

Locking Clip Contacts

Wire Crimp Contacts with Insulation Support

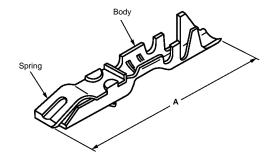
Material and Finish:

Contact Spring—Stainless steel

Plating A—Selectively plated .000050 [0.00127] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating B—Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating C—.000100-.000200 [0.00254-0.00508] bright tin-lead over .000050 [0.00127] nickel on entire contact



Wire Size		Ins.	D ¹		Part	Nos.	Heavy Duty Miniature Applicator for	Hand
AWG	lange [mm²]	Dis. Range	Dimension A	Finish	Strip Form	Loose Piece	AMP-O-LECTRIC Machine*	Tool No.
30-28	0.05-0.09	.029039 [0.74-0.99]	.550 [13.97]	Plating B	87190-1	87191-1	567310-2	90295-1
30-20	0.05-0.09	.029039 [0.74-0.99]	.550 [13.97]	Plating C	87190-2	87191-2	507510-2	
				Plating A	87124-3	87165-3		
26-22	0.12-0.4	.038062 [0.97-1.57]	.584 [14.83]	Plating B	87124-1	87165-1	466721-2	91533-
				Plating C	87124-2	87165-2		
20	0.5-0.6	.038062 [0.97-1.57]	.584 [14.83]	Plating B	867052-2	_	679996-2	90431-
20	0.5-0.0	.000002 [0.97-1.97]		Plating C	867052-1	_	073330-2	90431-1

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATORlead making machines. Notes: 1. These contacts must be crimped in accordance with Tyco ElectronicsSpecification No. 114-25006 in order to function properly in a connector housing.

2. Extraction Tool No. 91084-1 is used for removing individual contacts from connector housings and for detaching contacts from mating posts.

Related Product Data:

Housings Used Withpages 225, 226 Application Toolingpage 290

Technical Documents (page 295, 296):

Product Specification 108-36028, 108-36028-1

Application Specification 114-25006



Extraction Tool No. 91084-1

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Catalog 1307819 Revised 6-04

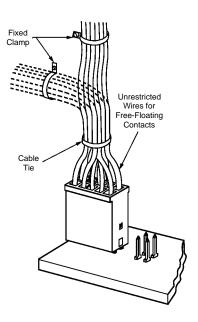
millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Wire Harnessing

If necessary, wires can be grouped with cable ties and secured to a panel with fixed clamps. However, locking clip contacts must be free to float within the connector housings to allow proper extraction. Therefore, harnessing hardware or the use of multiple terminations per contact must not restrict the free-floating action of contacts in the housing.

For more information request Insulation and **Bundling Products Catalog** 124132.



reference purposes only. Specifications subject to change.

Dimensions are shown for

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967





Wire-Applied Housings for Locking Clip Contacts, Single-Row, .100 [2.54] Centerline

Single-Row



Material: Glass-filled polyester, 94V-0 rated

Related Product Data:

Contacts—page 224

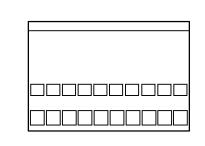
Mateable Headers and Posts— Refer to the Mating Post Selection Guide—page 89

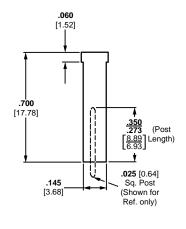
Technical Documents (pages 295, 296):

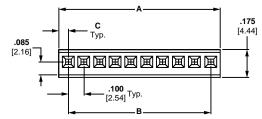
Product Specification 108-36028, 108-36028-1

Application Specification 114-25006

.125 [3.18] centerline single-row, 2 and 3 position housings are available, Base Part No. 104905. They are designed to be stackable end-to-end and side-by-side. Consult Tyco Electronics.







Note: Housing illustrated above is the "Both Ends Closed" version.

No. of		Dimensions		Housing	Part No.
Pos.	Α	В	С	Unstamped	Stamped
1	.108 [2.74]	_	.054 [1.37]	87175-2	_
2	.216 [5.49]	.100 [2.54]	.058 [1.47]	87175-6	—
3	.316 [8.03]	.200 [5.08]	.058 [1.47]	87175-8	_
4	.416 [10.57]	.300 [7.62]	.058 [1.47]	1-87175-0	—
5	.516 [13.11]	.400 [10.16]	.058 [1.47]	1-87175-2	—
6	.616 [15.65]	.500 [12.70]	.058 [1.47]	1-87175-4	1-87175-3
7	.716 [18.19]	.600 [15.24]	.058 [1.47]	1-87175-6	1-87175-5
8	.816 [20.73]	.700 [17.78]	.058 [1.47]	1-87175-8	1-87175-7
9	.916 [23.27]	.800 [20.32]	.058 [1.47]	2-87175-0	1-87175-9
10	1.016 [25.81]	.900 [22.86]	.058 [1.47]	2-87175-2	2-87175-1
11	1.116 [28.35]	1.000 [25.40]	.058 [1.47]	2-87175-4	2-87175-3
12	1.216 [30.89]	1.100 [27.94]	.058 [1.47]	2-87175-6	2-87175-5
13	1.316 [33.43]	1.200 [30.48]	.058 [1.47]	2-87175-8	2-87175-7
14	1.416 [35.97]	1.300 [33.02]	.058 [1.47]	3-87175-0	2-87175-9
15	1.516 [38.51]	1.400 [35.56]	.058 [1.47]	87175-4	87175-3

Locking Clip Contacts and Housi

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Part No. 87179-1 (Plugs directly into housings for .025 [0.64] square post contacts)

Material-Yellow, nylon

Catalog 1307819 Revised 6-04

Keying Plug:

Revised 6-04 millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967





Wire-Applied Housings for Locking Clip Contacts, Double-Row, .100 x .100 [2.54 x 2.54] Centerline

Double-Row



Material: Glass-filled polyester, 94V-0 rated

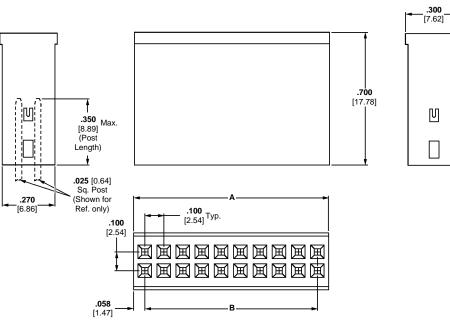
Related Product Data:

Contacts—page 224 Mateable Headers and Posts— Refer to the Mating Post Selection Guide—page 89

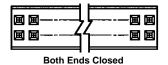
Technical Documents (pages 296, 297):

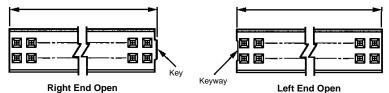
Product Specification 108-36028, 108-36028-1

Application Specification 114-25006



Note: Housing illustrated above is the "Both Ends Closed" version.





Housing Dimensions Housing Part No. No. of Configuration Unstamped Pos. Α в Stamped 2 .116 [2.95] 87176-2 4 .216 [5.49] .100 [2.54] 87133-1 87133-8 .316 [8.03] .200 [5.08] 87133-7 6 .416 [10.57] .300 [7.62] 87133-9 1-87133-0 8 .400 [10.16] 87133-5 Both Ends Closed 10 .516 [13.11] 87133-2 12 .616 [15.65] .500 [12.70] 1-87133-1 1-87133-2 16 .816 [20.73] .700 [17.78] 1-87133-3 1-87133-4 18 .916 [23.27] .800 [20.32] 1-87133-5 1-87133-6 20 1.016 [25.81] .900 [22.86] 87133-3 87133-6 4 .216 [5.49] .100 [2.54] 87132-1 Right End Open 10 .516 [13.11] .400 [10.16] 87132-2 87132-5 .900 [22.86] 87132-6 20 1.016 [25.81] 87132-3 4 .216 [5.49] **.100** [2.54] 87131-1 Left End Open 10 .516 [13.11] .400 [10.16] 87131-2 87131-5 20 1.016 [25.81] .900 [22.86] 87131-3 87131-6

Keying Plug:



Part No. 87179-1 (Plugs directly into housings for .025 [0.64] square post contacts)

Material—Yellow, nylon

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Catalog 1307819 Revised 6-04

Revised 6-04 millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

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Locking Clip Contacts and Hous

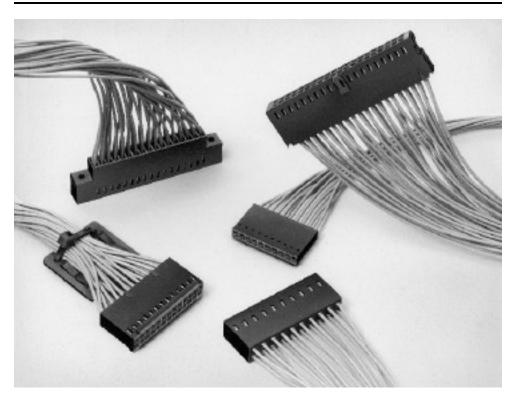


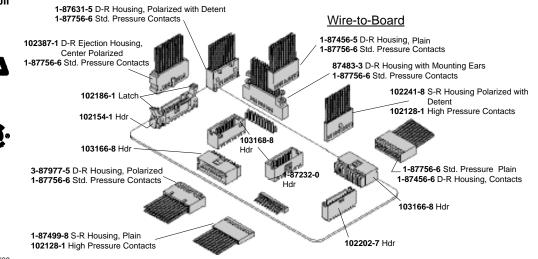


Product Facts

- Terminates 32-20 AWG [0.03-0.6mm²] discrete wire
- Contacts have insulation support
- Choice of three contact mating pressures
- Available in a variety of gold and tin platings
- Receptacles mate with .025 [0.64] square or round posts
- Dual cantilever contact beam with built-in antioverstress feature for reliable matings
- Housings accept a variety of receptacle and pin contacts
- Housing sizes range up to 100 positions
- Housing configurations include single- and doublerows on .100 [2.54] centerlines
- Housing options include detent latching, polarization and bonded strain relief/ pull tabs
- Recognized under the Component Program (Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association,

Mod IV Wire-Applied Contacts and Housings





Performance Characteristics

Contact Current Rating—3 amperes Termination Resistance: 12 milliohms (max.)—Beryllium copper contacts 20 milliohms (max.)—Copper-tin-

phosphor bronze contacts **Durability**—Ref. AMP Product Specification 108-25020

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Catalog 1307819 Revised 6-04

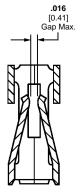
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Crimp Snap-In (No-strip) **Receptacles and Crimp Snap-In Pins with Insulation Support** (Standard Pressure)



Standard Pressure Configuration

Material and Finish:

Beryllium copper or phosphor bronze (see charts), plated as follows:

Plating A—Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating B—Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating C—.000100-.000200 [0.00254-0.00508] bright tin-lead over .000030 [0.00076] nickel on entire contact

Related Product Data:

Housings Used Withpages 231-237 Performance Characteristics page 227 Application Tooling page 290

Technical Documents (pages 294, 296):

Product Specification 108-25007, 208-25019, 108-25020, 108-25021 Application Specification 114-25003, 114-25016

Additional header sizes are available; minimum order quantities may apply. Consult Tyco Electronics.

