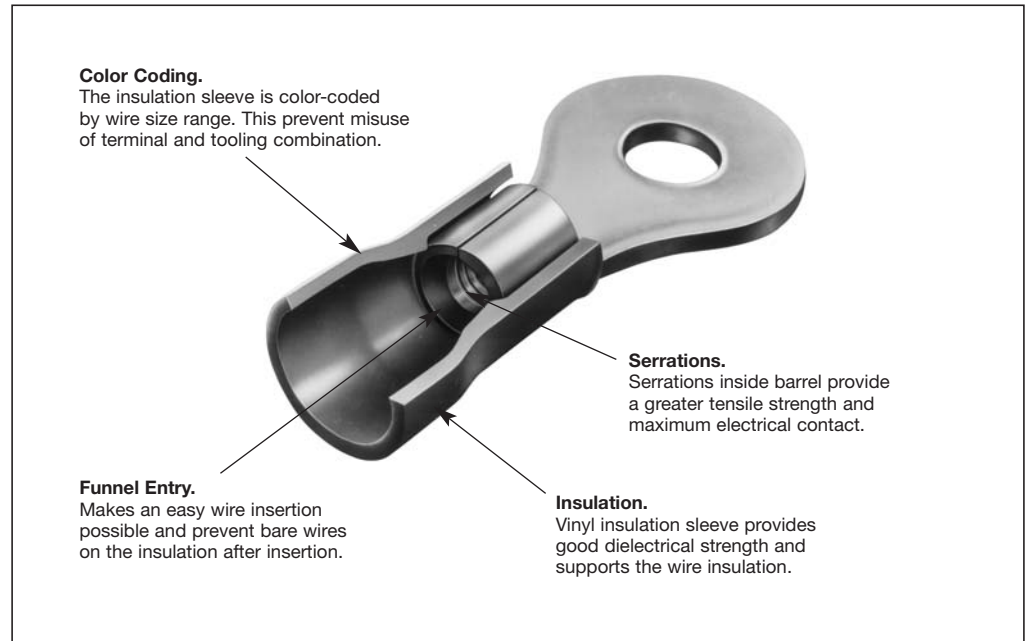


Introduction



Product Facts

- Terminal is made of high conductivity copper, electro tin plated for improved corrosion resistance.
- Serrated inner wire barrel provides maximum electrical contact and tensile strength after crimping.
- Conical entry of the wire barrel allows easier insertion of the stripped wire.
- Expanded vinyl insulation sleeve to accept a wide range of wire insulation diameters.
- Insulation sleeves and corresponding tooling are color-coded by wire range for easier identification.
- A variety of PLASTI-GRIP terminals and splices are UL listed File E 13288 and certified by CSA File LR 7189.



Pre-insulated PLASTI-GRIP solderless terminals and splices have been designed specifically to answer the need for inexpensive, insulated electrical terminations.

The appeal of PLASTI-GRIP products lies in their broad range of wire sizes, built-in pre-insulation, ease and speed of application, uniform reliability and low installed cost. They can be used in almost every type of industrial or commercial applications.

As true of all Tyco Electronics terminals and splices lines, carefully engineered application tooling has been developed for the PLASTI-GRIP program to ensure uniformly high quality terminations.

Terminal and insulation sleeve are simultaneously crimped. A pre-insulated connection of great tensile strength is achieved. The most advanced terminal is useless, if incorrectly crimped.

Tyco Electronics has designed the tool and terminal as a team to achieve ease and speed of application and to provide a precise crimping for every wire size. The crimped insulation sleeve provides a degree of support to the wire.

A wide range of professional hand tools, with a patented ratchet device to ensure the crimp cycle is completed before releasing, are available.

The insulation sleeve is dot coded during crimping. In combination with the wire size on the tongue and the sleeve color it offers a built-in quality control factor.

For large production runs pneumatic or electrical tooling is available. A range of service tools completes the tooling program of Tyco Electronics.



AWG Identification Numbers

The International AWG Identification Numbers

Each Tyco Electronics Terminal and Splice covers specific international wire range and has the applicable wire size marked on the tongue or the barrel. Insulated terminals and splices are color coded for easy identification. All application tools have a special matching control system.

With this technique the quality of the termination made can be reliably checked at any time. During crimping the application tooling marks a proper visual code on the terminal or insulation sleeve. If the code of the terminal and the mark of the tool are corresponding, a reliable termination with the correct tooling has been made.

Cross Reference of AWG Code Numbers to Wire Size Range

AWG Code Number	Wire Size Range (mm ²)	for DIN Cross Section (mm ²)
26–22	0.10– 0.40	0.14/0.20/0.25/0.35
22–16	0.25– 1.60	0.35/0.50/0.75/1.00/1.50
16–14	1.00– 2.60	1.00/1.50/2.50
16–14 HD*	1.00– 2.60	1.00/1.50/2.50
12–10	2.70– 6.60	4.00/6.00
8	6.70– 10.50	10.0
6	10.60– 16.70	16.0
4	16.80– 26.60	25.0
2	26.70– 42.40	35.0
1/0	42.50– 60.50	50.0
2/0	60.60– 76.20	70.0
3/0	76.30– 97.00	95.0
4/0	98.00–120.00	120.0
250–300 MCM	121.00–151.00	150.0
300–350 MCM	152.00–192.00	185.0
400–350 MCM	193.00–242.00	240.0
500–600 MCM	243.00–304.00	300.0

*) Heavy-duty terminals use AWG 12–10 (2.7–6.6 mm²) tooling.

