 260°C
- . NAS, MIL-SPEC, and UL approvals



150C Mil-Spec 83519 Qualified

MOUSER STOCK NO.	Raychem Part No.	Inner Dia. Min.	Shleid Dia. Min.	Price Each					
				1	50	100	250	500	
650-S0101R	S01-01-R	.075*	.035*	2.44	2.22	2.03	1.88	1.74	
650-S0102R	S01-02-R	.105*	.065*	2.40	2.18	2.01	1.85	1.72	
650-S0103R	S01-03-R	.170*	.085*	2.54	2.31	2.12	1.95	1.82	
650-S0104R	S01-04-R	.235*	.130*	3.03	2.75	2.52	2.33	2.17	
650-S0105R	S01-05-R	.275*	.170*	3.51	3.19	2.92	2.70	2.50	



125C (Commercial shield term w/lead)

MOUSER STOCK NO.	Raychem Part No.	Inner Dia. Min.	Shield Dia. Min.	Price Each					
				1	50	100	250	500	
650-CWT3122	CWT-3-W122-5	.099*	.059*	1.39	1.26	1.15	1.05	.96	
650-CWT5122	CWT-5-W122-5	.169*	.079*	1.43	1.31	1.22	1.10	1.02	
650-CWT7122	CWT-7-W122-5	.252*	.130*	1.56	1.42	1.29	1.20	1.10	



Solder Splicing Sleeves (For wire to wire splices)

MOUSER STOCK NO.	Raychem Part No.	Wire Jacket O.D. (mm)		Price Each					
		Min.	Max.	1	50	100	250	500	
650-CWT9001	CWT-9001	0.4	1.7	.59	.54	.50	.46	.40	
650-CWT9002	CWT-9002	1.3	2.7	.64	.59	.55	.50	.45	
650-CWT9003	CWT-9003	1.8	4.5	.67	.62	.58	.53	.46	

STRIP WIRES TO BE SPLICED.

3/8" ONE END, I-1/2"

ON OTHER END.

PEEL TWO STRANDS
OF WIRE FROM LONG
STRIP . . . CUT
REMAINDER TO
3/8"

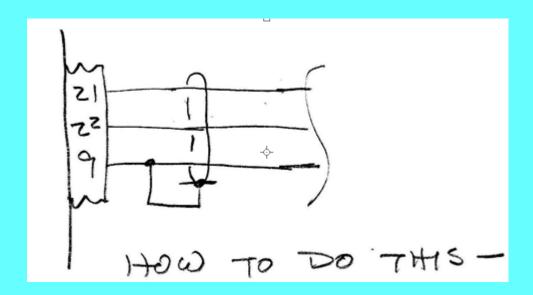
Terminals and Connectors

OVERLAP STRIPPED
WIRES AND FIXTURE BY
WRAPPING FREE STRANDS
AROUND JOINT.

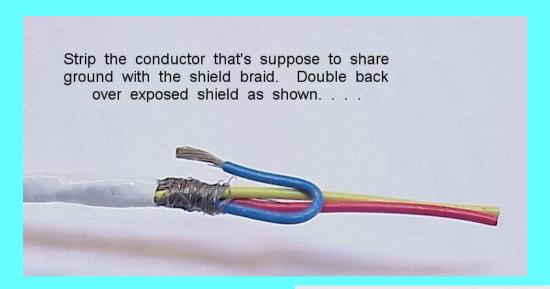
SOLDER OVERLAPPED
WIRES (63/37 ELECTRONIC
GRADE SOLDER)

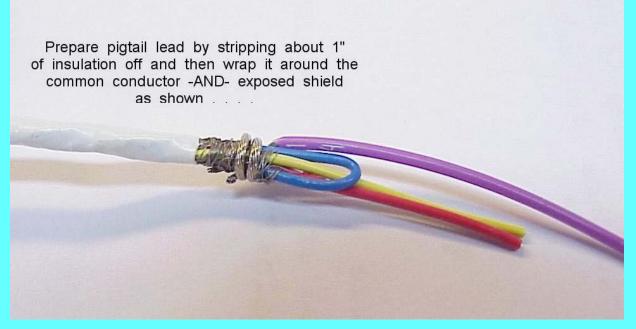
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COVER JOINT WITH TWO
LAYERS OF HEAT SHRINK . . .
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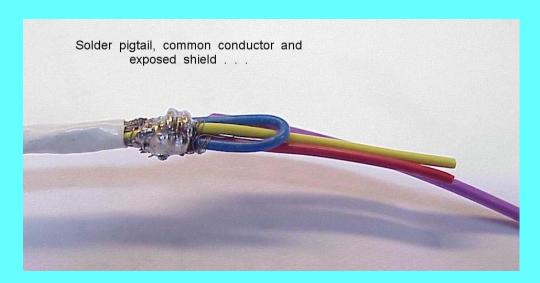