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Mod IV Contacts

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

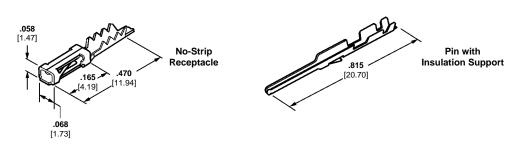
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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

Mod IV Pin and Receptacle Contacts



Crimp Snap-In (No-strip) Receptacles

Ins. Dia.	Finish	Part	Nos.	Heavy Duty Miniature Applicator No.	Hand Tool	
Range	FINISN	Strip Form	Loose Piece	for AMP-O-LECTRIC Machine*	Part No.	
'040055 [1.02-1.40]	Plating A	87107-5	102348-2	567307-2	90381-1	
040033 [1.02-1.40]	Plating C	87107-6	102348-3	307307-2	30301-1	

Crimp Snap-In Pins with Insulation Support

S	/ire ize	Ins. Dia.	F inish	Part Nos. Applicator No.		Part Nos. Applicator No. To		ind ool
Ra AWG	inge [mm²]	(Max.)	Finish	Strip Form	Loose Piece	for AMP-O-LECTRIC Machine*	<u>Pari</u> Premium	t No. Commercial
	[11111-]		Plating A	102095-3	102107-2		Treinium	Commercial
26-22	0.12-0.4	.061 [1.55]	Plating B	102095-2	102107-1	466812-2	91517-1	58641-1 [†]
			Plating C	102095-4	102107-3			

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATORlead making machines. [†]PRO-CRIMPER II hand tool frame with die set assembly

Die Set Part No. 58641-2





Mod IV Receptacle Contacts

.058

[1.47]

.068

[1.73]



Material and Finish:

Beryllium copper, phosphor bronze or copper-tin-phosphor bronze (see charts, page 139), plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead on crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating D—Selectively plated .000050 [0.00127] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating E—Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating F—Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating G.—.000100-.000200 [0.00254-0.00508] bright tin-lead over .000030 [0.00076] nickel on entire contact

Related Product Data:

Housings Used With pages 231-237

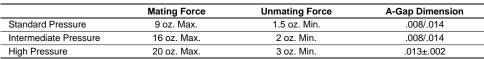
Performance Characteristics page 227

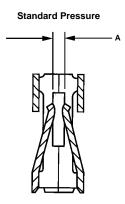
Application Tooling page 290

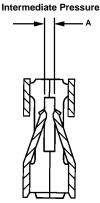
Technical Documents (pages 294, 296):

Product Specification 108-25007, 208-25019, 108-25020, 108-25021

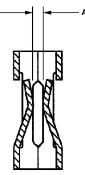
Application Specification 114-25003, 114-25016







High Pressure



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specified. Values in brackets www.tycoelectronics.com are metric equivalents.

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Mod IV Receptacle Contacts (Continued)

Standard Pressure (Mod IV)

Wire Size	Ins. Dia.	Dimension	Material	Finish		Nos.	Heavy Duty Miniature Applicator for	e Applicator for Stripper/ Crimper	Hand Tool Part Nos.	
Range AWG [mm ²]	(Max.)	A			Strip Form	Loose Piece	AMP-O-LECTRIC Machine*	Crimper Machine	Premium	Commercial
- 1 1			Cu-Sn-PhBz	Plating A	102316-8	1-102316-4	Ļ			
			Cu-Sn-Ph Bz	Plating B	102316-6	1-102316-3	3			_
00.07.0.00.04	040 [4 00]	445 [44 00]	Be Cu	Plating D	1-102917-1	1-102917-2	400055.0	400004 4	04544.4	
32-27 0.03-0.1	.040 [1.02]	.445 [11.30]	Be Cu	Plating E	102917-1	102917-2	466655-2	466921-1	91541-1	
			Be Cu	Plating F	102917-5	102917-6	5			
			Cu-Sn-PhBz	Plating G	102316-5	1-102316-2	2			
		.445 [11.30]	Cu-Sn-PhBz	Plating A	1-87756-7	1-87756-8	<u>5-6</u> 5-7			58641-1†
			Cu-Sn-Ph Bz	Plating B	1-87756-2	1-87756-6				
			Cu-Sn-Ph Br	Plating G	87756-6	87756-7		466918-1	91517-1	
26-22 0.12-0.4	.061 [1.55]		Be Cu	Plating D	1-87666-6	87667-5				
			Be Cu	Plating E	87666-2	87667-2	2			
			Be Cu	Plating F	87666-5	87667-5	5			
			Be Cu	Plating G	87666-3	87667-3	3			
			Cu-Sn-PhBz	Plating A	1-87523-8	1-87523-9)			
			Cu-Sn-Ph Bz	Plating B	1-87523-5	1-87523-6	5			
24.20 0.206	000 [4 75]	470 [44 04]	Be Cu	Plating E	85969-8	86016-2	466560.0	466005 4	01516.0	_
24-20 0.2-0.6	.069 [1.75]	.470 [11.94]	Be Cu	Plating F	85969-6	86016-5	466562-2	466905-1	91516-2	
			Cu-Sn-Ph Br	Plating G	87523-5	87523-6	6			
			Be Cu	Plating G	85969-9	86016-3	3			

Intermediate Pressure (Mod IV.v)

Wire Size Range	Ins. Dia.	Dimension	Material	Finish	Part Strip Form	Nos.	Heavy Duty Miniature Applicator for AMP-O-LECTRIC	Applicator for Stripper/ Crimper	Hand Tool Part Nos.	
AWG [mm ²]	(Max.)	А			Strip Form	Loose Piece	Machine*	Machine	Premium	Commercial
32-27 0.03-0.1	040 [4 02]	AAE [11 20]	Cu-Sn-Ph Bz	Plating A	102920-1	102920-2	466655-2	466921-1	91541-1	
32-27 0.03-0.1	.040 [1.02]	.445 [11.30]	Be Cu	Plating E	102918-1	102918-2	400000-2		91541-1	—
			Cu-Sn-PhBz	Plating A	103171-4	103171-5	466571-2			
26-22 0.12-0.4	004 [4 55]	AAE [44 00]	Cu-Sn-Ph Bz	Plating B	103171-1	103171-2		466918-1	91517-1	58641-1†
20-22 0.12-0.4	.061 [1.55]	.445 [11.30]	Be Cu	Plating E	102548-5	102548-6				
			Be Cu	Plating F	102548-1	102548-3				
			Cu-Sn-PhBz	Plating A	2-87195-0	2-87195-1				
			Cu-Sn-Ph Bz	Plating B	1-87195-7	1-87195-8				_
24-20 0.2-0.6	.069 [1.75]	.470 [11.94]	Be Cu	Plating E	86492-6	87046-3	466562-2	466905-1	91516-1	
			Be Cu	Plating F	86492-2	87046-1	•			
			Be Cu	Plating G	86492-9	87046-4				

High Pressure (Mod V)**

S	Vire Size ange	lns. Dia	Dimension	Material	Finish	Part Nos.		Heavy Duty Miniature Applicator for AMP-O-LECTRIC	Applicator for AMP-O-MATIC Stripper/Crimper	Hand Tool Part Nos.	
AWG	[mm ²]	(Max.)	A			Strip Form	Loose Piece	Machine*	Machine	Fall NUS.	
32-27	0.03-0.1	.040 [1.02]	.445 [11.30]	Ph Bz	Plating E	103455-1	103455-2	466655-2	466921-1	91541-1	
00.00	0 4 0 0 4	004 [4 55]	AAE [44.00]	Ph Bz	Plating E	87809-1	102128-1	466571-2	1000101	04547.4	
26-22	0.12-0.4	.061 [1.55]	.445 [11.30]	Ph Bz	Plating G	87809-2	102128-2	400571-2	466918-1	91517-1	
24-20	0.2-0.6	.069 [1.75]	.470 [11.94]	Ph Bz	Plating E	87309-9	1-87309-4	466562-2	100005 1	91516-1	
24-20	0.2-0.6	.009 [1.75]	.470 [11.94]	Ph Bz	Plating G	87309-8	1-87309-3	400002-2	466905-1	91210-1	

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATORlead making machines. **Contact material is phosphor bronze.

[†]PRO-CRIMPER II hand tool frame with die set assembly.

Die Set Part No. 58641-2

Mod IV Contacts

Catalog 1307819 Revised 6-04 www.tycoelectronics.com

millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

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Non-Polarized

Material:

Α

.105 [2.67]

.205 [5.21]

.305 [7.75]

.405 [10.29]

.505 [12.83]

.605 [15.37]

.705 [17.91]

.805 [20.45]

.905 [22.99]

1.005 [25.53]

1.105 [28.01]

1.205 [30.61]

1.305 [33.15]

1.405 [35.69]

1.505 [38.23]

1.605 [40.77]

1.700 [43.18]

1.805 [45.85]

1.900 [48.26]

2.005 [50.93]

2.100 [53.34]

2.205 [56.01]

2.300 [58.42]

2.400 [60.96]

2.500 [63.50]

2.605 [66.17]

2.700 [68.58]

2.800 [71.12]

2.900 [73.66]

3.005 [76.33]

3.100 [78.74]

3.200 [81.28]

3.300 [83.82]

3.400 [86.36]

3.500 [88.98]

3.600 [91.44]



Part No.

