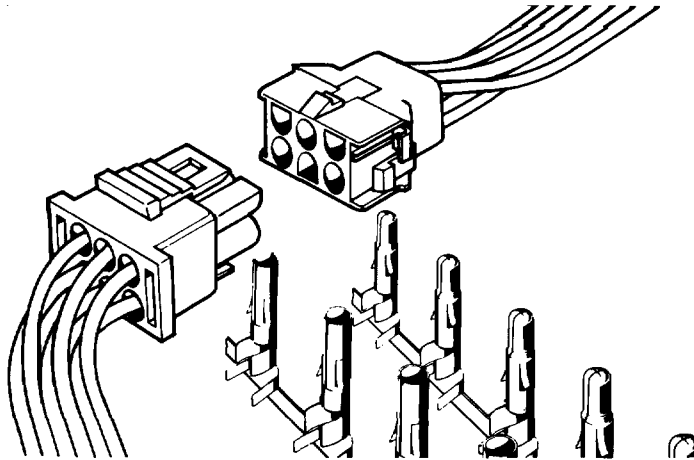
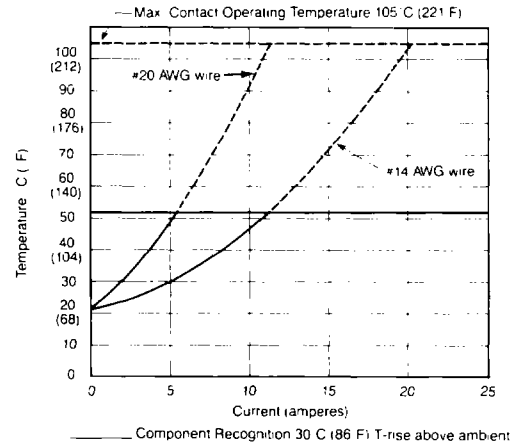
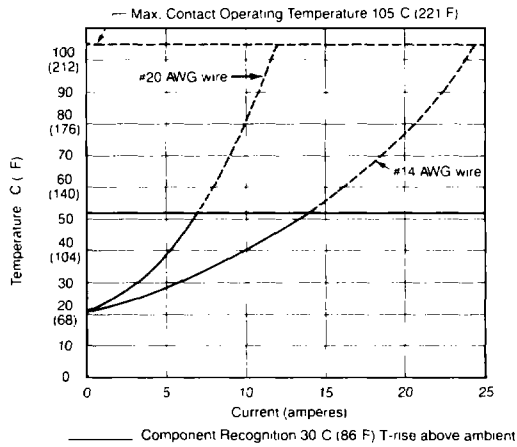


- For applications requiring high current carrying capability and maximum shock and vibration resistance.
- Fully compatible with other universal systems.
- Housing design minimizes the possibility of electrical shock.
- Locking latches assure positive retention in high shock and high vibration environments.
- Positive polarization prevents cap-to-plug mismatch.
- Housings are provided with rear cavity identification.
- Available in 2, 3, 4, 6, 9, 12 and 15 positions.

