Radiation Resistant/150°C Pre-Insulated Terminals and Splices

The line of Tyco Electronics radiation resistant/150°C pre-insulated terminals and splices includes terminals and splices of the well-known PIDG and PLASTI-GRIP terminal designs. Radiation resistant terminals are made of fine grade, high conductivity copper with either bright tin-lead or matte tin-plating and feature polyvinylidene fluoride (PVF_2) insulation for high resistance to radiation and solvents. PIDG terminals meet the performance requirements of SAE-AS7928. They are also tested by Tyco Electronics and an independent test facility and have fulfilled all requirements including radiation testing to 200 megarads and operating temperature range from -40°C to +150°C.

One outstanding quality of the standard Tyco Electronics terminals, such as tapered entry ramps, help eliminate bent wire strands and insulation support for stronger, more reliable connections. Serrated or dimpled wire barrels provide maximum contact and tensile strength after crimping, and color coded insulation with wire size stamped on the terminal tongue identifies the product and assists in proper terminal-wire match.

The radiation resistant/150°C terminals are designed and engineered to successfully withstand extreme vibration, shock and structural stresses, and other conditions which can adversely affect the critical circuit requirements in complex equipment. The matching Tyco Electronics tooling precisely crimps all terminations. This uniformity increases reliability and also serves as a built-in quality control factor.

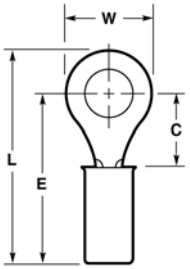
Tyco Electronics

Our commitment. Your advantage.

Ring Tongue Terminals

Material and Finish:

- Terminal body : copper per ASTM-B152 with bright tin/lead (93/7) {3% MIN lead content} plating per ASTM-B545
- Insulation support sleeve : copper per ASTM-B152 with bright tin/lead (93/7) {3% MIN lead content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe



Related Product Data

- Application tooling pages 8-11
- Technical documents page 8

PIDG Terminals - Whisker Mitigating

(Contains 3% Minimum Lead Content in Plating)

Wire Range		Tongue Thickness Maximun	Wire Ins. Diameter Maximum	Stripe Color Code	Stud Size	Dimensions				Part Numbers	
AWG	CMA [mm²]					W	C[1] MIN.	E MAX.	L MAX.	Tin Plate	
										Loose	Tape
26-24	202-509 [.10-.26]	**.029** .74	**.082** 2.09	Yellow	2 M2	**.203** 5.16	**.211** 5.35	**.632** 16.06	**.736** 18.70	53400-1	–
					4	**.203** 5.16	**.211** 5.35	**.632** 16.06	**.736** 18.70	53401-1	–
					6 M3.5	**.250** 6.35	**.243** 6.17	**.664** 16.87	**.792** 20.12	53402-1	–
					8 M4	**.281** 7.13	**.250** 6.35	**.671** 17.05	**.814** 20.68	53403-1	–
					10	**.312** 7.92	**.281** 7.13	**.702** 17.84	**.861** 21.87	53404-1	–
24-20	320-1,290 [.16-.65]	**.025** .64	**.100** 2.54	White	6 M3.5	**.281** 7.13	**.250** 6.35	**.631** 16.03	**.774** 19.66	53809-2	–
22-16	509-3,250 [.26-1.65]	**.033** .84	**.125** 3.18	Red	4	**.218** 5.54	**.156** 3.96	**.560** 14.23	**.672** 17.02	53405-1	–
					6 M3.5	**.218** 5.54	**.156** 3.96	**.560** 14.23	**.672** 17.07	53406-1	–
					6 M3.5	**.250** 6.35	**.250** 6.35	**.654** 16.62	**.782** 19.87	53407-1	53407-2
					8 M4	**.312** 7.91	**.281** 7.13	**.685** 17.4	**.844** 21.44	53408-1	53408-2
					10	**.312** 7.92	**.281** 7.13	**.685** 17.4	**.844** 21.44	53409-1	–
					1/4 M6	**.469** 11.91	**.437** 11.09	**.841** 21.37	**1.078** 27.39	53410-1	53410-2
					5/16 M8	**.469** 11.91	**.437** 11.09	**.841** 21.37	**1.078** 27.39	53411-1	–
					3/8	**.531** 13.49	**.546** 13.86	**.950** 24.13	**1.218** 30.94	53412-1	–
					1/2 M12	**.713** 18.11	**.530** 13.46	**.934** 24.13	**1.293** 32.85	53413-1	–
16-14	2,050-5,180 [1.04-2.62]	**.033** .84	**.150** 3.81	Blue	4	**.250** 6.35	**.171** 4.34	**.575** 14.61	**.703** 17.86	53414-1	–
					6 M3.5	**.250** 6.35	**.171** 4.34	**.575** 14.61	**.703** 17.86	53415-1	–
					6 M3.5	**.312** 7.92	**.281** 7.13	**.685** 17.4	**.844** 21.44	53416-1	53416-2
					8 M4	**.312** 7.92	**.281** 7.13	**.685** 17.4	**.844** 21.44	53417-1	53417-2
					10	**.312** 7.92	**.281** 7.13	**.685** 17.4	**.844** 21.44	53418-1	53418-2
					1/4 M6	**.469** 11.91	**.437** 11.09	**.841** 21.37	**1.078** 27.39	53419-1	–
					5/16 M8	**.469** 11.91	**.437** 11.09	**.841** 21.37	**1.078** 27.39	53420-1	–
					3/8	**.531** 13.49	**.546** 13.86	**.950** 24.13	**1.218** 30.94	53421-1	–
					1/2 M12	**.713** 18.11	**.530** 13.46	**.934** 23.73	**1.293** 32.85	53422-1	–