Unstamped**

7-87499-2

87499-4

87499-6

87499-8

1-87499-0

1-87499-2

1-87499-4

1-87499-6

1-87499-8

2-87499-0

2-87499-2

2-87499-4

2-87499-6

2-87499-8

3-87499-0

3-87499-2

3-87499-4

3-87499-6

3-87499-8

4-87499-0

4-87499-2

4-87499-4

4-87499-6

4-87499-8

5-87499-0

5-87499-2

5-87499-4

5-87499-6

5-87499-8

6-87499-0

6-87499-2

6-87499-4

6-87499-6

6-87499-8

7-87499-0

Stamped*

87499-3

87499-5

87499-7

87499-9

1-87499-1

87499-1

1-87499-3

1-87499-5

1-87499-7

1-87499-9

2-87499-1

2-87499-3

2-87499-5

2-87499-7

2-87499-9

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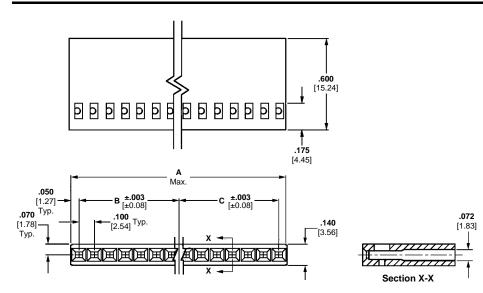
3-87499-7

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Mod IV Wire-Applied Housings, Single-Row, .100 [2.54] Centerline



С

.100 [2.54]

.100 [2.54]

.200 [5.08]

.200 [5.08]

.300 [7.62]

.300 [7.62]

.400 [10.16]

.400 [10.16]

.500 [12.70]

.500 [12.70]

.600 [15.24]

.600 [15.24]

.700 [17.78]

.700 [17.78]

.800 [20.32]

.800 [20.32]

.900 [22.86]

.900 [22.86]

1.000 [25.40]

1.000 [25.40]

1.100 [27.94]

1.100 [27.94]

1.200 [30.48]

1.200 [30.48]

1.300 [33.02]

1.300 [33.02]

1.400 [35.56]

1.400 [35.56]

1.500 [38.10]

1.500 [38.10]

1.600 [40.64]

1.600 [40.64]

1.700 [43.18]

1.700 [43.18]

Dimensions

в

.100 [2.54]

.100 [2.54]

.200 [5.08]

.200 [5.08]

.300 [7.62]

.300 [7.62]

.400 [10.16]

.400 [10.16]

.500 [12.70]

.500 [12.70]

.600 [15.24]

.600 [15.24]

.700 [17.78]

.700 [17.78]

.800 [20.32]

.800 [20.32]

.900 [22.86]

.900 [22.86]

1.000 [25.40]

1.000 [25.40]

1.100 [27.94]

1.100 [27.94]

1.200 [30.48]

1.200 [30.48]

1.300 [33.02]

1.300 [33.02]

1.400 [35.56]

1.400 [35.56]

1.500 [38.10]

1.500 [38.10]

1.600 [40.64]

1.600 [40.64]

1.700 [43.18]

1.700 [43.18]

1.800 [45.72]

Mateable Headers and Posts pages 92-94, 100-104, 110-112

Black thermoplastic, flame retardant

Related Product Data:

Contacts-pages 228-230

Technical Documents (page 294-296):

Product Specification 108-25007, 208-25019, 108-25020, 108-25021

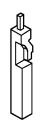
Application Specification 114-25003, 114-25016

Keying Plugs



Part No. 86286-1 (Plugs into standard or intermediate pressure receptacle contact)

Material—Natural color nylon



Part No. 87077-2 (Plugs directly into housing) *Cavity identification, part number and date code stamped on housing where size permits **No marking on housing.

Notes: 1. Strain reliefs are available and may be purchased separately. Consult Tyco Electronics. 2. Contact Extraction/Lance Reset Tool No. 843996-3.

Catalog 1307819 Revised 6-04

www.tycoelectronics.com are metric ec

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

No. of

Pos.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

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23

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34

35

36

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



231



Recessed Area



Electronics

Polarized (with Detent Latching)



Material:

Black thermoplastic, flame retardant

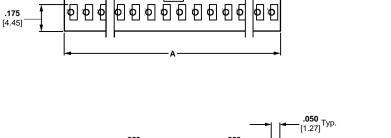
Related Product Data:

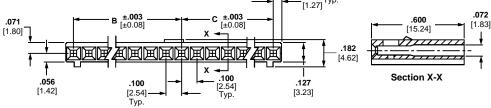
Contacts-pages 228-230 Mateable Headers and Posts-

pages 129-131 Flexible Film Connectors,

Single-Row Pin Assemblies-Catalog 82007

Technical Documents: (page 296):





Mod IV Wire-Applied Housings, Single-Row, .100 [2.54] Centerline (Continued)

6):	No. of		Dimensions					
,	Pos.	Α	В	С	Unstamped*			
oduct Specification 108-25007,	3	.300 [7.62]	.100 [2.54]	.100 [2.54]	102241-1			
-25019, 108-25020, 108-25021	4	.400 [10.16]	.200 [5.08]	.100 [2.54]	102241-2			
plication Specification	5	.500 [12.70]	.200 [5.08]	.200 [5.08]	102241-3			
-25003, 114-25016 -	6	.600 [15.24]	.300 [7.62]	.200 [5.08]	102241-4			
-	7	.700 [17.78]	.300 [7.62]	.300 [7.62]	102241-5			
-	8	.800 [20.32]	.400 [10.16]	.300 [7.62]	102241-6			
-	9	.900 [22.86]	.400 [10.16]	.400 [10.16]	102241-7			
-	10	1.000 [25.40]	.500 [12.70]	.400 [10.16]	102241-8			
-	11	1.100 [27.94]	.500 [12.70]	.500 [12.70]	102241-9			
-	12	1.200 [30.48]	.600 [15.24]	.500 [12.70]	1-102241-0			
-	13	1.300 [33.02]	.600 [15.24]	.600 [15.24]	1-102241-1			
-	14	1.400 [35.56]	.700 [17.78]	.600 [15.24]	1-102241-2			
ying Plugs	15	1.500 [38.10]	.700 [17.78]	.700 [17.78]	1-102241-3			
,	16	1.600 [40.64]	.800 [20.32]	.700 [17.78]	1-102241-4			
\sim	17	1.700 [43.18]	.800 [20.32]	.800 [20.32]	1-102241-5			
	18	1.800 [45.72]	.900 [22.86]	.800 [20.32]	1-102241-6			
- 10	19	1.900 [48.26]	.900 [22.86]	.900 [22.86]	1-102241-7			
] -	20	2.000 [50.80]	1.000 [25.40]	.900 [22.86]	1-102241-8			
₩ -	21	2.100 [53.34]	1.000 [25.40]	1.000 [25.40]	1-102241-9			
-	22	2.200 [55.88]	1.100 [27.94]	1.000 [25.40]	2-102241-0			
Part No. 86286-1 - lugs into standard or intermediate	23	2.300 [58.42]	1.100 [27.94]	1.100 [27.94]	2-102241-1			
pressure receptacle contact)	24	2.400 [60.96]	1.200 [30.48]	1.100 [27.94]	2-102241-2			
	25	2.500 [63.50]	1.200 [30.48]	1.200 [30.48]	2-102241-3			
terial—Natural color nylon	26	2.600 [66.04]	1.300 [33.02]	1.200 [30.48]	2-102241-4			
-	27	2.700 [68.58]	1.300 [33.02]	1.300 [33.02]	2-102241-5			
л́л -	28	2.800 [71.12]	1.400 [35.56]	1.300 [33.02]	2-102241-6			
	29	2.900 [73.66]	1.400 [35.56]	1.400 [35.56]	2-102241-7			
15	30	3.000 [76.20]	1.500 [38.10]	1.400 [35.56]	2-102241-8			
	31	3.100 [78.74]	1.500 [38.10]	1.500 [38.10]	2-102241-9			
Y -	32	3.200 [81.28]	1.600 [40.64]	1.500 [38.10]	3-102241-0			
	33	3.300 [83.82]	1.600 [40.64]	1.600 [40.64]	3-102241-1			
	34	3.400 [86.36]	1.700 [43.18]	1.600 [40.64]	3-102242-2			
\vee	35	3.500 [88.90]	1.700 [43.18]	1.700 [43.18]	3-102241-3			
	36	3.600 [91.44]	1.800 [45.72]	1.700 [43.18]	3-102241-4			

232

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



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Optional

.072

[1.83]

Section X-X

Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline

MMMMMM

MMMMMM

.100 Тур

.240

[6.10]

.070

[1.78]

.100 [2.54]

[2.54]





.175 [4.45]

.050

[1.27]

Тур.

Material: Black thermoplastic, flame retardant

Related Product Data:

Contacts—pages 228-230 Mateable Headers and Postspages 95-97, 105-109, 133-135

Technical Documents (pages 294, 296):

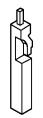
Product Specification 108-25007, 208-25019, 108-25020, 108-25021 Application Specification 114-25003, 114-25016

Keying Plugs



Part No. 86286-1 (Plugs into standard or intermediate pressure receptacle contact)

Material-Natural color nylon



Part No. 87077-1 (for .645 high housings) Part No. 87077-2 (for .600 high housings) (Plugs directly into housing)

			[1.7	0]	
No.				Part Nos.	0 0/5 //0 001
of Pos.		nsions	C = .60	C = .645 [16.38]	
	A	В	Stamped*	Unstamped**	Unstamped**
2	.100 [2.54]			5-87456-3	-
4	.200 [5.08]	.100 [2.54]	5-87456-0	4-87456-9	2-86177-5
6	.300 [7.62]	.200 [5.08]	87456-2	87456-1	1-86177-8
8	.400 [10.16]	.300 [7.62]	87456-4	87456-3	2-86177-0
10	.500 [12.70]	.400 [10.16]	87456-6	87456-5	1-86177-2
12	.600 [15.24]	.500 [12.70]	87456-8	87456-7	1-86177-3
14	.700 [17.78]	.600 [15.24]	1-87456-0	87456-9	1-86177-4
16	.800 [20.32]	.700 [17.78]	1-87456-2	1-87456-1	1-86177-5
18	.900 [22.86]	.800 [20.32]	1-87456-4	1-87456-3	1-86177-6
20	1.000 [25.40]	.900 [22.86]	1-87456-6	1-87456-5	86177-1
22	1.100 [27.94]	1.000 [25.40]	—	1-87456-7	86177-2
24	1.200 [30.48]	1.100 [27.94]	2-87456-0	1-87456-9	86177-3
26	1.300 [33.02]	1.200 [30.48]	2-87456-2	2-87456-1	86177-4
28	1.400 [35.56]	1.300 [33.02]	2-87456-4	2-87456-3	86177-5
30	1.500 [38.10]	1.400 [35.56]	2-87456-6	2-87456-5	86177-6
32	1.600 [40.64]	1.500 [38.10]	2-87456-8	2-87456-7	86177-7
34	1.700 [43.18]	1.600 [40.64]	3-87456-0	2-87456-9	86177-8
36	1.800 [45.72]	1.700 [43.18]	3-87456-2	3-87456-1	86177-9
38	1.900 [48.26]	1.800 [45.72]	_	3-87456-3	1-86177-0
40	2.000 [50.80]	1.900 [48.26]	3-87456-6	3-87456-5	1-86177-1
42	2.100 [53.34]	2.000 [50.80]	4-87456-4	4-87456-3	_
44	2.200 [55.88]	2.100 [53.34]	3-87456-8	3-87456-7	1-86177-7
48	2.400 [60.96]	2.300 [58.42]	6-87456-0	5-87456-9	2-86177-3
50	2.500 [63.50]	2.400 [60.96]	4-87456-0	3-87456-9	2-86177-1
52	2.600 [66.04]	2.500 [63.50]	4-87456-2	4-87456-1	1-86177-9
54	2.700 [68.58]	2.600 [66.04]	_	4-87456-5	_
56	2.800 [71.12]	2.700 [68.58]	_	6-87456-1	_
58	2.900 [73.66]	2.800 [71.12]		6-87456-3	
60	3.000 [76.20]	2.900 [73.66]	5-87456-2	5-87456-1	_
64	3.200 [81.28]	3.100 [78.74]	6-87456-6	6-87456-5	
66	3.300 [83.82]	3.200 [81.28]	5-87456-4	5-87456-7	
70	3.500 [83.82] 3.500 [88.90]	3.400 [86.36]	5-07450-4	5-87456-5	2-86177-4
70	3.600 [88.90]	3.500 [88.90]	4-87456-8	4-87456-7	2-00177-4
			de stamped on hous		

*Cavity identification, AMP, part number and date code stamped on housing where size permits. **No marking on housing.