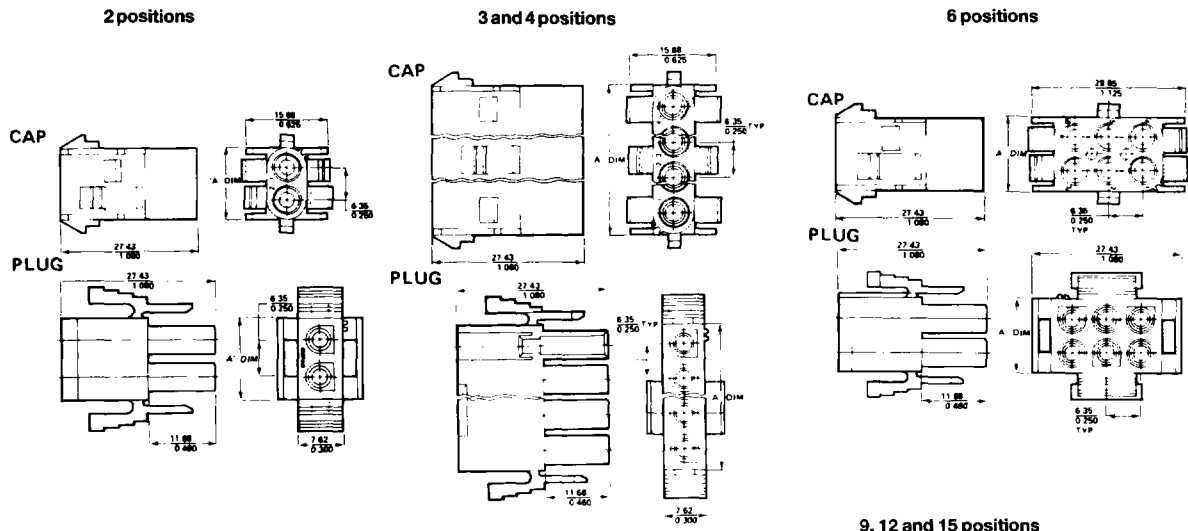


Spacing		6,35 mm (0.250 inch)																					
Polarization		Achieved through housing design																					
Vibration		10-55-10 Hz traversed in 1 min. at 1,52 mm (0.060 inch)																					
Physical shock		18 drops, 50 g's at 10 m. secs (saw tooth) total 18 drops																					
Temperature humidity cycling		10-65° C at 95% (90-95 RH)																					
Housing (cap and plug)	Material	Nylon (UL 94 V-0/15 seconds). Color red Nylon (UL 94 V-2/30 seconds). Color white																					
	Insulation resistance	1 × 10 ³ MΩ min.																					
	Temperature range	-55° C to +105° C																					
	Withstanding voltage	600 V rms (sea level)																					
Pin and socket contacts	Material	Brass or phosphor bronze (see "Ordering data")																					
	Finish	Tin/lead																					
	Current rating	15 A max. (+105° C)																					
	Resistance	AWG																					
		<table border="1"> <thead> <tr> <th></th> <th>24</th> <th>22</th> <th>20</th> <th>18</th> <th>16</th> <th>14</th> </tr> </thead> <tbody> <tr> <td>Test current</td> <td>1,5</td> <td>3,0</td> <td>4,5</td> <td>6,0</td> <td>8,0</td> <td>10,0 A</td> </tr> <tr> <td>Potential drop</td> <td>3</td> <td>5</td> <td>6</td> <td>9</td> <td>11</td> <td>14 mV</td> </tr> </tbody> </table>		24	22	20	18	16	14	Test current	1,5	3,0	4,5	6,0	8,0	10,0 A	Potential drop	3	5	6	9	11	14 mV
	24	22	20	18	16	14																	
Test current	1,5	3,0	4,5	6,0	8,0	10,0 A																	
Potential drop	3	5	6	9	11	14 mV																	
	Mating force (max.)	Split pin : 6,66 N (666 gf) per contact Solid pin: 13,23 N (1,33 kgf) per contact																					
	Unmating force (min.)	Split pin : 22,20 N (2,22 kgf) per contact Solid pin: 31,08 N (3,11 kgf) per contact																					
Packaging		Housings : 500 per box Contacts on reel: AWG 20-14: Insulation diameter 1,52-3,30 mm (0.060-0.130 inch): 4500 per reel Insulation diameter 3,30-5,08 mm (0.130-0.200 inch): 2500 per reel AWG 24-18: 7500 per reel Loose piece contacts: 500 per box																					

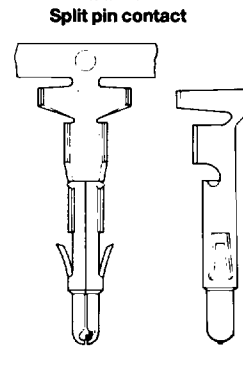
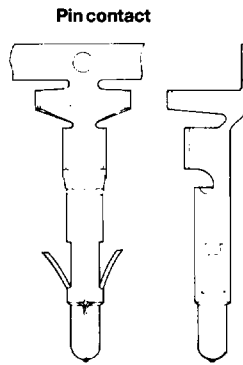
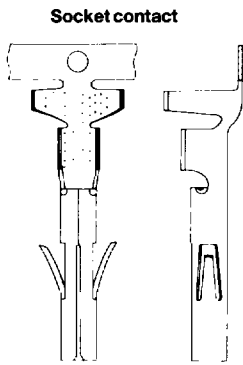


A comparison of Du Pont Power-mate contacts on # 20 AWG (0.5-0.6 mm²) wire and # 14 AWG (2 mm²) wire used in 4 circuit housings. All circuits carrying indicated current.