1-Dimension applies from edge of metal wire barrel to center of stud hole.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Technical Support
USA: 1-800-522-6752
Canada: 1-905-475-6222
Mexico: 01-800-733-8926

www.tycoelectronics.com

Ring Tongue Terminals
(continued)

PIDG Terminals - Whisker Mitigating
(Contains 3% Minimum Lead Content in Plating)

Wire Range		Tongue Thickness Maximun	Wire Ins. Diameter Maximum	Stripe Color Code	Stud Size	Dimensions				Part Numbers	
AWG	CMA [mm²]					W	C[1] MIN.	E MAX.	L MAX.	Tin Plate	
										Loose	Tape
16-14 Heavy Duty	2,050-5,180 [1.04-2.62]	**.050 1.3**	**.230 5.84**	Black	4	**.281** 7.14	**.219** 5.56	**.810** 20.57	**.955** 24.26	53963-1	–
					6 M3.5	**.343** 8.71	**.281** 7.13	**.872** 22.15	**1.046** 26.57	53964-1	–
					8 M4	**.343** 8.71	**.281** 7.13	**.872** 22.15	**1.046** 26.57	53982-1	–
					10	**.343** 8.71	**.281** 7.13	**.872** 22.15	**1.046** 26.57	53983-1	–
					1/4 M6	**.531** 13.49	**.437** 11.09	**1.028** 26.12	**1.296** 32.92	53984-1	–
12-10	5,180-13,100 [2.62-6.64]	**.042 1.07**	**.230 5.84**	Yellow	6 M3.5	**.219** 5.56	**.250** 6.35	**.810** 20.57	**.938** 23.83	54593-1	–
					6 M3.5	**.375** 9.53	**.302** 7.67	**.893** 22.69	**1.083** 27.51	53423-1	–
					8 M4	**.375** 9.53	**.302** 7.67	**.893** 22.69	**1.083** 27.51	53424-1	–
					10	**.375** 9.53	**.302** 7.67	**.893** 22.69	**1.083** 27.51	53425-1	–
					1/4 M6	**.531** 13.48	**.468** 11.88	**1.054** 26.78	**1.322** 33.58	53426-1	–
					5/16 M8	**.531** 13.48	**.468** 11.88	**1.054** 26.78	**1.322** 33.58	53427-1	–
					3/8	**.593** 15.06	**.531** 13.48	**1.115** 28.33	**1.414** 35.92	53428-1	–
					1/2 M12	**.715** 18.16	**.474** 12.04	**1.054** 26.77	**1.414** 35.92	53429-1	–

1-Dimension applies from edge of metal wire barrel to center of stud hole.