Notes: 1.Strain reliefs are available and may be purchased separately. Consult Tyco Electronics. 2. Contact Extraction/Lance Reset Tool No. 843996-3.

Dimensions are shown for

reference purposes only.

Specifications subject

to change.

USA: 1-800-522-6752

Canada: 1-905-470-4425

Mexico: 01-800-733-8926

C. America: 52-55-5-729-0425

Catalog 1307819 Revised 6-04

millimeters unless otherwise

specified. Values in brackets are metric equivalents.

Dimensions are in inches and

www.tycoelectronics.com

Mod IV Wire-Applied Housings





Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)





Material: Black thermoplastic, flame retardant

Related Product Data:

Contacts—pages 228-230 Mateable Headers and Posts pages 133-148

Technical Documents (pages 294, 296):

Product Specification 108-25007, 208-25019, 108-25020, 108-25021 Application Specification

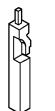
114-25003, 114-25016





Part No. 86286-1 (Plugs into standard or intermediate pressure receptacle contact)

Material—Natural color nylon



Part No. 87077-2 (Plugs directly into housing)

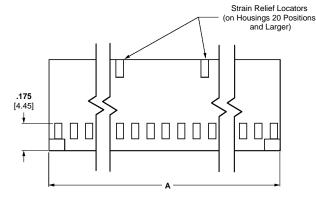
234

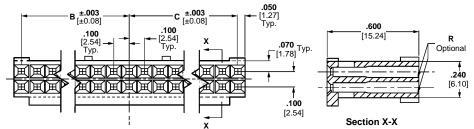
Mod IV Wire-Applied Housings

Catalog 1307819 Revised 6-04

Revised 6-04 millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and





No. of		Dimensions		Par	t Nos.
Pos.	Α	В	С	Stamped*	Unstamped*
6	.300 [7.62]	.100 [2.54]	.100 [2.54]	87977-1	2-87977-8
8	.400 [10.16]	.200 [5.08]	.100 [2.54]	87977-2	2-87977-9
10	.500 [12.70]	.200 [5.08]	.200 [5.08]	87977-3	3-87977-0
12	.600 [15.24]	.300 [7.62]	.200 [5.08]	87977-4	3-87977-1
14	.700 [17.78]	.300 [7.62]	.300 [7.62]	87977-5	3-87977-2
16	.800 [20.32]	.400 [10.16]	.300 [7.62]	87977-6	3-87977-3
18	.900 [22.86]	.400 [10.16]	.400 [10.16]	_	3-87977-4
20	1.000 [25.40]	.500 [12.70]	.400 [10.16]	87977-8	3-87977-5
22	1.100 [27.94]	.500 [12.70]	.500 [12.70]	_	3-87977-6
24	1.200 [30.48]	.600 [15.24]	.500 [12.70]	1-87977-0	3-87977-7
26	1.300 [33.02]	.600 [15.24]	.600 [15.24]	1-87977-1	3-87977-8
28	1.400 [35.56]	.700 [17.78]	.600 [15.24]	_	3-87977-9
30	1.500 [38.10]	.700 [17.78]	.700 [17.78]	_	4-87977-0
32	1.600 [40.64]	.800 [20.32]	.700 [17.78]	_	4-87977-1
34	1.700 [43.18]	.800 [20.32]	.800 [20.32]	_	4-87977-2
36	1.800 [45.72]	.900 [22.86]	.800 [20.32]	_	4-87977-3
38	1.900 [48.26]	.900 [22.86]	.900 [22.86]	_	4-87977-4
40	2.000 [50.80]	1.000 [25.40]	.900 [22.86]	1-87977-8	4-87977-5
42	2.100 [53.34]	1.000 [25.40]	1.000 [25.40]	_	4-87977-6
44	2.200 [55.88]	1.100 [27.94]	1.000 [25.40]	_	4-87977-7
48	2.400 [60.96]	1.200 [30.48]	1.100 [27.94]	_	5-87977-6
50	2.500 [63.50]	1.200 [30.48]	1.200 [30.48]	2-87977-1	4-87977-8
52	2.600 [66.04]	1.300 [33.02]	1.200 [30.48]	_	4-87977-9
54	2.700 [68.58]	1.300 [33.02]	1.300 [33.02]	_	5-87977-0
56	2.800 [71.12]	1.400 [35.56]	1.300 [33.02]	_	5-87977-8
58	2.900 [73.66]	1.400 [35.56]	1.400 [35.56]	_	6-87977-0
60	3.000 [76.20]	1.500 [38.10]	1.400 [35.56]	2-87977-4	5-87977-1
64	3.200 [81.28]	1.600 [40.64]	1.500 [38.10]	_	6-87977-2
66	3.300 [83.82]	1.600 [40.64]	1.600 [40.64]	_	5-87977-2
70	3.500 [88.90]	1.700 [43.18]	1.700 [43.18]	_	5-87977-3
72	3.600 [91.44]	1.800 [45.72]	1.700 [43.18]	_	5-87977-4

*Cavity identification, AMP, part number and date code stamped on housing where size permits.

**No marking on housing or strain relief.

Notes: 1. Strain reliefs are available and may be purchased separately. Consult Tyco Electronics. 2. Contact Extraction/Lance Reset Tool No. 843996-3.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



Polarized (with Detent

Strain Relief/Pull Tab)

Material:

296):

Related Product Data: Contacts—pages 228-230

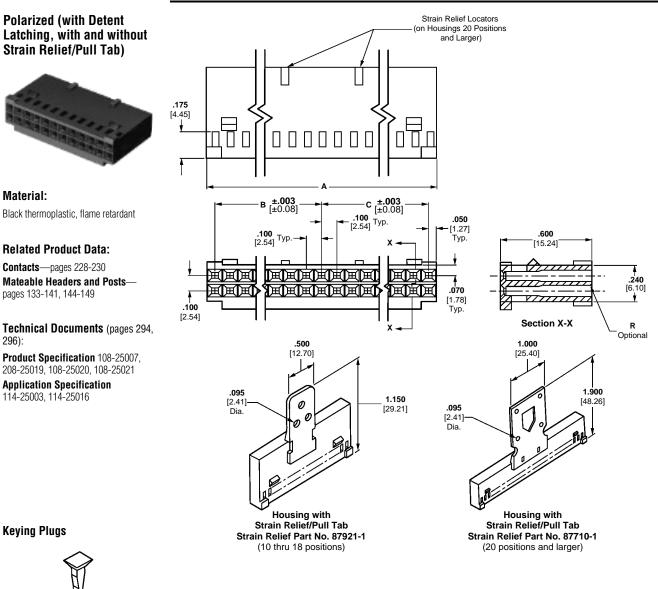
pages 133-141, 144-149

Application Specification

114-25003, 114-25016



Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

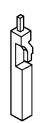


Keying Plugs



Part No. 86286-1 (Plugs into standard or intermediate pressure receptacle contact)

Material-Natural color nylon



Part Nos. Dimensions No. of No. of Without Strain Relief With Strain Relief Pos. Α в С Detents Unstamped** Stamped* Stamped* 6 .300 [7.62] .100 [2.54] .100 [2.54] 87631-2 87631-1 1 .400 [10.16] .200 [5.08] .100 [2.54] 87631-4 87631-3 8 1 10 .500 [12.70] .200 [5.08] .200 [5.08] 1 87631-6 87631-5 87922-1 .600 [15.24] 12 .300 [7.62] .200 [5.08] 87631-8 87631-7 87922-2 1 .700 [17.78] .300 [7.62] .300 [7.62] 14 1-87631-0 87631-9 87922-3 1 .800 [20.32] .400 [10.16] .300 [7.62] 1-87631-1 16 1 1-87631-2 87922-4

*Cavity identification, AMP, part number and date code stamped on housing and/or strain relief where size permits. **No marking on housing or strain relief.

Notes: 1. The Strain Relief/Pull Tab can be bonded to any thermoplastic connector housing.

2. Strain reliefs may be purchased separately 3. Contact Extraction/Lance Reset Tool No. 843996-3.

Part No. 87077-2 (Plugs directly into housing)

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 Mod IV Wire-Applied Housings

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Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