A comparison of Du Pont Power-Mate contacts on # 20 AWG (0.5-0.6 mm²) wire and # 14 AWG (2 mm²) wire used in 12 circuit housings. All circuits carrying indicated current.



Number of positions	Dimension A		Part numbers		UL rating	Color
	mm	inches	Housing plug	Housing cap		
2	13.97	0.550	66480-014	67295-001	UL 94 V-2	White
2	13.97	0.550	66480-015	67295-002	UL 94 V-0	Red
3	20.32	0.800	66480-011	66484-011	UL 94 V-2	White
3	20.32	0.800	66480-012	66484-012	UL 94 V-0	Red
4	26.67	1.050	66480-001	66484-001	UL 94 V-2	White
4	26.67	1.050	66480-002	66484-002	UL 94 V-0	Red
6	13.97	0.550	67294-001	67293-001	UL 94 V-2	White
6	13.97	0.550	67294-002	67293-002	UL 94 V-0	Red
9	20.32	0.800	67188-001	67187-001	UL 94 V-2	White
9	20.32	0.800	67188-002	67187-002	UL 94 V-0	Red
12	26.67	1.050	67188-004	67187-004	UL 94 V-2	White
12	26.67	1.050	67188-005	67187-005	UL 94 V-0	Red
15	33.02	1.300	67188-007	67187-007	UL 94 V-2	White
15	33.02	1.300	67188-008	67187-008	UL 94 V-0	Red



Socket contacts

Wire size AWG	Insulation diameter		Part numbers		Material
	mm	inches	Contacts on reels	Loose piece contacts	
14-20	1,52-3,30	0.060-0.130	76146-001	76146-002	Brass Phosphor bronze
	1,52-3,30	0.060-0.130	76146-003	76146-004	
	3,30-5,08	0.130-0.200	76148-001	76148-002	Brass Phosphor bronze
	3,30-5,08	0.130-0.200	76148-003	76148-004	
18-24	1,02-2,54	0.040-0.100	76150-001	76150-002	Brass Phosphor bronze
	1,02-2,54	0.040-0.100	76150-003	76150-004	

Pin contacts

Wire size AWG	Insulation diameter		Part numbers		Material
	mm	inches	Contacts on reels	Loose piece contacts	
14-20	1,52-3,30	0.060-0.130	76145-001	76145-002	Brass Phosphor bronze
	1,52-3,30	0.060-0.130	76145-003	76145-004	
	3,30-5,08	0.130-0.200	76147-001	76147-002	Brass Phosphor bronze
	3,30-5,08	0.130-0.200	76147-003	76147-004	
18-24	1,02-2,54	0.040-0.100	76149-001	76149-002	Brass Phosphor bronze
	1,02-2,54	0.040-0.100	76149-003	76149-004	

Split pin contacts*

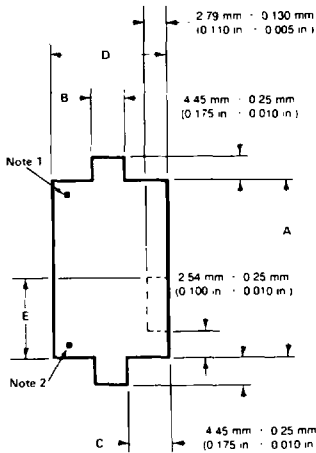
Wire size AWG	Insulation diameter		Part numbers		Material
	mm	inches	Contacts on reels	Loose piece contacts	
14-20	1,52-3,30	0.060-0.130	76484-001	76484-002	Brass Phosphor bronze
	1,52-3,30	0.060-0.130	76484-003	76484-004	
	3,30-5,08	0.130-0.200	76611-001	76611-002	Brass Phosphor bronze
	3,30-5,08	0.130-0.200	76611-003	76611-004	
18-24	1,02-2,54	0.040-0.100	76612-001	76612-002	Brass Phosphor bronze
	1,02-2,54	0.040-0.100	76612-003	76612-004	