Butt Splices

Material and Finish:

- Splice body : copper per ASTM-B152 with bright tin/lead (93/7) {3% MIN lead content} plating per ASTM-B545
- Insulation support sleeve : copper per ASTM-B152 with bright tin/lead (93/7) {3% MIN lead content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe

PIDG Splices - Whisker Mitigating
(Contains 3% Minimum Lead Content in Plating)

Wire Range		Barrel I.D. Minimum	Stripe Color Code	Wire Ins. Diameter Maximum	Dimension Length Maximum	Part Numbers	
AWG	CMA [mm²]					Tin Plate	
						Loose	Tape
26-22	202-810 [.10-.41]	**.029** .73	**Yellow**	**.082** 2.09	**.890** 22.61	53546-1	-
24-20	320-1,290 [.16-.65]	**.043** 1.09	**White**	**.100** 2.54	**1.035** 26.29	53547-1	-
22-16	509-3,250 [.26-1.65]	**.061** 1.54	**Red**	**.125** 3.18	**1.265** 32.14	53548-1	53548-2
16-14	2,050-5,180 [1.04-2.62]	**.085** 2.15	**Blue**	**.150** 3.81	**1.265** 32.14	53549-1	-
12-10	5,180-13,000 [2.62-6.64]	**.129** 3.27	**Yellow**	**.220** 5.59	**.220** 42.07	53550-1	-

Related Product Data

- Application tooling pages 8-11
- Technical documents page 8

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

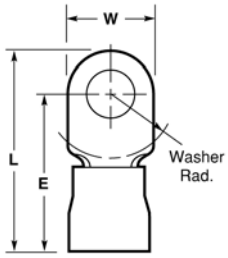
Technical Support
USA: 1-800-522-6752
Canada: 1-905-475-6222
Mexico: 01-800-733-8926

www.tycoelectronics.com

Ring Tongue Terminals

Material and Finish:

- Terminal body : copper per ASTM-B152 with bright tin/lead (93/7) {3% MIN lead content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe



Related Product Data

- Application tooling pages 8-11
- Technical documents page 8

PLASTI-GRIP Terminals - Whisker Mitigating

(Contains 3% Minimum Lead Content in Plating)

Wire Range		Tongue Thickness Maximun	Wire Ins. Diameter Maximum	Stripe Color Code	Stud Size	Max. Washer Rad.	Dimensions			Part Numbers
AWG	CMA [mm²]						W	E MAX.	L MAX.	Loose
8	13,100-20,800 [6.64-10.5]	**.043** 1.1	**.380** 9.66	Red	10	**.437** 11.1	**.431** 10.95	**1.344** 34.13	**1.562** 39.68	53978-1
					1/4 M6	**.437** 11.1	**.478** 12.14	**1.344** 34.14	**1.586** 40.29	53943-1
					5/16 M8	**.500** 12.7	**.587** 14.91	**1.402** 35.62	**1.702** 43.24	54947-1
					3/8	**.500** 12.7	**.587** 14.91	**1.406** 35.72	**1.702** 43.24	53944-1
					1/2 M12	**.500** 12.70	**.875** 22.23	**1.406** 35.72	**1.846** 46.89	53945-1
6	20,800-33,100 [10.5-16.8]	**.048** 1.22	**.436** 11.08	Blue	10	**.421** 10.7	**.468** 11.89	**1.482** 37.65	**1.719** 43.67	53975-1
					1/4 M6	**.421** 10.7	**.500** 12.7	**1.622** 41.2	**1.898** 46.42	53946-1
					3/8	**.515** 13.09	**.625** 15.88	**1.591** 40.42	**1.905** 48.42	53947-1
4	33,100-52,600 [16.8-26.7]	**.051** 1.3	**.515** 13.09	Yellow	10	**.531** 13.49	**.546** 13.87	**1.672** 42.47	**1.948** 49.48	53949-1
					1/4 M6	**.531** 13.49	**.546** 13.87	**1.672** 42.47	**1.948** 49.48	53980-1
					3/8	**.531** 13.49	**.546** 13.87	**1.672** 42.47	**2.014** 51.16	53950-1
					1/2 M12	**.531** 13.49	**.679** 17.25	**1.672** 42.47	**2.014** 51.16	53951-1
2	52,600-83,700 [26.7-42.4]	**.060** 1.53	**.560** 14.23	Red	1/4 M6	**.578** 14.69	**.675** 17.15	**1.731** 43.97	**2.071** 52.60	53977-1
					3/8	**.578** 14.69	**.711** 18.06	**1.731** 43.97	**2.089** 53.07	53953-1
					1/2 M12	**.578** 14.69	**.855** 21.72	**1.731** 43.97	**2.161** 54.9	53954-1

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Technical Support
USA: 1-800-522-6752
Canada: 1-905-475-6222
Mexico: 01-800-733-8926

www.tycoelectronics.com

Wire Pins

Material and Finish:

- Terminal body : copper per ASTM-B152 with bright tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation support sleeve : copper per ASTM-B152 with bright tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe

PIDG PVF_2 Wire Pins - RoHS Compliant

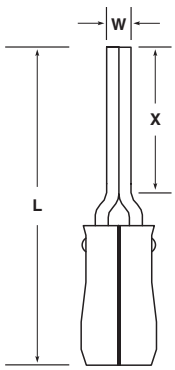
Bright Tin Plated

Wire Range		Tongue Thickness Maximun	Wire Ins. Diameter Maximum	Stripe Color Code	Dimensions			Part Numbers	
AWG	CMA [mm²]				W	X MIN.	L MAX.	Tin Plate Loose	Tin Plate Tape
22-16	493-3,158 [.25-1.6]	**.033** .84	**.013** 3.30	Red	**.071** 1.80	**.390** 9.90	**.903** 22.93	737049-1	–
16-14	1,973-5,131 [1.0-2.60]	**.033** .84	**.154** 3.90	Blue	**.071** 1.80	**.390** 9.90	**.903** 22.93	737051-1	–
12-10	5,131-13,025 [2.6-6.6]	**.042** 1.07	**.236** 6.00	Yellow	**.102** 1.80	**.390** 9.90	**1.128** 28.65	737053-1	–

Wire Pins

Material and Finish:

- Terminal body : copper per ASTM-B152 with matte tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation support sleeve : copper per ASTM-B152 with matte tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe



Matte Tin Plated

Wire Range		Tongue Thickness Maximun	Wire Ins. Diameter Maximum	Stripe Color Code	Dimensions			Part Numbers	
AWG	CMA [mm²]				W	X MIN.	L MAX.	Tin Plate Loose	Tin Plate Tape
22-16	509-3,250 [.26-1.65]	**.033** .84	**.014** 3.56	Red	**.070** 1.78	**.390** 9.91	**.918** 23.32	1958191-1	–
16-14	3,260-5,180 [1.04-2.62]	**.033** .84	**.170** 4.32	Blue	**.070** 1.78	**.390** 9.91	**.933** 23.70	1958192-1	–
12-10	5,180-13,100 [2.62-6.64]	**.041** 1.04	**.250** 6.35	Yellow	**.102** 2.59	**.390** 9.91	**1.148** 29.16	1958193-1	–

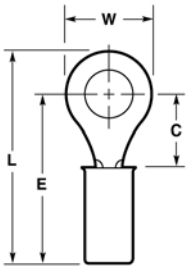
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Technical Support
USA: 1-800-522-6752
Canada: 1-905-475-6222
Mexico: 01-800-733-8926
www.tycoelectronics.com

Ring Tongue Terminals

Material and Finish:

- Terminal body: copper per ASTM-B152 with matte tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation support sleeve : copper per ASTM-B152 with matte tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe



Related Product Data

- Application tooling pages 8-11
- Technical documents page 8

PIDG PVF_2 Rings - RoHS Compliant

Wire Range		Tongue Thickness Maximun	Wire Insulation OD MAX	Stripe Color Code	Stud Size	Dimensions				Part Numbers	
AWG	CMA [mm²]					W	C[1] MIN	E MAX	L MAX	Tin Plate	
										Loose	Tape
26-24	202-509 [.10-.26]	**.029** .74	**.082** 2.09	Yellow	2 M2	**.203** 5.16	**.211** 5.36	**.632** 16.05	**.741** 18.82	696420-1	–
					4	**.203** 5.16	**.211** 5.36	**.632** 16.05	**.741** 18.82	696420-2	–
					6 M3.5	**.250** 6.35	**.243** 6.17	**.644** 16.87	**.797** 20.24	696420-3	–
					8 M4	**.281** 7.14	**.250** 6.35	**.671** 17.04	**.819** 20.80	696420-5	–
					10	**.312** 7.92	**.281** 7.14	**.702** 17.83	**.866** 22.00	696420-6	–
24-20	320-1,290 [.16-.65]	**.025** .64	**.100** 2.54	White	4	**.281** 7.14	**.250** 6.35	**.631** 16.03	**.779** 19.79	696421-1	696421-3
					6 M3.5	**.281** 7.14	**.250** 6.35	**.631** 16.03	**.779** 19.79	696421-2	696421-4
					8 M4	**.312** 7.92	**.281** 7.14	**.662** 16.81	**.826** 20.98	696421-5	696421-7
					10	**.312** 7.92	**.281** 7.14	**.662** 16.81	**.826** 20.98	696421-6	696421-8
22-16	509-3,250 [.26-1.65]	**.033** .84	**.125** 3.18	Red	4	**.218** 5.54	**.156** .396	**.560** 14.22	**.677** 17.20	696422-2	–
					6 M3.5	**.218** 5.54	**.156** 3.96	**.560** 14.22	**.677** 17.20	696422-3	–
					6 M3.5	**.250** 6.35	**.250** 6.35	**.654** 16.61	**.787** 19.99	696422-4	–
					8 M4	**.312** 7.92	**.281** 7.14	**.685** 17.40	**.849** 21.56	696422-5	–
					10	**.312** 7.92	**.281** 7.14	**.685** 17.40	**.849** 21.56	696422-6	–
					1/4" M6	**.469** 11.91	**.437** 11.10	**.841** 21.36	**1.083** 27.51	696422-7	–
					5/16" M8	**.469** 11.91	**.437** 11.10	**.841** 21.36	**1.083** 27.51	696422-8	–
					3/8"	**.531** 13.49	**.546** 13.87	**.950** 24.13	**1.223** 27.51	696422-9	–
					1/2" M12	**.713** 18.11	**.530** 13.46	**.934** 23.72	**1.298** 32.97	1-696422-0	–
16-14	2,050-5,180 [1.04-2.62]	**.033** .84	**.150** 3.81	Blue	4	**.250** 6.35	**.171** 4.34	**.575** 14.61	**.708** 17.98	696423-2	–
					6 M3.5	**.250** 6.35	**.171** 4.34	**.575** 14.61	**.708** 17.98	696423-3	–
					6 M3.5	**.312** 7.92	**.281** 7.14	**.685** 17.40	**.849** 21.56	696423-4	–
					8 M4	**.312** 7.92	**.281** 7.14	**.685** 17.40	**.849** 21.56	696423-5	–
					10	**.312** 7.92	**.281** 7.14	**.685** 14.40	**.849** 21.56	696423-6	–
					1/4" M6	**.469** 11.91	**.437** 11.10	**.841** 21.36	**1.083** 27.51	696423-7	–
					5/16" M8	**.469** 11.91	**.437** 11.10	**.841** 21.36	**1.083** 27.51	696423-8	–
					3/8"	**.531** 13.49	**.546** 13.87	**.950** 24.13	**1.223** 31.06	696423-9	–
					1/2" M12	**.713** 18.11	**.530** 13.46	**.934** 23.72	**1.298** 32.97	1-696423-0	–

1-Dimension applies from edge of metal wire barrel to center of stud hole.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Technical Support
USA: 1-800-522-6752
Canada: 1-905-475-6222
Mexico: 01-800-733-8926

www.tycoelectronics.com

Ring Tongue Terminals
(continued)

PIDG PVF_2 Rings - RoHS Compliant

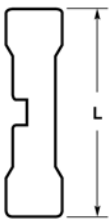
Wire Range		Tongue Thickness Maximun	Wire Insulation OD MAX	Stripe Color Code	Stud Size	Dimensions				Part Numbers	
AWG	CMA [mm²]					W	C[1] MIN	E MAX	L MAX	Tin Plate	
										Loose	Tape
16-14 Heavy Duty	2,050-5,180 [1.04-2.62]	.050 1.27	.230 5.84	Yellow	4	.281 7.14	.219 5.59	.815 20.70	.960 24.38	696430-2	–
					6 M3.5	.343 8.71	.281 7.14	.877 22.28	1.051 26.70	696430-4	–
					8 M4	.343 8.71	.281 7.14	.877 22.28	1.051 26.70	696430-5	–
					10	.343 8.71	.281 7.14	.877 22.28	1.051 26.70	696430-6	–
					1/4" M6	.531 13.49	.437 11.10	1.033 26.24	1.301 33.05	696430-7	–
					5/16" M8	.531 13.49	.437 11.10	1.033 26.24	1.301 33.05	696430-8	–
					3/8"	.531 13.49	.437 11.10	1.033 26.24	1.301 33.05	696430-9	–
					1/2" M12	.750 19.05	.625 15.88	1.221 31.01	1.599 40.61	1-696430-0	–
12-10	5,180-13,000 [2.62-6.64]	.041 1.04	.230 5.84	Yellow	6 M3.5	.375 9.53	.302 7.67	.893 22.68	1.088 27.64	696424-4	–
					8 M4	.375 9.53	.302 7.67	.893 22.68	1.088 27.64	696424-5	–
					10	.375 9.53	.302 7.67	.893 22.68	1.088 27.64	696424-6	–
					1/4" M6	.531 13.49	.468 11.89	1.054 26.77	1.327 33.71	696424-7	–
					5/16" M8	.531 13.49	.468 11.89	1.054 26.77	1.327 33.71	696424-8	–
					3/8"	.593 15.06	.531 13.49	1.115 26.77	1.419 36.04	363424-9	–
					1/2" M12	.715 18.16	.474 12.04	1.054 26.77	1.419 36.04	1-696424-0	–