Minimum Number of Wires, Diameter of Conductor for Insulated High Current Conductors

Wire Size Range (mm ²)	Number and Diameter of Wires (mm)	Diameter of Conductor (mm)	Wire Size Range (mm ²)	Number and Diameter of Wires (mm)	Diameter of Conductor (mm)
0.14	1 x 0.42	0.42	25.0	1 x 5.64	5.64
	18 x 0.10	–		7 x 2.13	6.40
	8 x 0.15	–		84 x 0.62	7.70
0.20	1 x 0.50	0.50		200 x 0.40	7.50
	11 x 0.15	–	35.0	797 x 0.20	7.60
	26 x 0.10	–		19 x 1.53	7.70
0.25	1 x 0.60	0.60		133 x 0.58	8.70
	14 x 0.15	–		280 x 0.40	8.70
0.35	1 x 0.67	0.67	50.0	1115 x 0.20	9.00
	7 x 0.26	0.80		19 x 1.83	9.20
	12 x 0.21	0.90		133 x 0.69	10.40
0.50	1 x 0.80	0.80		400 x 0.40	11.00
	7 x 0.30	0.90	70.0	1592 x 0.20	11.00
	16 x 0.21	1.00		19 x 2.17	11.00
0.75	1 x 1.00	1.00		189 x 0.69	12.70
	24 x 0.20	1.20		560 x 0.40	12.00
1.00	1 x 1.13	1.13	95.0	1427 x 0.25	12.50
	32 x 0.20	1.30		19 x 2.52	12.60
	1 x 1.38	1.38		259 x 0.69	14.50
1.50	7 x 0.52	1.60		485 x 0.50	14.90
	30 x 0.25	1.60	120.0	1936 x 0.25	14.90
	1 x 1.78	1.78		37 x 2.03	14.20
2.50	7 x 0.67	2.00		336 x 0.67	16.40
	50 x 0.25	2.10		614 x 0.50	16.00
4.00	1 x 2.26	2.26	150.0	2445 x 0.25	16.40
	19 x 0.52	2.60		37 x 2.26	15.80
	56 x 0.30	2.80		392 x 0.69	18.00
6.00	1 x 2.26	2.26		765 x 0.50	19.20
	19 x 0.64	3.20	185.0	2123 x 0.30	19.30
	84 x 0.30	3.50		37 x 2.52	18.00
10.00	1 x 3.57	3.57		494 x 0.69	19.00
	7 x 1.35	4.10		944 x 0.44	20.00
	49 x 0.51	4.60	240.0	2618 x 0.30	21.00
16.00	80 x 0.40	5.00		61 x 2.24	20.50
	1 x 4.52	4.52		627 x 0.69	22.00
	7 x 1.70	5.10		1225 x 0.50	23.00
	49 x 0.65	5.90	300.0	3396 x 0.30	24.00
	127 x 0.40	6.00		61 x 2.50	23.00
				790 x 0.69	25.00
				1530 x 0.50	27.00

Ring Tongue Terminals

Material and Finish

Insulation:

Vinyl acc. UL 94 V-0

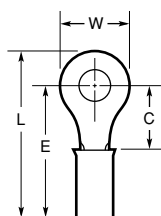
Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545

Style A



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C Min.	E Max.	L Max.			Loose- Piece	Tape Mounted
22-16 (0.26-1.65)	.033 0.84	2 M2	A	.218	.156	.572	.684		.140	34140	2-34140-1
				5.54	3.96	14.53	17.37		.125	32944	–
		4	A	.218	.156	.572	.684		.140	–	2-34141-1
				5.54	3.96	14.53	17.37		.140	34143	2-34143-1
		6 M3.5	A	.281	.250	.666	.809		.140	34143	2-34143-1
				7.14	6.35	16.92	20.55		.125	32945	2-32945-1
				.218	.156	.572	.684		.125	–	1-34142-1
				5.54	3.96	14.53	17.37		.140	–	2-32947-1
				.281	.250	.666	.809		.140	34144	–
				7.14	6.35	16.92	20.55		.140	–	2-326819-1
				.312	.281	.697	.856		.125	–	2-32950-1
				7.92	7.14	17.70	21.74		.140	34147	–
		8 M4	A	.281	.250	.666	.809		.125	32948	2-32948-1
				7.14	6.35	16.92	20.55		.140	34145	2-34145-1
				.312	.281	.697	.856		.125	32951	–
				7.92	7.14	17.70	21.74		.140	34148	–
16-14 (1.04-2.62)	.033 0.84	10	A	.281	.250	.666	.809		.140	34146	2-34146-1
				7.14	6.35	16.92	20.55		.140	–	2-34146-5
				.312	.281	.697	.856		.125	32952	2-32952-1
		1/4 M6	A	.469	.437	.853	1.090		.125	–	2-32953-1
				11.91	11.10	21.67	27.69		.140	34150	–
		5/16 M8	A	.469	.437	.853	1.090		.140	34151	2-34151-1
		3/8	A	.531	.546	.962	1.230		.140	34152	2-34152-2
		4	A	.250	.171	.587	.715		.170	34157	–
		6 M3.5	A	.250	.171	.587	.715		.170	–	2-34158-1
				6.35	4.34	14.91	18.16		.145	–	2-32958-1
				.343	.281	.697	.871		.170	34159	2-34159-1
				8.71	7.14	17.70	22.12		.170	–	–

Note: “C” dimension applies from edge of metal wire barrel to centre of stud hole (styles A & E).