		Dimensions				Part No:	S.	
No. of		Dimensions		No. of	Without	Strain Relief	With Strain Relief	
Pos.	Α	В	С	Detents	Stamped*	Unstamped**	Stamped*	
18	.900 [22.86]	.400 [10.16]	.400 [10.16]	1	1-87631-4	1-87631-3	87922-5	
20	1.000 [25.40]	.500 [12.70]	.400 [10.16]	2	1-87631-6	1-87631-5	87733-1	
22	1.100 [27.94]	.500 [12.70]	.500 [12.70]	2	1-87631-8	1-87631-7	_	
24	1.200 [30.48]	.600 [15.24]	.500 [12.70]	2	2-87631-0	1-87631-9	87733-3	
26	1.300 [33.02]	.600 [15.24]	.600 [15.24]	2	2-87631-2	2-87631-1	87733-4	
28	1.400 [35.56]	.700 [17.78]	.600 [15.24]	2	2-87631-4	2-87631-3	_	
30	1.500 [38.10]	.700 [17.78]	.700 [17.78]	2	2-87631-6	2-87631-5	87733-6	
32	1.600 [40.64]	.800 [20.32]	.700 [17.78]	2	2-87631-8	2-87631-7	87733-7	
34	1.700 [43.18]	.800 [20.32]	.800 [20.32]	2	3-87631-0	2-87631-9	87733-8	
36	1.800 [45.72]	.900 [22.86]	.800 [20.32]	2	3-87631-2	3-87631-1	_	
38	1.900 [48.26]	.900 [22.86]	.900 [22.86]	2	_	3-87631-3	_	
40	2.000 [50.80]	1.000 [25.40]	.900 [22.86]	2	3-87631-6	3-87631-5	1-87733-1	
42	2.100 [53.34]	1.000 [25.40]	1.000 [25.40]	2	3-87631-8	3-87631-7	_	
44	2.200 [55.88]	1.100 [27.94]	1.000 [25.40]	2	4-87631-0	3-87631-9	_	
48	2.400 [60.96]	1.200 [30.48]	1.100 [27.94]	2	_	5-87631-9	_	
50	2.500 [63.50]	1.200 [30.48]	1.200 [30.48]	2	4-87631-2	4-87631-1	1-87733-4	
52	2.600 [66.04]	1.300 [33.02]	1.200 [30.48]	2	_	4-87631-3	_	
54	2.700 [68.58]	1.300 [33.02]	1.300 [33.02]	2	4-87631-6	4-87631-5	_	
58	2.900 [73.66]	1.400 [35.56]	1.400 [35.56]	2	_	6-87631-3	_	
60	3.000 [76.20]	1.500 [38.10]	1.400 [35.56]	2	5-87631-2	5-87631-1	1-87733-7	
64	3.200 [81.28]	1.600 [40.64]	1.500 [38.10]	2	6-87631-6	6-87631-5	_	
66	3.300 [81.28]	1.600 [40.64]	1.600 [40.64]	2	_	5-87631-3	_	
70	3.500 [88.90]	1.700 [43.18]	1.700 [43.18]	2	_	5-87631-5	_	
72	3.800 [96.52]	1.800 [45.72]	1.700 [43.18]	2	5-87631-8	5-87631-7	_	

*Cavity identification, AMP, part number and date code stamped on housing and/or strain relief where size permits. **No marking on housing or strain relief.

Notes: 1. The Strain Relief/Pull Tab can be bonded to any thermoplastic connector housing.

2. Strain reliefs may be purchased separately. 3. Contact Extraction/Lance Reset Tool No. 843996-3.

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Catalog 1307819 Revised 6-04

www.tycoelectronics.com

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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967





Mod IV Wire-Applied Housings, Double-Row, .100 x .100 [2.54 x 2.54] Centerline (Continued)

Center Polarized



Material: Black thermoplastic, flame retardant

Related Product Data:

Contacts-pages 228-230 Mateable Headers and Posts: Low Profile Shrouded Headers, Double-Row, Straight or Right-Angle Posts—pages 153-155 Low Profile Shrouded Headers, Double-Row, Straight or Right-Angle Posts, with .585 [14.86] Ejection Latches—pages 156-157 AMP-LATCH Ejection Headers with .576 [14.63] Ejection Latches—Catalog 82012, Part Nos. 102186-1 & 102320-1

Technical Documents (pages 294, 296):

Product Specification 108-25007, 208-25019, 108-25020, 108-25021 Application Specification

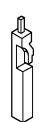
114-25003, 114-25016

Keying Plugs



Part No. 86286-1 (Plugs into standard or intermediate pressure receptacle contact)

Material-Natural color nylon



Part No. 87077-2 (Plugs directly into housing)

Catalog 1307819 Revised 6-04

Downloaded from Arrow.com.

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

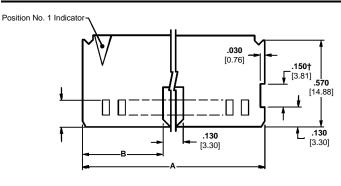
Dimensions are shown for reference purposes only. Specifications subject to change.

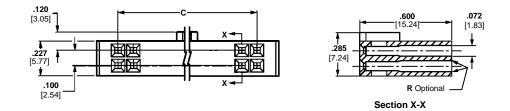
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

Mod IV Wire-Applied Housings

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No. of		Dimensions		Part Nos.
Pos.	Α	В	С	(Stamped*)
8	.580 [14.73]	.225 [5.72]	.300 [7.62]	1-102387-4
10	.680 [17.27]	.275 [6.98]	.400 [10.16]	102387-1
14	.880 [22.35]	.375 [9.53]	.600 [15.24]	102387-2
16	.980 [24.89]	.425 [10.80]	.700 [17.78]	102387-3
20	1.180 [29.97]	.525 [13.34]	.900 [22.86]	102387-4
22	1.280 [32.51]	.575 [14.61]	1.000 [25.40]	1-102387-5
24	1.380 [35.05]	.625 [15.88]	1.100 [27.94]	102387-5
26	1.480 [37.59]	.675 [17.15]	1.200 [30.48]	102387-6
30	1.680 [42.67]	.775 [19.69]	1.400 [35.56]	102387-7
34	1.880 [47.75]	.875 [22.23]	1.600 [40.64]	102387-8
40	2.180 [55.37]	1.025 [26.04]	1.900 [48.26]	102387-9
44	2.380 [60.45]	1.125 [28.58]	2.100 [53.34]	1-102387-3
50	2.680 [68.07]	1.275 [32.39]	2.400 [60.96]	1-102387-0
60	3.180 [80.77]	1.525 [38.74]	2.900 [73.66]	1-102387-1
64	3.380 [85.85]	1.625 [41.28]	3.100 [78.74]	1-102387-2

*Cavity identification and AMP stamped on housing.

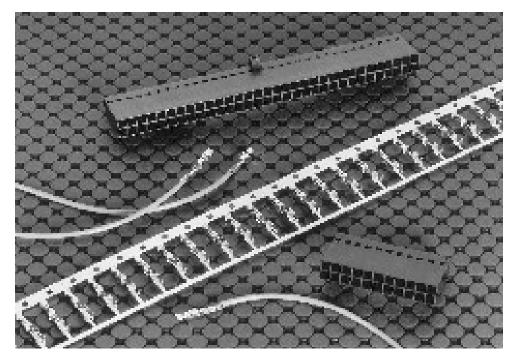
†Non-functional slot is used for gating purposes during injection molding process. This gating feature is not inherent in all production molds. Therefore, the depicted slot will only be present on housings produced on mold tooling requiring this gating feature.

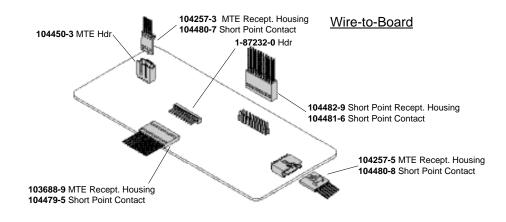
Note: Contact Extraction/Lance Reset Tool No. 843996-3.





Short Point, Crimp Snap-In Wire-Applied Contacts and Housings





AMPMODU Short Point receptacle contacts are designed to mate with .025 [0.64] square posts. They will mate with posts as short as .169 [4.29].

Short Point double-row housings are end-to-end and side-to-side stackable on .100 [2.54] centers. Contacts also can be used in single-row AMPMODU MTE housings to provide a complete wire-crimp system, or to serve as replacement contacts.

Performance Characteristics

Contact Current Rating-3 amperes Termination Resistance— 12 milliohms (max.) Durability—Ref. Tyco Electronics Product Specification 108-1472

- Short point of contact mates with .169 [4.29] to .259 [6.58] long post
- Double-row housings are end-to-end and side-to-side stackable
- Terminates 32-20 AWG [0.03-0.6 mm²] discrete wire
- Contacts have insulation support to accept a maximum insulation diameter of .060 [1.52]
- Available with .000015 [0.00038] or .000030 [0.00076] gold duplex, or bright tin-lead plating
- Mates with .025 [0.64] square posts
- Dual cantilever contact beams for reliable matings
- Locking retention latch provides 3 lb [13.34 N] of retention force
- Unique locking latch design helps prevent latch from protruding through latch window
- Contacts snap into AMPMODU MTE single-row housings
- Double-row housing configurations include .100 [2.54] centerline, plain and polarized
- Housing sizes range from 4 to 52 positions
- Recognized under the **Component Program of** Underwriters 91 Laboratories Inc., File No. E28476
- tt Point, Crimp Snap-In W olied Contacts and Housir Certified by Canadian



Produced under a Quality Management System certified to ISO 9001

A copy of the certificate is available upon request



Catalog 1307819 Revised 6-04

Standards

Association,

specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

millimeters unless otherwise

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



Material and Finish:

Copper alloy C7025, plated as follows:

Plating A—Duplex plated .000030

[0.00076] min. gold on contact area,

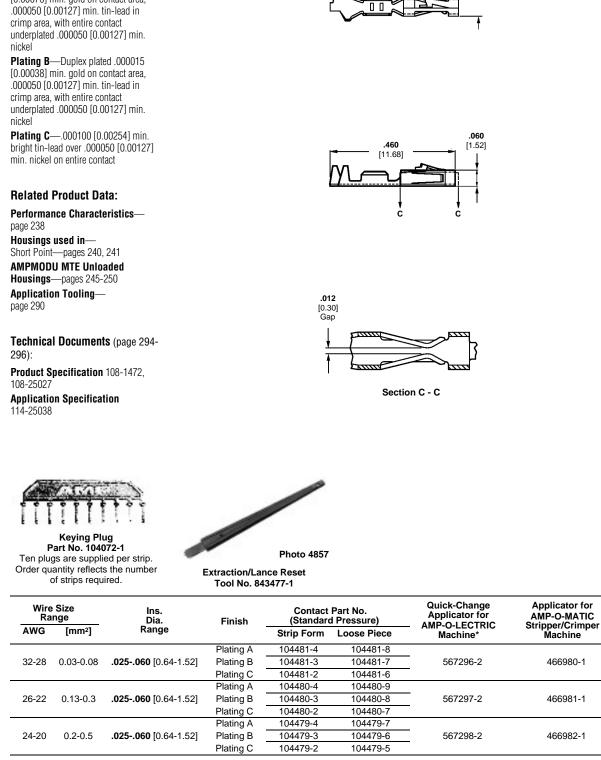


.068

[1.73]

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Short Point Crimp Snap-In Receptacle Contacts



*For use with Model "K" machines. Call the Tooling/Technical Assistance Center (1-800-722-1111) for part nos. of applicators for use with the Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATOR lead making machines.

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 Hand

Tool

Nos.