1-Dimension applies from edge of metal wire barrel to center of stud hole.

Butt Splices

Material and Finish:

- Splice body: copper per ASTM-B152 with matte tin {99.5% MIN Tin content} plating per ASTM-B545
- Insulation support sleeve : copper per ASTM-B152 with matte tin {99.5% MIN tin content} plating per ASTM-B545
- Insulation sleeve : PVF_2, natural with colored stripe



PIDG PVF2 Splices - RoHS Compliant

Wire Range		Wire Insulation OD MAX	Stripe Color Code	L MAX	Part Numbers	
AWG	CMA [mm²]				Tin Plate	
					Loose	Tape
26-22	202-810 [.10-.26]	.082 2.08	Yellow	.082 22.61	696425-1	–
24-20	320-1,290 [.16-.65]	.100 2.54	White	1.035 26.29	696426-1	–
22-16	509-3,250 [.26-1.65]	.125 3.18	Red	1.265 32.13	696427-1	–
16-14	2,050-5,180 [1.04-2.62]	.150 3.81	Blue	1.265 32.13	696428-1	–
12-10	5,180-13,000 [2.62-6.64]	.220 5.59	Yellow	1.656 42.06	696429-1	–

Related Product Data

- Application tooling pages 8-11
- Technical documents page 8

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Technical Support
USA: 1-800-522-6752
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PIDG PVF_2 Wire Pins

Material and Finish:

Loose form terminal and splice tooling for wire range 26-10 AWG [0.12-6.0 mm2]

Technical Documents

Instruction Sheets :

- 408-1559 CERTI-CRIMP hand crimp tools
- 408-1724 crimping dies for 8-2/0 AWG connectors

Application Tooling

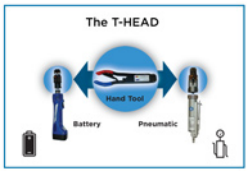
Wire Range		Hand Tools	
AWG	mm^2	Style	Part Number
24-20	.16-.65	DAHT	47907-1
		T-HEAD Tool	59275
		T-HEAD Tool	59300
26-22	.1-.4	DAHT	46121
		T-HEAD Tool	59275
26-24 & 22-16	.1-.2 & .26-1.65	DAHT	47386
		T-HEAD Tool	59250
		T-HEAD Tool	59300
22-16	.26-1.65	DAHT	69151-1
16-14	1.04-2.62	DAHT	47387
		T-HEAD Tool	59250
16-14 HD	1.04-2.62	Heavy Head	59239-4
12-10	2.62-6.64	Heavy Head	59239-4

CERTI-CRIMP Hand Tools

DAHT

Heavy Head Hand Tool

T-HEAD Tool



Battery Crimp Tool Kit

Take automatic crimping away from the bench to the product, with this convenient, portable, battery operated tool. It's at home in the factory or in the field. It performs approximately 100 crimps per charge. Request catalog 1773381 for more information.

626 Pneumatic Tool System

This versatile system provides the ultimate in wire range flexibility for higher volume operation. It's available with hand-or-foot operated configurations. Request catalog 124208 for more information.

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Technical Support
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Tooling for loose form terminals, wire range 8-2 AWG [6.64-42.4 mm2]

Ordering Information:

To insure that all applicable Tyco Electronics part numbers are specified in your order we recommend that you make note of the following information:

1. Select either Electric Hydraulic Tool 1804700-1, -2, Foot Operated Tool 1583659-1 or Hand Pump 1583661-1.

2. Powered systems require a pump, hand or foot control, hose, crimp head and die.

3. The portable battery pump, 1804111-1, includes a hand control

4. Manual systems require hand tools and the battery hand tool requires only dies.

5. Refer to matrix for die, head and hand tool options.

Application Tooling (continued)

Tyco Electronics continues the quality tradition of AMP crimping tools with a new line of industry-standard 10,000 psi (68,950 kPa) hydraulic compression crimp heads, pumps and interchangeable U-dies. A new battery-powered pump and tool options provide unprecedented portability for any crimping application.