Ring Tongue Terminals (continued)

Material and Finish

Insulation:

Vinyl acc. UL 94 V-0

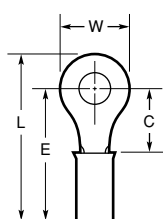
Terminal Body:

Copper per ASTM B-152

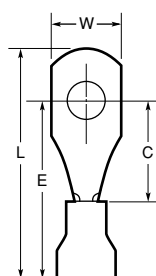
Plating:

Tin per ASTM B-545

Style A



Style E



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C Min.	E Max.	L Max.			Loose- Piece	Tape Mounted
16-14 (1.04-2.62)	.033 0.84	8 M4	A	.312 7.92	.250 6.35	.666 16.92	.825 20.96		.170 4.32	328527	2-328527-1
				.343 8.71	.281 7.14	.697 17.70	.871 22.12		.145 3.68	32959	2-32959-1
				.343 8.71	.281 7.14	.697 17.70	.871 22.12		.170 4.32	34160	2-34160-1
			10 A	.343 8.71	.281 7.14	.697 17.70	.871 22.12		.145 3.68	–	2-32960-1
				.469 11.91	.437 11.10	.853 21.67	1.090 27.69		.145 3.68	32961	–
				.469 11.91	.437 11.10	.853 21.67	1.090 27.69		.170 4.32	34162	–
		5/16 M8	A	.469 11.91	.437 11.10	.853 21.67	1.090 27.69		.170 4.32	34163	2-34163-1
				.531 13.49	.546 13.87	.962 24.43	1.248 31.70		.170 4.32	34164	2-34164-2
				.531 13.49	.546 13.87	.962 24.43	1.248 31.70		.170 4.32	–	2-34164-4
			10 A	.343 8.71	.281 7.14	.872 22.15	1.046 26.57		.200 5.08	–	2-34823-1*
				.343 8.71	.281 7.14	.872 22.15	1.046 26.57		.250 6.35	–	2-321518-1
				.500 12.70	.344 8.74	.935 23.75	1.188 30.18		.230 5.84	35349	–
16-14HD** (1.04-2.62)	.050 1.27	1/4 M6	A	.531 13.49	.437 11.10	1.028 26.11	1.296 32.92		.200 5.08	34824	–
				.750 19.05	.625 15.88	1.216 30.89	1.594 40.49		.200 5.08	34826	–
				.281 7.14	.219 5.56	.810 20.57	.953 24.21		.250 6.35	34852	–
			6 M3.5	.375 9.53	.302 7.67	.893 22.68	1.098 27.89		.230 5.84	34168	–
				.312 7.92	.302 7.67	.953 24.21	1.111 28.22		.300 7.62	–	1-330518-2
				.375 9.53	.302 7.67	.893 22.68	1.083 27.51		.250 6.35	–	2-328261-1
12-10 (2.62-6.64)	.042 1.07	10 A	A	.375 9.53	.302 7.67	.893 22.68	1.098 27.89		.250 6.35	34854	2-34854-1
				.400 10.16	.468 11.89	1.118 28.40	1.373 34.87		.300 7.62	–	55678-2
				.500 12.70	.344 8.74	.994 25.25	1.247 31.67		.300 7.62	35492	–
			E	.531 13.49	.468 11.89	1.059 26.90	1.327 33.71		.250 6.35	34855	2-34855-1
				.531 13.49	.468 11.89	1.059 26.90	1.327 33.71		.230 5.84	34172	2-34172-1
				.531 13.49	.468 11.89	1.059 26.90	1.327 33.71		.250 6.35	34856	2-34856-1
12-10 (2.62-6.64)	.042 1.07	5/16 M8	A	.593 15.06	.531 13.49	1.122 28.50	1.421 36.09		.230 5.84	–	2-34173-1
				.750 19.05	.625 15.88	1.216 30.89	1.594 40.49		.250 6.35	34837	2-34837-4

*) Not UL or CSA Approved or Listed.

**) Heavy duty for extra mechanical strength.

Note: "C" dimension applies from edge of metal wire barrel to centre of stud hole (styles A & E).

Ring Tongue Terminals (continued)

Material and Finish

Insulation:

Vinyl acc. UL 94 V-0

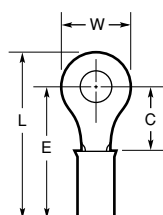
Terminal Body:

Copper per ASTM B-152

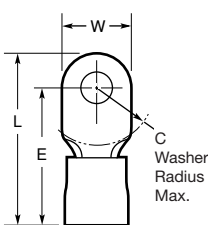
Plating:

Tin per ASTM B-545

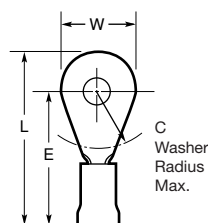
Style A



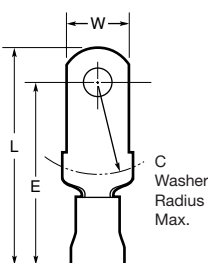
Style B



Style C



Style F



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C Min.	E Max.	L Max.			Loose- Piece	Tape Mounted
8 (6.64–10.5)	.043 1.09	8 M4	C	.478	.437	1.344	1.586		.360 9.14	52041	1-52041-6
				12.14	11.10	34.14	40.28		.360 9.14	52263	1-52263-2
			B	.431	.437	1.338	1.556		.390 9.91	–	1-52263-4
				10.95	11.10	33.99	39.52		.330 8.38	52263-1	1-52263-3
		10 M6	C	.431	.437	1.303	1.561		.360 9.14	–	1-55621-2
				10.95	11.10	33.10	39.65		.360 9.14	52041-1	52041-7
			B	.478	.437	1.344	1.586		.330 8.38	52041-3	52041-9
				12.14	11.10	34.14	40.64		.360 9.14	52291	52291-4
		5/16 M8	C	.587	.500	1.400	1.696		.360 9.14	52291-1	52291-5
				14.91	12.70	35.56	43.08		.330 8.38	52262-1	–
			A	.875	.625	1.420	1.860		.360 9.14	52042-2	–
				22.23	15.88	36.07	47.24		.436 11.07	52265	52265-3
6 (10.5–16.8)	.046 1.22	8 M4	C	.500	.515	1.591	1.869		.436 11.07	52042-4	–
				12.70	13.08	40.41	46.84		.450 11.43	–	55679-2
			B	.468	.421	1.482	1.719		.436 11.07	52042-1	–
				11.89	10.69	37.64	43.66		.360 9.14	52042-3	–
		10 M6	C	.500	.515	1.591	1.869		.450 11.43	52264	52264-4
				12.70	13.08	40.41	47.47		.450 11.43	52264-1	52264-5
			B	.625	.515	1.591	1.906		.436 11.07	52350	–
				15.88	13.08	40.41	48.41		.450 11.43	52043-2	–
		5/16 M8	C	.815	.515	1.441	1.851		.450 11.43	–	55680-2
				20.70	13.08	36.60	47.02		.450 11.43	52043-3	–
			B	.546	.531	1.672	1.948		.515 13.08	52043-1	–
				13.87	13.49	42.47	49.48		.450 11.43	52266-3	–
4 (16.8–26.7)	.051 1.30	10 M6	B	.679	.531	1.672	2.014		.450 11.43	52266-4	–
				17.25	13.49	42.47	51.16		.515 13.08	52266-1	–
			B	.679	.531	1.672	2.014				
				17.25	13.49	42.47	51.16				

Ring Tongue Terminals (continued)

Material and Finish

Insulation:

Vinyl acc. UL 94 V-0

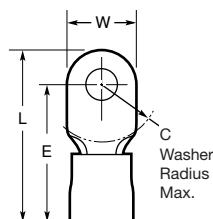
Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545

Style B



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C Min.	E Max.	L Max.			Loose- Piece	Tape Mounted
1/0 (26.7–42.4)	.060 1.52	1/4 M6	B	.675 17.15	.578 14.68	1.731 43.97	2.071 52.60		.560 14.22	52267-1	–
				.675 17.15	.578 14.68	1.731 43.97	2.071 52.60		.632 16.05	52267	–
		5/16 M8	B	.711 18.06	.578 14.68	1.731 43.97	2.089 53.06		.632 16.05	52044-1	–
				.711 18.06	.578 14.68	1.731 43.97	2.089 53.06		.632 16.05	52044-2	–
1/0 (42.4–60.6)	.073 1.85	5/16 M8	B	.807 20.50	.625 15.88	2.041 51.84	2.447 62.15		.684 17.37	52045-1	–
		3/8	B	.807 20.50	.625 15.88	2.041 51.84	2.447 62.15		.665 16.89	52045-5	–

Ring Tongue 90° Bent Terminals

Material and Finish

Insulation:

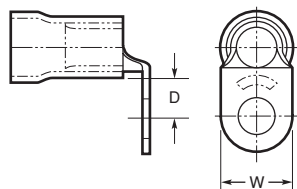
Nylon

Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Range	Part Numbers	
			W	C Min.			Loose- Piece	Tape Mounted
8 (6.64–10.5)	.043 1.09	10	.431 10.95	.311 7.90		.360 9.14	55654-1	–
6 (10.5–16.8)	.048 1.22	10	.500 12.70	.310 7.87		.436 11.07	54753-1	–
		1/4 M6	.500 12.70	.379 9.63		.436 11.07	54754-1	–

Spade Tongue Terminals

Material and Finish

Insulation:

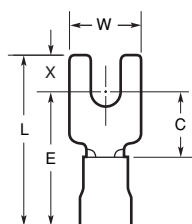
Vinyl acc. UL 94 V-0

Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose- Piece	Tape Mounted
22-16 (0.26-1.65)	.033 0.84	6 M3.5	.250 6.35	.312 7.92	.728 18.49	.858 21.79	.125 3.18		.140 3.56	327043	2-327043-1
			.297 7.54	.203 5.16	.619 15.72	.765 19.43	.141 3.58		.125 3.18	327735	2-327735-1
			.297 7.54	.203 5.16	.619 15.72	.765 19.43	.141 3.58		.140 3.56	–	2-320665-1
		8 M4	.375 9.53	.312 7.92	.728 18.49	.920 23.37	.187 4.75		.120 3.18	32981	–
			.375 9.53	.312 7.92	.728 18.49	.920 23.37	.187 4.75		.140 3.56	34155	2-34155-1
		10	.375 9.53	.312 7.92	.728 18.49	.920 23.37	.187 4.75		.140 3.56	34156	2-34156-1
16-12 (1.04-2.62)	.033 0.84	6 M3.5	.297 7.54	.203 5.16	.619 15.72	.765 19.43	.141 3.58		.145 3.68	322994	2-322994-1
		10	.385 9.78	.312 7.92	.728 18.49	.920 23.37	.187 4.75		.170 4.32	–	2-34167-1
12-10 (2.62-6.64)	.042 1.07	10	.406 10.31	.296 7.52	.887 22.53	1.095 27.81	.203 5.16		.230 5.84	–	2-34176-1

Note: “C” dimension applies from edge of metal wire barrel to centre of stud hole.

Flanged Spade Tongue Terminals

Material and Finish

Insulation:

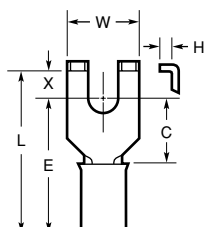
Vinyl acc. UL 94 V-0

Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545



Wire Size AWG (mm²)	Tongue Material Thickness Max.	Stud Size	Dimensions						Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X	H Min.			Loose- Piece	Tape Mounted
22-16 (0.26-1.65)	.033 0.84	6 M3,5	.296 7.52	.203 5.16	.619 15.72	.749 19.02	.125 3.18	.045 1.14		.140 3.56	322249	1-322249-1
		8 M4	.296 7.52	.203 5.16	.619 15.72	.749 19.02	.125 3.18	.045 1.14		.140 3.56	1-322249-0	1-322249-9
			.416 10.57	.250 6.35	.666 16.92	.842 21.39	.171 4.34	.062 1.57		.140 3.56	324169	—
		10	.296 7.52	.203 5.16	.619 15.72	.749 19.02	.125 3.18	.045 1.14		.140 3.56	328516	2-328516-1
16-24 (1.04-2.62)	.033 0.84	6 M3.5	.294 7.47	.203 5.16	.619 15.72	.749 19.02	.125 3.18	.047 1.19		.170 4.32	—	2-324165-1
		8 M4	.294 7.47	.203 5.16	.619 15.72	.749 19.02	.125 3.18	.047 1.19		.170 4.32	—	53874-2
12-10 (2.62-6.64)	.042 1.07	6 M3.5	.296 7.52	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32		.230 5.84	324581	1-324581-1
		8 M4	.416 10.57	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32		.230 5.84	—	1-324172-0
		10	.416 10.57	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32		.250 6.35	—	52856-1

Note: “C” dimension applies from edge of metal wire barrel to centre of stud hole.

Short Spring Spade Tongue Terminals

Material and Finish

Insulation:

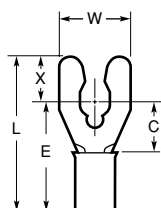
Vinyl acc. UL 94 V-0

Terminal Body:

Phosphor Bronze per ASTM B-139
for wire sizes 24 to 14, Brass per
ASTM B-36 for wire sizes 12 to 10

Plating:

Tin per ASTM B-545
except where noted



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose- Piece	Tape Mounted
24-20 (0.16-0.65)	.025 0.64	4	.203 5.16	.219 5.56	.624 15.85	.744 18.90	.115 2.92	○	.125 3.18	—	53829-2
		4	.203 5.16	.250 6.35	.666 16.92	.811 20.60	.140 3.56	●	.140 3.56	52947	52947-1
		6 M3.5	.234 5.94	.250 6.35	.666 16.92	.811 20.60	.140 3.56	●	.140 3.56	53240-1	53240-2
			.250 6.35	.250 6.35	.666 16.92	.811 20.60	.140 3.56	●	.140 3.56	52949	52949-1
		8 M4	.250 6.35	.250 6.35	.715 18.16	.860 21.84	.140 3.56	●	.200 5.08	—	52949-3
			.244 6.20	.281 7.14	.697 17.70	.872 22.15	.170 4.32	●	.140 3.56	53241-1	53241-2
	.033 0.84	10	.375 9.53	.281 7.14	.697 17.70	.872 22.15	.170 4.32	●	.140 3.56	52950	52950-1
			.294 7.47	.281 7.14	.697 17.70	.920 23.37	.218 5.54	●	.140 3.56	53242-1	53242-2
		6 M3.5	.294 7.47	.281 7.14	.746 18.95	.969 24.61	.218 5.54	●	.200 5.08	—	53242-6
			.406 10.31	.281 7.14	.697 17.70	.920 23.37	.218 5.54	●	.140 3.56	—	52951-1
		8 M4	.406 10.31	.281 7.14	.746 18.95	.969 24.61	.218 5.54	●	.200 5.08	—	52951-3
			.250 6.35	.250 6.35	.666 16.92	.811 20.60	.140 3.56	●	.170 4.32	52955	52955-1
16-14 (1.04-2.62)	.033 0.84	10	.250 6.35	.250 6.35	.666 16.92	.811 20.60	.140 3.56	●	.250 6.35	52955-2	52955-3
			.244 6.20	.281 7.14	.697 17.70	.872 22.15	.170 4.32	●	.170 4.32	53244-1	53244-2
		6 M3.5	.375 9.53	.281 7.14	.697 17.70	.872 22.15	.170 4.32	●	.170 4.32	52956	52956-1
			.294 7.47	.281 7.14	.697 17.70	.920 23.37	.218 5.54	●	.170 4.32	53245-1	53245-2
		8 M4	.294 7.47	.281 7.14	.746 18.95	.969 24.61	.218 5.54	●	.250 6.35	—	53245-6
			.406 10.31	.281 7.14	.697 17.70	.920 23.37	.218 5.54	●	.170 4.32	52957	52957-1
	.042 1.07	10	.406 10.31	.281 7.14	.746 18.95	.969 24.61	.218 5.54	●	.250 6.35	—	52957-3
			.250 6.35	.174 4.42	.775 19.69	.959 24.36	.179 4.55	●	.200 5.08	52961	52961-1
		6 M3.5	.250 6.35	.174 4.42	.775 19.69	.959 24.36	.179 4.55	●	.250 6.35	53246-1	—
			.312 7.92	.276 7.01	.877 22.28	1.052 26.72	.170 4.32	●	.250 6.35	53247-1	53247-2
		8 M4	.375 9.53	.276 7.01	.877 22.28	1.052 26.72	.170 4.32	●	.200 5.08	52962	52962-1
			.406 10.31	.276 7.01	.877 22.28	1.100 27.94	.218 5.54	●	.200 5.08	52963	52963-1
12-10 (2.62-6.64)	.042 1.07	10	.406 10.31	.276 7.01	.936 23.77	1.159 29.44	.218 5.54	●	.300 7.62	—	52963-5