91518-1

91518-1

91551-1

South America: 55-11-3611-1514

Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967





Material: Black thermoplastic, flame retardant, 94V-0 rated

Related Product Data:

Performance Characteristicspage 238

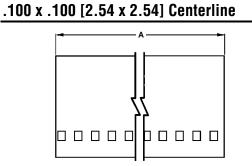
Contacts—page 239

Mateable Headers—pages 105-108, 113, 114

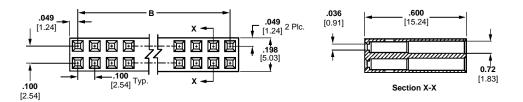
Technical Documents (page 294-296):

Product Specification 108-1472, 108-25027

Application Specification 114-25038



Short Point Wire-Applied Housings, Double-Row, Non-Polarized,



No. of	Dime	ensions	Housing
Pos.	Α	В	Part No.
4	.198 [5.03]	.100 [2.54]	104482-1
6	.298 [7.57]	.200 [5.08]	104482-2
8	.398 [10.11]	.300 [7.62]	104482-3
10	.498 [12.65]	.400 [10.16]	104482-4
12	.598 [15.19]	.500 [12.70]	104482-5
14	.698 [17.73]	.600 [15.24]	104482-6
16	.798 [20.27]	.700 [17.78]	104482-7
18	.898 [22.81]	.800 [20.32]	104482-8
20	.998 [25.35]	.900 [22.86]	104482-9
22	1.098 [27.89]	1.000 [25.40]	1-104482-0
26	1.298 [32.97]	1.200 [30.48]	1-104482-1
28	1.398 [35.51]	1.300 [33.02]	1-104482-2
30	1.498 [38.05]	1.400 [35.56]	1-104482-3
32	1.598 [40.59]	1.500 [38.10]	1-104482-4
34	1.698 [43.13]	1.600 [40.64]	1-104482-5
36	1.798 [45.67]	1.700 [43.18]	1-104482-6
38	1.898 [48.21]	1.800 [45.72]	1-104482-7
40	1.998 [50.75]	1.900 [48.26]	1-104482-8
44	2.198 [55.83]	2.100 [53.34]	1-104482-9
52	2.598 [65.99]	2.500 [63.50]	2-104482-0



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www.tycoelectronics.com

millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





Short Point Wire-Applied Housings, Double-Row, Polarized, .100 x .100 $[2.54 \times 2.54]$ Centerline



Material:

Black thermoplastic, flame retardant, 94V-0 rated

Related Product Data:

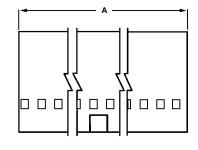
Performance Characteristics page 238 Contacts—page 239

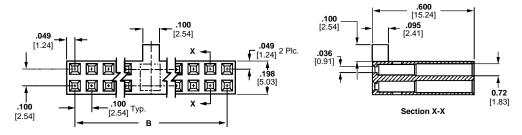
Mateable Headers—pages 121, 122, 153-155

Technical Documents (page 294-296):

Product Specification 108-1472, 108-25027

Application Specification 114-25038





No.of	Dimer	nsions	Housing
Pos.	Α	В	Part No.
8	.398 [10.11]	.300 [7.62]	104483-1
10	.498 [12.65]	.400 [10.16]	1-104483-1
12	.598 [15.19]	.500 [12.70]	1-104483-2
14	.698 [17.73]	.600 [15.24]	104483-9
18	.898 [22.81]	.800 [20.32]	104483-2
20	.998 [25.35]	.900 [22.86]	104483-3
26	1.298 [32.97]	1.200 [30.48]	104483-4
30	1.498 [38.05]	1.400 [35.56]	104483-5
38	1.898 [48.21]	1.800 [45.72]	104483-6
50	2.498 [63.45]	2.400 [60.96]	1-104483-3
52	2.598 [65.99]	2.500 [63.50]	1-104483-0
54	2.698 [68.53]	2.600 [66.04]	104483-7
64	3.198 [81.23]	3.100 [78.74]	104483-8

Note: Other sizes can be made available on request.

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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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



MTE Interconnection System



Product Facts

- Receptacle assemblies mate with .025 [0.64] sq. posts; mating post length is .200 [5.08] min., .250 [6.35] max.
- Proven AMPMODU receptacie contact design; dual cantilever beams, built-in antioverstress, completely enclosed "box" design, standard or high-pressure
- Insulation displacement technology
- Two contact sizes for terminating 30-22 AWG [0.05-0.3 mm²] wire range; .054 [1.37] max. insulation diameter with an insulation wall thickness of .015 [0.38] max.
- Choice of gold duplex or tin plated contacts
- Interchangeable crimp snap-in pin and receptacle contacts available
- Housing sizes 2 through 25 positions, single-row .100 [2.54] centers
- Colors also available
- Plain housings are end-to-end and/or back-to-back stackable for open pin field applications
- Optional header with "swaged tail" feature helps prevent movement prior to flow soldering
- Integral latch provides positive retention between header and receptacle housing
- Coupling shrouds permit ganging of smaller connectors with quide ribs to form larger single- or double-row latching connectors
- Mass terminating tooling provides lowest applied cost for most production needs
- SMT and SMT compatible, high-temp headers available
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189





Dimensions are in inches and

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets are metric equivalents.

The AMPMODU MTE Interconnection System offers both wire-to-board and wire-to-wire connectors using .025 [0.64] sq. post technology.

The AMPMODU MTE Interconnection System consists of single-row housings with contacts preloaded on .100 [2.54] centers. Housings are furnished with contacts partially inserted, leaving the termination areas exposed. Final contact insertion is accomplished automatically by Tyco Electronics application equipment, and manually when terminated with the Tyco Electronics pistol grip hand tool.

The heart of the system is the insulation displacement contact design, featured in both pin and receptacle

Dimensions are shown for

reference purposes only.

Specifications subject

to change.

contacts. The receptacle contact, available in either standard or high-pressure, features dual cantilever beams in an enclosed "box." The post stop helps prevent a mating post from disturbing the wire termination and also limits the mating depth of a long post to protect a wrap-type termination at the base of the post. The forward contact stop helps prevent contact overinsertion prior to termination. All contacts are furnished on carrier strips which are interlocked for stability and positive location during termination.

Single-row housings are available in sizes 2 through 25 positions. Included are three styles of receptacle housings-plain, polarized/ latching and ribbed and two styles of pin housings, shrouded with polarizing/

> USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

Performance **Specifications**

Electrical Characteristics

Contact Current Rating-3 amperes for single contact in free air (Amperage could vary due to ambient temperature, wire size and duty cycles.)

Contact Termination Resistance—15 milliohms (max.)

Dielectric Withstanding Voltage-At Sea Level-600 VAC, rms At 70,000 Ft. [21 336 m]-225 VAC, rms Insulation Resistance—

5,000 megohms (min.)

Environmental Characteristics

Operating Temperature— -65°C to +105°C Vibration-15 G's (gold), 10 G's (tin) Physical Shock-50 G's

Industrial Mixed Flow Gasing-Class 1 (20 days) (gold)

Product Specification 108-25034

Application Specification 114-25026

> South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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MTE Interconnection System

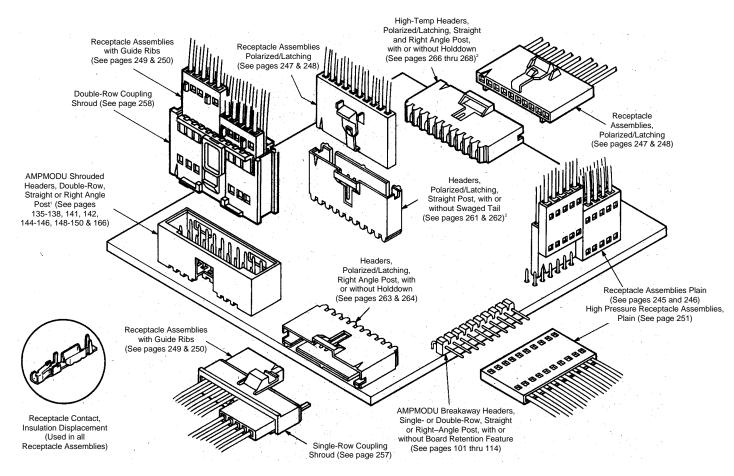






MTE Interconnection System (Continued)

Wire-to-Board



Mating AMPMODU Double-Row Shrouded Header Assemblies must have .318 [8.08] mating post length and .150 [3.81] dimension from centerline of last post to inside of end shroud wall.

²Surface Mount Right-Angle and Vertical Headers are also available (see pages 269 and 270)

Catalog 1307819 Revised 6-04

www.tycoelectronics.com

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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



Wire-to-Wire

(Used with Unloaded

Housings— See page 272)



Pin Assemblies, Shrouded Polarized/Latching (See pages 253 & 254) Receptacle Assemblies, Polarized/Latching (See pages 247 & 248) Receptacle Contact, Pin Contact, Insulation Displacement (Used in all Insulation Displacement (Used in all Pin Receptacle Assemblies) Assemblies) Pin Assemblies with Guide Ribs (See pages 255 & 256) Panel Mount Pin Shroud (See page 259) Receptacle Assemblies Crimp Snap-In Single-Row with Guide Ribs Coupling Shroud (See Receptacle Contact (See pages 249 & 250)

page 257)

Crimp Snap-In Pin Contact (Used with Unloaded Housings-See page 273)

Note: For wire-to-wire applications shown above, all pin and receptacle assembly combinations are intermateable.

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Catalog 1307819 Revised 6-04

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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



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MTE Receptacle Assemblies—Plain, Single-Row, .100 [2.54] Centerine

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Receptacle Contacts

(See Note 1)

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Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco Electronics Manual Pistol Grip Tool.

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contacts—Phosphor Bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating C-000100 [0.00254] bright tin-lead over .000050 [0.00127] nickel on entire contact

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., .250 [6.35] max

Related Product Data:

Mateable AMPMODU Products: Breakaway Headers—pages 101-

114, 117-124 (with .230 mating length) Reeled Breakaway Headerspages 115-116 (with .230 mating length) **Machine Applied Bandolier** Posts—page 180 Single- or Double-Row Shrouded Headers with .066 [1.68] End Dimension—pages 118, 121, 129-134,

139, 140, 143, 147, 149, 150, 162-165 Interchangeable Crimp Contacts (Short Point)-page 272

Application Tooling—pages 291, 292 Performance Specificationspage 242

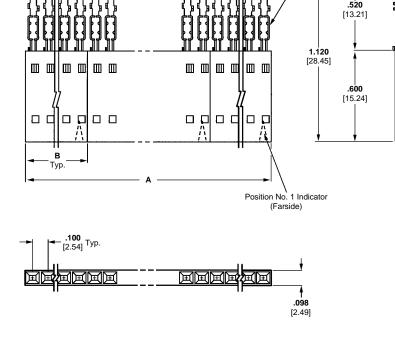
Technical Documents (page 295, 296):

Product Specification 108-25034 **Application Specification** 114-25026

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and



These receptacle assemblies with plain housings can be stacked end-to-end and/or sideto-side for single or double-row connections to an open pin field with a .100 [2.54] centerline grid.

> Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 MTE Receptacle Assemblies





MTE Receptacle Assemblies—Strip Form Plain, Single-Row, .100 [2.54] Centerline (Continued)

No. of	Dime	Dimensions		Strip For 30-26 AV	m Receptacle / VG [0.05-0.15m	Assembly nm ²¹ Wire		Assembly m ^{2]} Wire	Unloaded	
Pos.	Α	В	Per Strip Segment	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
2	2.000 [50.80]	.198 [5.03]	10	103979-1	103978-1	103977-1	103976-1	103975-1	103974-1	103688-1
3	2.400 [60.96]	.298 [7.57]	8	103979-2	103978-2	103977-2	103976-2	103975-2	103974-2	103688-2
4	1.990 [50.55]	.398 [10.11]	5	103979-3	103978-3	103977-3	103976-3	103975-3	103974-3	103688-3
5	1.990 [50.55]	.498 [12.65]	4	103979-4	103978-4	103977-4	103976-4	103975-4	103974-4	103688-4
6	2.390 [60.71]	.598 [15.19]	4	103979-5	103978-5	103977-5	103976-5	103975-5	103974-5	103688-5
7	1.400 [35.56]	.698 [17.73]	2	103979-6	103978-6	103977-6	103976-6	103975-6	103974-6	103688-6
8	1.600 [40.64]	.798 [20.27]	2	103979-7	103978-7	103977-7	103976-7	103975-7	103974-7	103688-7
9	1.800 [45.72]	.898 [22.81]	2	103979-8	103978-8	103977-8	103976-8	103975-8	103974-8	103688-8
10	2.000 [50.80]	.998 [23.35]	2	103979-9	103978-9	103977-9	103976-9	103975-9	103974-9	103688-9
11	2.200 [55.88]	1.098 [27.89]	2	1-103979-0	1-103978-0	1-103977-0	1-103976-0	1-103975-0	1-103974-0	1-103688-0
12	2.400 [60.96]	1.198 [30.43]	2	1-103979-1	1-103978-1	1-103977-1	1-103976-1	1-103975-1	1-103974-1	1-103688-1

MTE Receptacle Assemblies—Individual Form Plain, Single-Row, .100 [2.54] Centerline

No. of	Dimensions	50-20 AWG [0.05-0.15iiiii] Wile				Individual Receptacle Assembly 26-22 AWG [0.12-0.3mm ²] Wire			
Pos.	В	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings	
13	1.298 [32.96]	1-103903-2	1-103684-2	1-103685-2	1-103902-2	1-103686-2	1-103687-2	1-103688-2	
14	1.398 [35.51]	1-103903-3	1-103684-3	1-103685-3	1-103902-3	1-103686-3	1-103687-3	1-103688-3	
15	1.498 [38.05]	1-103903-4	1-103684-4	1-103685-4	1-103902-4	1-103686-4	1-103687-4	1-103688-4	
16	1.598 [40.59]	1-103903-5	1-103684-5	1-103685-5	1-103902-5	1-103686-5	1-103687-5	1-103688-	
17	1.698 [43.13]	1-103903-6	1-103684-6	1-103685-6	1-103902-6	1-103686-6	1-103687-6	1-103688-0	
18	1.798 [45.67]	1-103903-7	1-103684-7	1-103685-7	1-103902-7	1-103686-7	1-103687-7	1-103688-	
19	1.898 [48.20]	1-103903-8	1-103684-8	1-103685-8	1-103902-8	1-103686-8	1-103687-8	1-103688-	
20	1.998 [50.75]	1-103903-9	1-103684-9	1-103685-9	1-103902-9	1-103686-9	1-103687-9	1-103688-	
21	2.098 [53.29]	2-103903-0	2-103684-0	2-103685-0	2-103902-0	2-103686-0	2-103687-0	2-103688-0	
22	2.198 [55.83]	2-103903-1	2-103684-1	2-103685-1	2-103902-1	2-103686-1	2-103687-1	2-103688-	
23	2.298 [58.37]	2-103903-2	2-103684-2	2-103685-2	2-103902-2	2-103686-2	2-103687-2	2-103688-2	
24	2.398 [60.91]	2-103903-3	2-103684-3	2-103685-3	2-103902-3	2-103686-3	2-103687-3	2-103688-3	
25	2.498 [63.45]	2-103903-4	2-103684-4	2-103685-4	2-103902-4	2-103686-4	2-103687-4	2-103688-4	

Notes: 1. Receptacle assemblies are furnished with strip contacts partially inserted into housing-contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with Tyco Electronics application machines, or manually when terminated with AMP pistol grip hand tool.

2. Use Extraction/Lance Reset Tool No. 843477-1 to remove receptacle contacts.

3. Keying plugs are available, see page 272.

Revised 6-04 www.tycoelectronics.com

Catalog 1307819

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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425







Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco **Electronics Manual Pistol Grip** Tool.

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contacts-Phosphor Bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area. with entire contact underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

tin-lead over .000050 [0.00127] nickel on entire contact

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., .250 [6.35] max.

Related Product Data:

Mateable AMPMODU Products:

Pin Assemblies (Polarized/Latching)pages 253, 254

Pin Assemblies with Guide **Ribs (installed in Panel Mount** Pin Shroud)—pages 255, 256, 259

Headers (Polarized/Latching) pages 261-270

Interchangeable Crimp Contacts (Short Point)-page 272

Application Tooling—pages 291, 292 Performance Specificationspage 242

Technical Documents (pages 295, 296):

Product Specification 108-25034

Application Specification 114-25026

Catalog 1307819 Revised 6-04

specified. Values in brackets www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise to change.

Dimensions are shown for reference purposes only. Specifications subject

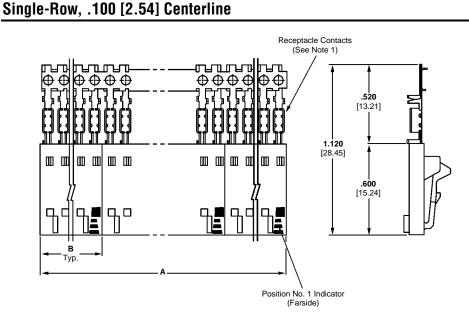
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

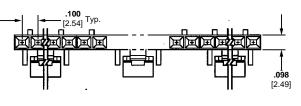
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are metric equivalents.

MTE Receptacle Assemblies—Polarized/Latching,









MTE Receptacle Assemblies—Strip Form Polarized/Latching, Single-Row, .100 [2.54] Centerline (Continued)

No. of	Dime	Dimensions		Strip Fori 30-26 AV	m Receptacle / VG [0.05-0.15m	Assembly nm ^{2]} Wire	Strip For 26-22 A	Assembly m ^{2]} Wire	Unloaded	
Pos.	Α	В	Per Strip Segment	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
2	2.000 [50.80]	.198 [5.03]	10	103961-1	103960-1	103959-1	103958-1	103957-1	103956-1	104257-1
3	2.400 [60.96]	.298 [7.57]	8	103961-2	103960-2	103959-2	103958-2	103957-2	103956-2	104257-2
4	1.990 [50.55]	.398 [10.11]	5	103961-3	103960-3	103959-3	103958-3	103957-3	103956-3	104257-3
5	1.990 [50.55]	.498 [12.65]	4	103961-4	103960-4	103959-4	103958-4	103957-4	103956-4	104257-4
6	2.390 [60.71]	.598 [15.19]	4	103961-5	103960-5	103959-5	103958-5	103957-5	103956-5	104257-5
7	1.400 [35.56]	.698 [17.73]	2	103961-6	103960-6	103959-6	103958-6	103957-6	103956-6	104257-6
8	1.600 [40.64]	.798 [20.27]	2	103961-7	103960-7	103959-7	103958-7	103957-7	103956-7	104257-7
9	1.800 [45.72]	.898 [22.81]	2	103961-8	103960-8	103959-8	103958-8	103957-8	103956-8	104257-8
10	2.000 [50.80]	.998 [23.35]	2	103961-9	103960-9	103959-9	103958-9	103957-9	103956-9	104257-9
11	2.200 [55.88]	1.098 [27.89]	2	1-103961-0	1-103960-0	1-103959-0	1-103958-0	1-103957-0	1-103956-0	1-104257-0
12	2.400 [60.96]	1.198 [30.43]	2	1-103961-1	1-103960-1	1-103959-1	1-103958-1	1-103957-1	1-103956-1	1-104257-1

MTE Receptacle Assemblies-Individual Form Polarized/Latching, Single-Row, .100 [2.54] Centerline

No. of	Dimensions 30-26 AWG [0.05-0.15mm²] Wire				Assembly nm ²] Wire	Unloaded		
Pos.	В	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
13	1.298 [32.96]	1-103897-2	1-103640-2	1-103641-2	1-103734-2	1-103644-2	1-103645-2	1-104257-2
14	1.398 [35.51]	1-103897-3	1-103640-3	1-103641-3	1-103734-3	1-103644-3	1-103645-3	1-104257-3
15	1.498 [38.05]	1-103897-4	1-103640-4	1-103641-4	1-103734-4	1-103644-4	1-103645-4	1-104257-4
16	1.598 [40.59]	1-103897-5	1-103640-5	1-103641-5	1-103734-5	1-103644-5	1-103645-5	1-104257-
17	1.698 [43.13]	1-103897-6	1-103640-6	1-103641-6	1-103734-6	1-103644-6	1-103645-6	1-104257-0
18	1.798 [45.67]	1-103897-7	1-103640-7	1-103641-7	1-103734-7	1-103644-7	1-103645-7	1-104257-
19	1.898 [48.20]	1-103897-8	1-103640-8	1-103641-8	1-103734-8	1-103644-8	1-103645-8	1-104257-
20	1.998 [50.75]	1-103897-9	1-103640-9	1-103641-9	1-103734-9	1-103644-9	1-103645-9	1-104257-
21	2.098 [53.29]	2-103897-0	2-103640-0	2-103641-0	2-103734-0	2-103644-0	2-103645-0	2-104257-
22	2.198 [55.83]	2-103897-1	2-103640-1	2-103641-1	2-103734-1	2-103644-1	2-103645-1	2-104257-
23	2.298 [58.37]	2-103897-2	2-103640-2	2-103641-2	2-103734-2	2-103644-2	2-103645-2	2-104257-
24	2.398 [60.91]	2-103897-3	2-103640-3	2-103641-3	2-103734-3	2-103644-3	2-103645-3	2-104257-3
25	2.498 [63.45]	2-103897-4	2-103640-4	2-103641-4	2-103734-4	2-103644-4	2-103645-4	2-104257-

Notes: 1. Receptacle assemblies are furnished with strip contacts partially inserted into housing-contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool. 2. Use Extraction/Lance Reset Tool No. 843477-1 to remove receptacle contacts.

3. Keying plugs are available, see page 272.



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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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425







Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco Electronics Manual Pistol Grip Tool.