*Split pin contact is recommended for 9, 12 and 15 position housings

**Note: Military Part Numbers
DD-86XXX**

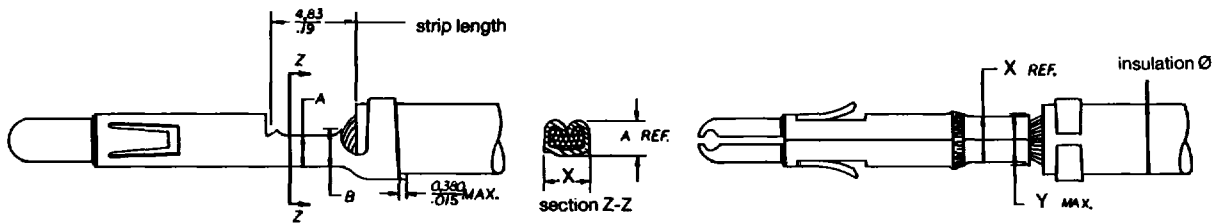
Contact Du Pont Electronics, Military Products Group at 1-800-233-1173 for specific part numbers.

Cap cutout in mounting plate



Number of positions	Cap cutout - dimensions									
	A ± 0.13 / 0.005		B ± 0.25 / 0.010		C ± 0.25 / 0.010		D ± 0.13 / 0.005		E ± 0.25 / 0.010	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
2	14,35	0.565	8,64	0.340	2,41	0.095	13,46	0.530	6,35	0.250
3	20,70	0.815	8,64	0.340	2,41	0.095	13,46	0.530	6,35	0.250
4	27,05	1.065	8,64	0.340	2,41	0.095	13,46	0.530	6,35	0.250
6	14,35	0.565	12,19	0.480	6,99	0.275	26,16	1.030	6,35	0.250
9	20,70	0.815	12,19	0.480	6,99	0.275	26,16	1.030	6,35	0.250
12	27,05	1.065	12,19	0.480	6,99	0.275	26,16	1.030	8,89	0.350
15	33,40	1.315	12,19	0.480	6,99	0.275	26,16	1.030	8,89	0.350

Note: In drawing - Note 1: First position when using mounting plate slot with 6, 9, 12 and 15 position housings.
 Note 2: First position when using mounting plate slot with 2, 3 and 4 position housings.
 Recommended mounting plate thickness: 0,76-2,29 mm (0.030-0.090 inch)



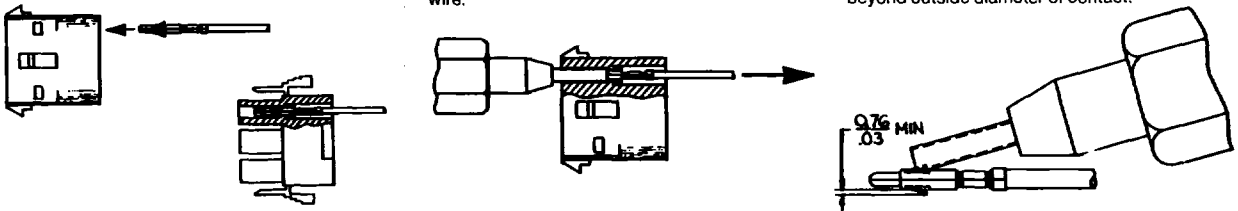
Types of contact	Wire size AWG	Crimp height*		Bellmouth		Dimension X	Dimension Y	Insulation diameter
		Dim. A ± 0.025 / 0.001		Dim. B				
		mm	inches	mm	inches			
76145 pin	14	1,75	0.069	2,39	0.094	2,31 mm 0.091 inch	2,92 mm 0.115 inch	1,52-3,30 mm 0.060-0.130 inch
76146 socket	16	1,50	0.059	2,11	0.083			
76484 split pin	18	1,32	0.052	1,93	0.076			
	20	1,19	0.047	1,83	0.072			
76147 pin	14	1,75	0.069	2,13	0.084	2,31 mm 0.091 inch	2,92 mm 0.115 inch	3,30-5,08 mm 0.130-0.200 inch
76148 socket	16	1,50	0.059	1,88	0.074			
76611 split pin	18	1,32	0.052	1,70	0.067			
	20	1,19	0.047	1,57	0.062			
76149 pin	18	1,22	0.048	1,60	0.063	1,88 mm 0.074 inch	2,54 mm 0.100 inch	1,02-2,54 mm 0.040-0.100 inch
76150 socket	20	1,09	0.043	1,47	0.058			
76612 split pin	22	1,02	0.040	1,40	0.055			
	24	0,97	0.038	1,35	0.053			