Note: "C" dimension applies from edge of metal wire barrel to centre of stud hole.

Long Spring Spade Tongue Terminals

Material and Finish

Insulation:

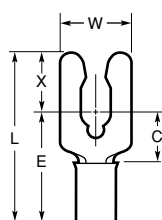
Vinyl acc. UL 94 V-0

Terminal Body:

Phosphor Bronze per ASTM B-139 for wire sizes 24 to 14, Brass per ASTM B-36 for wire sizes 12 to 10

Plating:

Tin per ASTM B-545 except where noted



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose- Piece	Tape Mounted
22-16 (0.26-1.65)	.033 0.84	6 M3.5	.250 6.35	.238 6.05	.664 16.87	.945 24.00	.276 7.01		.140 3.56	52453	52453-1
		8 M4	.281 7.14	.270 6.86	.696 17.68	.991 25.17	.290 7.37		.140 3.56	52454	52454-1
16-14 (1.04-2.62)	.033 0.84	6 M3.5	.250 6.35	.238 6.05	.664 16.87	.945 24.00	.276 7.01		.170 4.32	52463	52463-1
		8 M4	.281 7.14	.270 6.86	.696 17.68	.991 25.17	.290 7.37		.170 4.32	–	52464-1
		10	.343 8.71	.283 7.19	.709 18.01	1.017 25.83	.303 7.70		.170 4.32	52465	–

Note: “C” dimension applies from edge of metal wire barrel to centre of stud hole.

Multiple Stud Terminals

Material and Finish

Insulation:

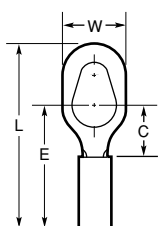
Vinyl acc. UL 94 V-0

Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose- Piece	Tape Mounted
22-16 (0.26-1.65)	.033 0.84	6-8-10	.325 8.26	.271 6.88	.691 17.55	.969 24.61		.125 3.18	54774-1	54774-2

Note: “C” dimension applies from edge of metal wire barrel to centre of stud hole.

Butt Splices

Material and Finish

Insulation:

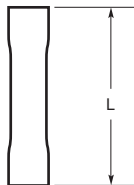
Vinyl acc. UL 94 V-0

Terminal Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545



Wire Size AWG (mm ²)	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				Loose- Piece	Tape Mounted
26–22 (0.10–0.41)	.620 15.75		.080 2.03	321026*	–
	1.065 27.05		.120 3.05	–	2-34067-1
22–16 (0.26–1.65)	1.065 27.05		.170 4.32	34243	–
	1.076 27.33		.120 3.05	324138	–
	1.076 27.33		.140 3.56	34070	–
	1.076 27.33		.140 3.56	55792-1	–
	1.065 27.05		.083 x .171 2.11 x 4.34	342033	–
	1.065 27.05		.140 3.56	34068	–
16–14 (1.04–2.62)	1.065 27.05		.140 3.56	328427	–
	1.065 27.05		.170 4.32	34071	2-34071-1
	1.065 27.05		.170 4.32	55785-1	55785-2
	1.065 27.05		.215 5.46	35244	–
	1.105 28.07		.170 4.32	–	2-34071-3
	1.065 27.05		.135 x .245 3.43 x 6.22	342043	–
12–10 (2.62–6.64)	1.160 29.46		.200 5.08	34069	–
	1.160 29.46		.230 5.84	34072	2-34072-2
	1.160 29.46		.250 6.35	34945	–
	1.200 30.48		.250 6.35	–	2-34945-2

*) Not UL or CSA Approved or Listed.