Electric/Hydraulic Power Unit :
AWG [6.64-42.4 mm2]. Heads and dies are listed in the table below.

Part Numbers :
Power Unit Only (Includes pressure release on unit)
- 115 Volts 60 Hz—1804700-1 (10,000 psi)
- 230 Volts 60 Hz—1804700-2 (10,000 psi)

Portable, Battery/Hydraulic Power Unit
(Kit includes Hand Controller, 10,000 psi)—1804111-1
Hydraulic Hand Tool 1490749-1 is also available

Crimping Heads, Hand Tools or Dies

Hydraulic Crimping Tooling 10,000 psi Operating Pressure

	Hand-Tool	Hydraulic Head	Hydraulic Heads	
	1490749-1	1490746-1, 1976230-1	1752877-1	1752787-1
Wire Size in AWG (mm^2)	**U-Dies**	**U-Dies**	**Shank Dies**	
8 [7-8.5]	1490749-1	1490746-1, 1976230-1	1752877-1	1752787-1
6 [13-15]	1490534-1	1490534-1	48858-1	48858-1
4 [21]	1490535-1	1490536-1	48860-1	48860-1
2 [34-35]	1490410-1	1490410-1	48861-1	48861-1

Accessory Power Controls and Hoses

- Control and hose accessories must be ordered separately.
- If electric hydraulic tool is to be used in portable applications, a handle control and hose assembly should be used.
- For stationary applications, a foot switch assembly and hose assembly will be necessary.
- Multidirectional valves are used when more than one crimping head is permanently attached to the tool.

Accessories

For use with Power Unit No.	Accessory Description	Accessory Part Number	Remarks
1804700-1 1804700-2	7 ft. [2.13 m] handle control assembly - hose and cord	1901775-1	–
	15 ft. [4.57 m] handle control assembly - hose and cord	1901776-1	
	21 ft. [6.4 m] handle control assembly - hose and cord	1901777-1	
	15 ft. [4.57] foot switch assembly	68284-1	need hose assembly
	6 ft. [0.91 m] hose assembly	1583662-1	68284-1 foot switch
	10 ft. [2.13 m] hose assembly	1583662-2	assembly needed
	20 ft. [4.57 m] hose assembly	1583662-3	with hose
1804700-1 1804700-2	3-way multi-directional valve (manual)	1901782-1	–

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Technical Support
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Mexico: 01-800-733-8926
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DYNA-CRIMP Tooling for loose form terminals. Wire range 8-2/0 AWG [7-70 mm2]

Ordering Information:

To insure that all applicable AMP part numbers are specified in your order, we recommend that you make your selection in four (4) steps:

1. Select either Electric **Hydraulic Tool 69120**. **Foot Operated Tool 69325-3** or **Hand Tool 59974-1**.

2. Select a head if using either the Electric Hydraulic or Foot Operated Tools.

3. Select dies from the table on this page.

4. Select control and hose mechanism from accessories list below when using **69120**.

Application Tooling (continued)

Electric/Hydraulic Power Unit :

This unit provides crimping for terminals in the wire range of 8-2/0 AWG [7-70 mm^2]. Heads and dies are listed in the table below.

Part Numbers :

Power Unit Only (Includes pressure release on unit)

115 Volts 60 Hz : 69120

230 Volts 60 Hz : 69120-2

Crimping Heads and Dies for Tools 69120-1, 69325-3 and 59974-1

Wire Range		PLASTI-GRIP Style Terminals	
AWG	mm^2	Dies for Head 69066	Dies for Head 69051 and 59974-1
8	7-8	48858-1	48752-1 47820*
6	18-15	48859-1	48753-1* 47821*
4	21	48860-1	48754-1 47822*
2	34-35	48861-1 47239-1**	48755-1 47823*

*No insulation crimp.
**Large expansion.

Accessory Power Controls and Hoses

- Control and hose accessories must be ordered separately.
- If electric hydraulic tool is to be used in portable applications, a handle control and hose assembly should be used.
- For stationary applications, a foot switch assembly and hose assembly will be necessary.
- Multidirectional valves are used when more than one crimping head is permanently attached to the tool.