*Not applicable for hand tool applications

1. Insert terminated wires at rear side (unpolarized side) of housing until locked

2. To remove contact, place extraction tool (HT-138) over contact until fully inserted. Contact can now be removed by pulling on wire.

3. Before re-inserting contact, use extraction tool (HT-138) to reset retention springs to a minimum of 0,76 mm (0.030 inch) extending beyond outside diameter of contact.



Notes

- Approvals:** 1. UL recognized-file number E 66906
2. Canadian Standards Association (CSA) - file nr. 462923-4
- Application equipment:** semi-automatic bench press OL 740 + applicator OL PM
hand crimping tools HT 254 (AWG 14-20/insulation Ø 1,52-3,30 mm (0.060-0.130 inch))
HT 255 (AWG 14-20/insulation Ø 3,30-5,08 mm (0.130-0.200 inch))
HT 256 (AWG 18-24/insulation Ø 1,02-2,54 mm (0.040-0.100 inch))
extraction tool HT-138
insertion tool HT-141

Products listed are recognized under the Component Program of Underwriters Laboratories Inc.

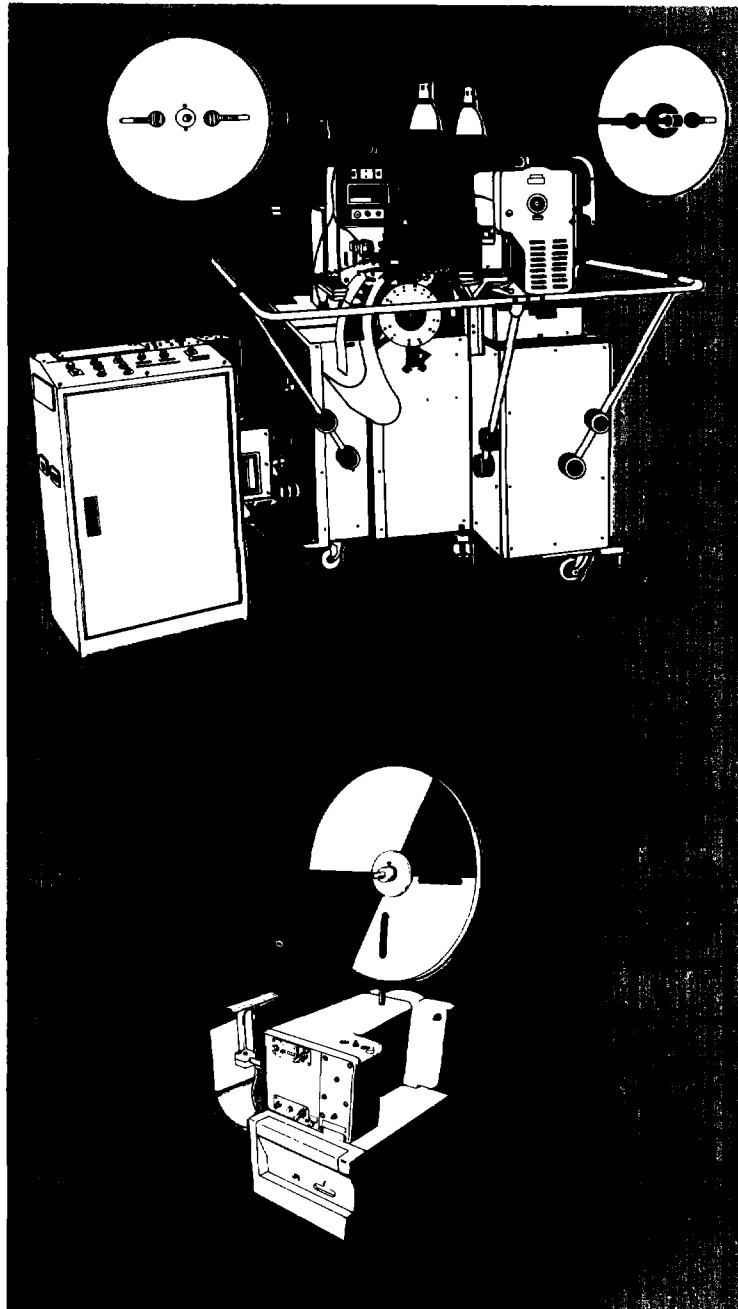


OLYMPIAN Model 700 Fully Automatic Application Machine (14 AWG to 24 AWG)

- For terminating Power-Mate socket and pin contacts
- Ideal for high-volume production requirements
- Automatically measures wire lengths ranging from 3 to 393 inches, cuts the wire, strips the insulation off one or both ends, crimps a terminal to one or both ends, and stacks the terminated wires
- Uses Precision Interchangeable Crimpers. These applicators allow quick tooling changeovers for various wire sizes and styles of terminals. Fine tuning knobs allow fast, precise adjustment of the terminal's wire and insulation barrel crimp height
- Built-in detectors monitor the machine's operation. Signal lights on the control panel indicate the location of the problem