Parallel Splices

Material and Finish

Insulation:

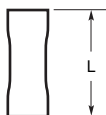
Vinyl acc. UL 94 V-0

Splice Body:

Copper per ASTM B-152

Plating:

Tin per ASTM B-545



Wire Size AWG (mm ²)	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Part Number
22–16 (0.26–1.65)	.760 19.30		.120 3.05	34131
16–14 (1.04–2.62)	.760 19.30		.170 4.32	34134
12–10 (2.62–6.64)	.843 21.41		.200 5.08	34135
	.870 22.10		.230 5.84	34136

SHUR-PLUG 3.96 mm Ø (.156)

Material and Finish

Insulation:

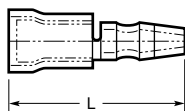
Vinyl acc. UL 94 V-0

Splice Body:

Copper per ASTM B-152

Plating:

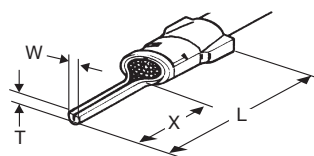
Tin per ASTM B-545



Wire Size AWG (mm ²)	Tongue Material Thickness Max.	Dimension L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Number
16–14 (1.04–2.62)	.033 0.84	.800 20.32		.170 4.32	344227*

*) Not UL or CSA approved or listed.

Pre-Insulated Wire Pins



Wire Size AWG (mm ²)	Dimensions				Splice Insulation Color	Insulation Diameter Max.	Part Number
	X	W	T	L			
.010–.063 (0.25–1.6)	.264 6.7	.071 1.8	.071 1.8	.807 20.5		.146 3.7	165143
.010–.063 (0.25–1.6)	.390 9.9	.071 1.8	.071 1.8	.937 23.8		.146 3.7	165167
.039–.102 (1.0–2.6)	.264 6.7	.071 1.8	.071 1.8	.815 20.7		.193 4.9	9-165175-0
.039–.102 (1.0–2.6)	.390 9.9	.071 1.8	.071 1.8	.933 23.7		.193 4.9	9-165171-0
.106–.260 (2.7–6.6)	.390 9.9	.102 2.6	.102 2.6	1.150 29.2		.252 6.4	165085
.260–.413 (6.6–10.5)	.709 18.0	.102 2.6	.102 2.6	1.445 36.7		.260 6.6	790368-1
.260–.657 (6.6–16.7)	.709 18.0	.169 4.3	.181 4.6	1.543 39.2		.315 8.0	736066
.661–1.047 (16.8–26.6)	.787 20.0	.197 5.0	.197 5.0	1.724 43.8		.382 9.7	736067
1.051–1.669 (26.7–42.4)	.866 22.0	.197 5.0	.197 5.0	2.067 52.5		.472 12.0	736068

Application Tooling

Hand Tooling for PLASTI-GRIP Terminals and Butt Splices

Tool Grade	Wire Size		Description	Part Number	Instruction Sheet
	(mm ²)	(AWG)			
Service	0.4–6.0	22–10	SUPER CHAMP II	169060-8	–
	0.1–0.4	26–22	Die-Set – Service Kit Tool	3-1579016-1*	–
	4.0–6.0	12–10			
	0.5–1.5	22–16	Die-Set – Service Kit Tool	3-1579016-2*	–
	1.5–2.5	16–14			
Commercial	0.4–6.0	22–10	SDE PRO-CRIMPER III (Tool & Die-Set)	58433-3	408-9252
Premium	0.15–0.40	26–22	Double Action Hand Tool (DAHT)	46121	408-1559
	0.4–1.5	22–16		47386	408-1559
	1.5–2.5	16–14		47387	408-1559
	0.4–6.0	22–10	TETRA-CRIMP Hand Tool	59824-1	408-2823
	4.0–6.0	12–10 16–14 HD	Heavy Head Hand Tool (HHHT)	59239-4 59287-2	408-1261

*) Use in Hand Tool, Part No. **3-1579000-0**.

Hand Tooling for PLASTI-GRIP Parallel Splices

Tool Grade	Wire Size		Description	Part Number	Instruction Sheet
	(mm ²)	(AWG)			
Premium	0.4–1.5	22–16	Double Action Hand Tool (DAHT)	45449	408-1548
	1.5–2.5	16–14	Double Action Hand Tool (DAHT)	45450	408-1548
	0.4–6.0	22–10	Heavy Head Hand Tool (HHHT)	59270	408-1256

Find the latest tooling and equipment options and alternatives including powered at
<http://www.tooling.tycoelectronics.com/europe/handtool.stm>