Accessories

For use with Power Unit No.	Accessory Description	Accessory Part Number	Remarks
69120-1 69120-2	7 ft. [2.13 m] handle control assembly - hose and cord	59907-7	–
	15 ft. [4.57 m] handle control assembly - hose and cord	1-59907-5	–
	15 ft. [4.57 m] handle control assembly - cord (less hose)	1-59908-5	–
	21 ft. [6.4 m] handle control assembly - hose and cord	2-59907-1	–
	21 ft. [6.4 m] handle control assembly - cord (less hose)	2-59908-1	–
	28 ft. [8.53 m] handle control assembly - hose and cord	2-59907-8	–
	15 ft. [4.57] foot switch assembly	68284-1	need hose assembly
	3 ft. [0.91 m] hose assembly	59909-3	68284-1 foot switch
	7 ft. [2.13 m] hose assembly	59909-7	assembly needed
	15 ft. [4.57 m] hose assembly	1-59909-5	with these hose
	21 ft. [6.4 m] hose assembly	2-59909-1	assemblies
69120-1 69120-2	3-way multi-directional valve	59220	–
	6-way multi-directional valve	59221	foot switch only

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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Hydraulic Hand Tool for Wire Range 8-2 AWG [7-35 mm2]

Application Tooling (continued)

Hydraulic Hand Tool
Part No. 1490749-1
Dies for this tool are listed in the table on page 9.

Hydraulic Hand Tool
Part No. 59974-1
Dies for this tool are listed in the table on page 10 under head No. **69051**.

Tape Form Terminal and Splice Tooling for Wire Range 24-10 AWG [0.2-6 mm2]

Tyco Electonics application tools are designed to produce a carefully controlled, uniform pressure crimp, whether manually or pneumatically powered. All tools feature matching dies that fully "bottom" at the completion of the crimp, resulting in a proper crimp height. These dies are color coded to aid in matching tool to wire size.

Model G Terminating Machine
Part No. 354500-1
Applicator : 567200-3

TAPETRONIC Machine
Part No. 69875
Requires dies. No applicator required.

Dies for Tape Mounted Terminals

Wire Range		Dies
AWG	mm²	
22-16	0.3 - 1.4	69872
16-14	1.25 - 2.0	69873
12-10	3.0 - 6.0	69874

For AMP-O-LECTRIC Machine 565435-5, use aplicator 567200-2

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Part Number Index

Part No.	Page	RoHS Code
53400-1	2	L
53401-1	2	L
53402-1	2	L
53403-1	2	L
53404-1	2	L
53405-1	2	L
53406-1	2	L
53407-1	2	L
53407-2	2	L
53408-1	2	L
53408-2	2	L
53409-1	2	L
53410-1	2	L
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53411-1	2	L
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53428-1	3	L
53429-1	3	L
53546-1	3	L
53547-1	3	L
53548-1	3	L
53548-2	3	L
53549-1	3	L
53550-1	3	L

Part No.	Page	RoHS Code
53809-2	2	L
53943-1	4	L
53944-1	4	L
53945-1	4	L
53946-1	4	L
53947-1	4	L
53949-1	4	L
53950-1	4	L
53951-1	4	L
53953-1	4	L
53954-1	4	L
53963-1	3	L
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53980-1	4	L
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53983-1	3	L
53984-1	3	L
54593-1	3	L
54947-1	4	L
696420-1	6	R
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696420-5	6	R
696420-6	6	R
696421-1	6	R
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696422-2	6	R
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696422-4	6	R
696422-5	6	R
696422-6	6	R
696422-7	6	R
696422-8	6	R

Part No.	Page	RoHS Code
696422-9	6	R
1-696422-0	6	R
696423-2	6	R
696423-3	6	R
696423-4	6	R
696423-5	6	R
696423-6	6	R
696423-7	6	R
696423-8	6	R
696423-9	6	R
1-696423-0	6	R
696424-4	7	R
696424-5	7	R
696424-6	7	R
696424-7	7	R
696424-8	7	R
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696430-9	7	R
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737049-1	5	R
737051-1	5	R
737053-1	5	R
1958191-1	5	R
1958192-1	5	R
1958193-1	5	R

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Fax: +370-5-213-1403
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Fax: +48-22-4576-720
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Fax: +48-22-4576-720

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Fax: +41-71-447-0444

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Tyco Electronics Corporation
Harrisburg, PA

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