- Simple to learn, easy to operate

OLYMPIAN Model 740 Semi-Automatic Two-Ton Bench Press (14 AWG to 24 AWG)

- For terminating Power-Mate socket and pin contacts
- Ideal for medium-volume production requirements
- Rugged construction, requires little maintenance
- Electrically operated
- Uses Precision Interchangeable Crimpers. These applicators allow quick tooling changeovers for various wire sizes and styles of terminals. Fine tuning knobs allow fast, precise adjustment of the terminal's wire and insulation barrel crimp height
- Easy to operate



	OL-740	OL-700
Application		10,000*
Rate (crimps/hour)	2400*	(5000 leads terminated both ends)
Air consumption	N/A	8.5 L/min. (0.3 scfm)
Air Pressure	N/A	552 kPa (80 psi)
Electrical Requirements	115 V ac, 60 Hz 10 A	220 V ac, 50/60 Hz 3-phase, 15 A
Machine Weight	95 kg (209 lb.)	719 kg (1584 lb.)
Controller Weight	N/A	80 kg (176 lb.)
Machine Dimensions (H x W x D)	114 x 51 x 58 cm (45 x 20 x 23 in.)	208 x 157 x 226 cm (82 x 62 x 98 in.)
Controller Dimensions (H x W x D)	N/A	99 x 72 x 47 cm (39 x 28.5 x 18.5 in.)
Recommended Floor Space	N/A	3 x 3 m (10 x 10 ft.)

*Application rates given are approximate. Actual rates achieved are dependent upon operator dexterity.

Machines	Wire Size (AWG)	Identification Number
OLYMPIAN Model 740 (press only)	—	133911-002
AP-740 Applicators	14-20	132779-002
	18-24	142203-002
	14-20 (large insulation)	142204-002
OLYMPIAN Model 740 (press with applicator)	14-20	133911-501
	18-24	133911-502
	14-20 (large insulation)	133911-503
OLYMPIAN Model 700 (machine only)	—	146085-501
AP-700 Applicators	14-20	132779-001
	18-24	142203-001
	14-20 (large insulation)	142204-001