Cross Reference for Small Packaging

Standard Package	Description	Small Pack Order Number	Primary Package Quantity	Minimum Order Quantity
160214	PLASTI-GRIP SHUR PLUG	2-1377174-7	50	1,000
34071	PLASTI-GRIP BUTT SPLICE	5-1377173-3	100	2,000
321026	PLASTI-GRIP BUTT SPLICE	5-1377173-1	100	2,000
34072	PLASTI-GRIP BUTT SPLICE	5-1377173-4	50	1,000
34070	PLASTI-GRIP BUTT SPLICE	5-1377173-2	100	2,000
131444	PLASTI-GRIP WIRE PIN ASSY	4-1377173-8	100	2,000
131443	PLASTI-GRIP WIRE PIN ASSY	4-1377173-3	100	2,000
131445	PLASTI-GRIP WIRE PIN ASSY	5-1377173-0	50	1,000
165075	PLASTI-GRIP WIRE PIN	4-1377173-5	100	2,000
9-165075-0	PLASTI-GRIP WIRE PIN	4-1377173-4	100	2,000
165143	PLASTI-GRIP WIRE PIN	4-1377173-1	100	2,000
165171	PLASTI-GRIP WIRE PIN	4-1377173-7	100	2,000
9-165171-0	PLASTI-GRIP WIRE PIN	4-1377173-6	100	2,000
165085	PLASTI-GRIP WIRE PIN	4-1377173-9	100	2,000
165167	PLASTI-GRIP WIRE PIN	4-1377173-2	100	2,000
34132	PLASTI-GRIP PARALLEL SPLICE	5-1377173-5	100	2,000
34134	PLASTI-GRIP PARALLEL SPLICE	5-1377173-6	50	1,000
34136	PLASTI-GRIP PARALLEL SPLICE	5-1377173-7	50	1,000
160136	PLASTI-GRIP RING TONGUE	5-1377175-6	100	2,000
160124	PLASTI-GRIP RING TONGUE	1-1377173-3	50	1,000
34140	PLASTI-GRIP RING TONGUE	9-1377172-2	100	2,000
34157	PLASTI-GRIP RING TONGUE	1377173-2	100	2,000
34141	PLASTI-GRIP RING TONGUE	9-1377172-3	100	2,000
34142	PLASTI-GRIP RING TONGUE	9-1377172-4	100	2,000
34158	PLASTI-GRIP RING TONGUE	1377173-3	100	2,000
34160	PLASTI-GRIP RING TONGUE	1377173-4	100	2,000
34853	PLASTI-GRIP RING TONGUE	1377173-9	50	1,000
34145	PLASTI-GRIP RING TONGUE	9-1377172-5	100	2,000
34148	PLASTI-GRIP RING TONGUE	9-1377172-6	100	2,000
130102	PLASTI-GRIP RING TONGUE	1377173-5	100	2,000
160292	PLASTI-GRIP RING TONGUE	1-1377173-0	50	1,000
130014	PLASTI-GRIP RING TONGUE	9-1377172-7	100	2,000
34162	PLASTI-GRIP RING TONGUE	1377173-6	100	2,000
130126	PLASTI-GRIP RING TONGUE	1377173-7	100	2,000

Cross Reference for Small Packaging (continued)

Standard Package	Description	Small Pack Order Number	Primary Package Quantity	Minimum Order Quantity
160294	PLASTI-GRIP RING TONGUE	1-1377173-1	50	1,000
165035	PLASTI-GRIP RING TONGUE	5-1377175-4	50	1,000
34150	PLASTI-GRIP RING TONGUE	9-1377172-9	100	2,000
130054	PLASTI-GRIP RING TONGUE	9-1377172-8	100	2,000
34163	PLASTI-GRIP RING TONGUE	1377173-8	100	2,000
160296	PLASTI-GRIP RING TONGUE	1-1377173-2	50	1,000
34151	PLASTI-GRIP RING TONGUE	1377173-1	100	2,000
324165	PLASTI-GRIP SPADE FLAG	3-1377173-3	100	2,000
322249	PLASTI-GRIP SPADE FLAG	2-1377173-1	100	2,000
160212	PLASTI-GRIP SPADE FLAG	3-1377173-4	100	2,000
324172	PLASTI-GRIP SPADE FLAG	3-1377173-9	50	1,000
324169	PLASTI-GRIP SPADE FLAG	2-1377173-2	100	2,000
160213	PLASTI-GRIP SPADE FLAG	3-1377173-5	100	2,000
165134	PLASTI-GRIP SPADE FLAG	4-1377173-0	50	1,000
328516	PLASTI-GRIP SPADE FLAG	2-1377173-3	100	2,000
165010	PLASTI-GRIP SPADE	2-1377173-4	100	2,000
165004	PLASTI-GRIP SPADE	1-1377173-4	100	2,000
34165	PLASTI-GRIP SPADE	2-1377173-7	100	2,000
106730	PLASTI-GRIP SPADE	2-1377173-5	100	2,000
322994	PLASTI-GRIP SPADE	2-1377173-6	100	2,000
34154	PLASTI-GRIP SPADE	1-1377173-7	100	2,000
320665	PLASTI-GRIP SPADE	1-1377173-6	100	2,000
327043	PLASTI-GRIP SPADE	1-1377173-5	100	2,000
34166	PLASTI-GRIP SPADE	3-1377173-0	100	2,000
165012	PLASTI-GRIP SPADE	2-1377173-8	100	2,000
326741	PLASTI-GRIP SPADE	2-1377173-9	100	2,000
165015	PLASTI-GRIP SPADE	3-1377173-6	50	1,000
34155	PLASTI-GRIP SPADE	1-1377173-8	100	2,000
165008	PLASTI-GRIP SPADE	1-1377173-9	100	2,000
160171	PLASTI-GRIP SPADE	3-1377173-1	100	2,000
165017	PLASTI-GRIP SPADE	3-1377173-7	50	1,000
34156	PLASTI-GRIP SPADE	2-1377173-0	100	2,000
130568	PLASTI-GRIP SPADE	3-1377173-2	100	2,000
165019	PLASTI-GRIP SPADE	3-1377173-8	50	1,000