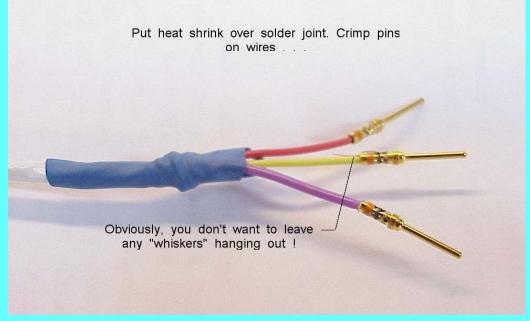










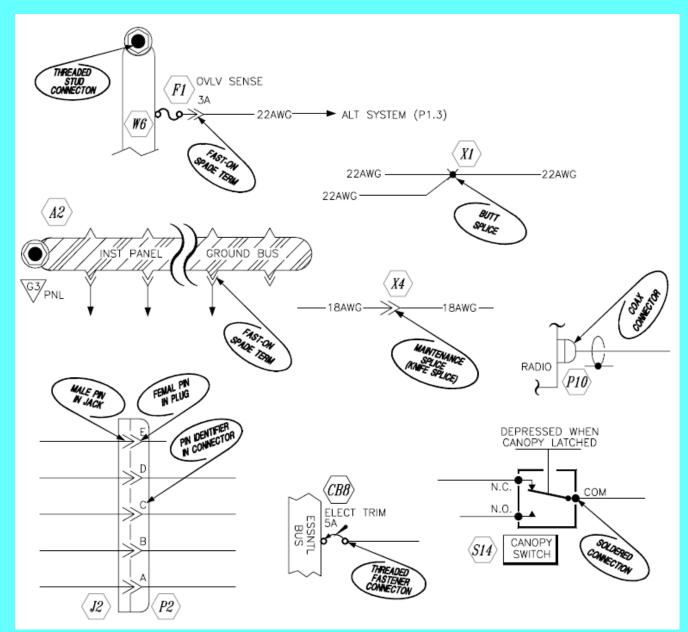






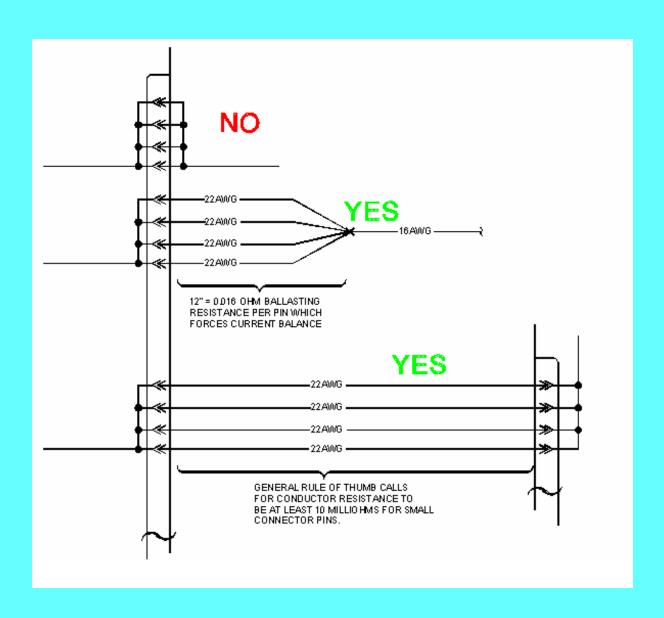






A few examples of how connection details can be incorporated into your wirebook by the use of descriptive symbology . . .

A few examples of how connection details can be incorporated into your wirebook by the use of descriptive symbology . . .



In a nutshell

- There's not much value in skimping on wire quality. Tefzel wire has stood the test of time in commercial aviation with exemplary performance.
- Copper clad aluminum can be considered when you have LONG runs of fat wires (like in a seaplane) and you can live with the stiffness.
- Welding cable is slightly heavier than Tefzel but exceedingly robust, very flexible and inexpensive.
- Irrespective of what wire you use elsewhere, consider welding cable jumpers for battery connections.