Material and Finish:

Housing—Black thermoplastic. 94V-0 rated

Contacts-Phosphor Bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

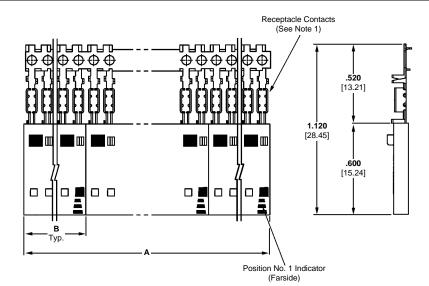
Plating C—.000100 [0.00254] bright tin-lead over .000050 [0.00127] nickel on entire contact

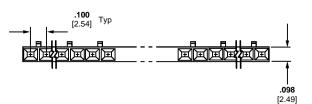
Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., .250 [6.35] max

Related Product Data:

Coupling Shrouds used with: Single-Row—page 257 Double-Row—page 258 Mateable AMPMODU Products (with **Receptacle Assemblies Installed** in Single-Row Coupling Shrouds): Pin Assemblies (Polarized/ Latching)-pages 253, 254 Pin Assemblies with Guide Ribs (installed in Panel Mount Pin Shroud)—pages 255, 256, 259 Headers (Polarized/Latching)pages 261-270 Mateable AMPMODU Products (with **Receptacle Assemblies Installed** in Double-Row Coupling Shrouds): Headers, Shrouded, Double-Row (.318 [8.08] mating post length, **.150 [3.81] end dimension)**—pages 135-138, 141, 142, 144, 145, 146, 148-150, 166

Interchangeable Crimp Contacts-(Short Point)—page 272 Application Tooling—pages 291, 292 Performance Specifications—page 242 MTE Receptacle Assemblies—Guide Ribs, Single-Row, .100 [2.54] Centerline





MTE Receptacle Assemblies

Technical Documents (pages 295, 296): **Product Specification** 108-25034 **Application Specification**

114-25026

Dimensions are in inches and

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





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MTE Receptacle Assemblies—Strip Form with Guide Ribs, Single-Row, .100 [2.54] Centerline (Continued)

No. of	Dime	Dimensions			m Receptacle / VG [0.05-0.15m		Strip For 26-22 A	Unloaded		
Pos.	Α	В	Per Strip Segment	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
2	2.000 [50.80]	.198 [5.03]	10	103973-1	103972-1	103971-1	103970-1	103969-1	103968-1	103648-1
3	2.400 [60.96]	.298 [7.57]	8	103973-2	103972-2	103971-2	103970-2	103969-2	103968-2	103648-2
4	1.990 [50.55]	.398 [10.11]	5	103973-3	103972-3	103971-3	103970-3	103969-3	103968-3	103648-3
5	1.990 [50.55]	.498 [12.65]	4	103973-4	103972-4	103971-4	103970-4	103969-4	103968-4	103648-4
6	2.390 [60.71]	.598 [15.19]	4	103973-5	103972-5	103971-5	103970-5	103969-5	103968-5	103648-5
7	1.400 [35.56]	.698 [17.73]	2	103973-6	103972-6	103971-6	103970-6	103969-6	103968-6	103648-6
8	1.600 [40.64]	.798 [20.27]	2	103973-7	103972-7	103971-7	103970-7	103969-7	103968-7	103648-7
9	1.800 [45.72]	.898 [22.81]	2	103973-8	103972-8	103971-8	103970-8	103969-8	103968-8	103648-8
10	2.000 [50.80]	.998 [23.35]	2	103973-9	103972-9	103971-9	103970-9	103969-9	103968-9	103648-9
11	2.200 [55.88]	1.098 [27.89]	2	1-103973-0	1-103972-0	1-103971-0	1-103970-0	1-103969-0	1-103968-0	1-103648-0
12	2.400 [60.96]	1.198 [30.43]	2	1-103973-1	1-103972-1	1-103971-1	1-103970-1	1-103969-1	1-103968-1	1-103648-1

MTE Receptacle Assemblies—Individual Form with Guide Ribs, Single-Row, .100 [2.54] Centerline

No. of	Dimensions	30-20 AWG [0.03-0.1311111] WITE				Assembly nm ²] Wire	Unloaded	
Pos.	В	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
13	1.298 [32.96]	1-103901-2	1-103649-2	1-103650-2	1-103900-2	1-103651-2	1-103652-2	1-103648-2
14	1.398 [35.51]	1-103901-3	1-103649-3	1-103650-3	1-103900-3	1-103651-3	1-103652-3	1-103648-3
15	1.498 [38.05]	1-103901-4	1-103649-4	1-103650-4	1-103900-4	1-103651-4	1-103652-4	1-103648-4
16	1.598 [40.59]	1-103901-5	1-103649-5	1-103650-5	1-103900-5	1-103651-5	1-103652-5	1-103648-
17	1.698 [43.13]	1-103901-6	1-103649-6	1-103650-6	1-103900-6	1-103651-6	1-103652-6	1-103648-0
18	1.798 [45.67]	1-103901-7	1-103649-7	1-103650-7	1-103900-7	1-103651-7	1-103652-7	1-103648-
19	1.898 [48.20]	1-103901-8	1-103649-8	1-103650-8	1-103900-8	1-103651-8	1-103652-8	1-103648-
20	1.998 [50.75]	1-103901-9	1-103649-9	1-103650-9	1-103900-9	1-103651-9	1-103652-9	1-103648-9
21	2.098 [53.29]	2-103901-0	2-103649-0	2-103650-0	2-103900-0	2-103651-0	2-103652-0	2-103648-0
22	2.198 [55.83]	2-103901-1	2-103649-1	2-103650-1	2-103900-1	2-103651-1	2-103652-1	2-103648-
23	2.298 [58.37]	2-103901-2	2-103649-2	2-103650-2	2-103900-2	2-103651-2	2-103652-2	2-103648-2
24	2.398 [60.91]	2-103901-3	2-103649-3	2-103650-3	2-103900-3	2-103651-3	2-103652-3	2-103648-3
25	2.498 [63.45]	2-103901-4	2-103649-4	2-103650-4	2-103900-4	2-103651-4	2-103652-4	2-103648-

Notes: 1. Receptacle assemblies are furnished with strip contacts partially inserted into housing—contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.

2. Use Extraction/Lance Reset Tool No. 843477-1 to remove receptacle contacts.

3. Keying plugs are available, see page 272.



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Revised 6-04 www.tycoelectronics.com

Catalog 1307819

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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





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Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco Electronics Manual Pistol Grip Tool.

Material and Finish:

Housing-Black thermoplastic, 94V-0 rated

Contacts—Phosphor Bronze, duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max. Mating post length for preloaded housings is .200 [5.08] min., .250 [6.35] max.

Related Product Data:

Mateable AMPMODU Products:

Breakaway Headers-pages 101-114, 117-124 (with .230 mating length) **Reeled Breakaway Headers**pages 115-116 (with .230 mating length)

Machine Applied Bandolier Posts—page 180

Application Tooling—pages 291, 292 Performance Specifications-

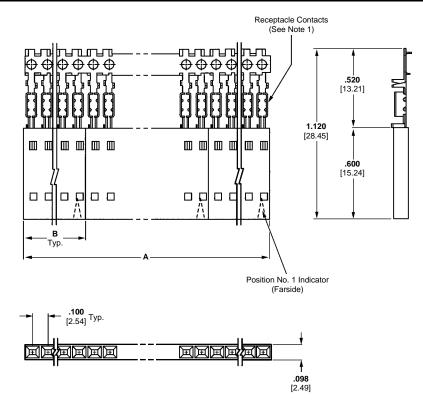
page 242

Technical Documents (pages 295, 296):

Product Specification 108-25034

Application Specification 114-25026





No. qf	Dimen	sions	Housings Quantites Per	Strip Form Receptacle	Strip Form Receptacle
Pos	A	В	Strip Segment	Assembly 30-26 AWG [.0515mm ²] Wire	Assembly 26-22 AWG [.1230mm ²] Wire
2	1.980 [50.29]	.198 [5.03]	10	104438-1	104439-1
3	1.490 [37.85]	.298 [7.57]	5	104438-2	104439-2
4	1.990 [50.55]	.398 [10.11]	5	104438-3	104439-3
5	1 .990 [50.55]	.498 [12.65]	4	104438-4	104439-4
6	2.390 [60.71]	.598 [15.19]	4	104438-5	104439-5
7	1.400 [35.56]	.698 [17.73]	2	104438-6	104439-6
8	1.600 [40.64]	.798 [20.27]	2	104438-7	104439-7
9	1.800 [45.72]	.898 [22.81]	2	104438-8	104439-8
10	2.000 [50.80]	.998 [23.35]	2	104438-9	104439-9
11	2.200 [55.88]	1.098 [27.89]	2	1-104438-0	1-104439-0
12	2.400 [60.96]	1.198 [30.43]	2	1-104438-1	1-104439-1

Notes: 1. Receptacle assemblies are furnished with strip contacts partially inserted into housing-contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool. 2. High pressure receptacle contacts can be made available in other housing styles and position sizes.

Contact your Tyco Electronics sales representative.

Catalog 1307819 Revised 6-04

specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

millimeters unless otherwise

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



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MTE High Pressure Receptacle Assemblies – Guide Ribs



Electronics



Photo 5527

Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco Electronics Manual Pistol Grip Tool.

Material and Finish:

Housing—Thermoplastic, Color-Black, 94V-0 rated

Contacts—Phosphor Bronze, Duplex plated .000030 [0.00076] gold on contact area .000100 [0.00254] min. tin-lead on crimp area, with entire post under-plated .000050 [0.00127] nickel.

Related Product Data:

Coupling Shrouds used with: Single-Row—page 257 Double-Row—page 258 Mateable AMPMODU Products (with Receptacle Assemblies Installed in Single-Row Coupling Shrouds):

Pin Assemblies (Polarized/ Latching)—pages 253, 254 Pin Assemblies with Guide Ribs (installed in Panel Mount Pin Shroud)—pages 255, 256, 259 Headers (Polarized/Latching) pages 261-270

Mateable AMPMODU Products (with Receptacle Assemblies Installed in Double-Row Coupling Shrouds):

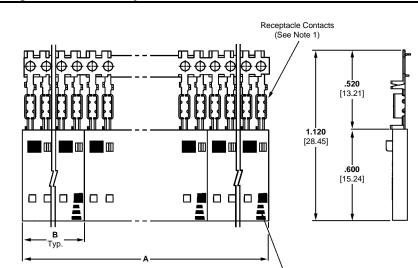
Headers, Shrouded, Double-Row (.318 [8.08] mating post length, .150 [3.81] end dimension)pages 135, 137, 141, 145, 146, 148-150, 166

Application Tooling—pages 291, 292 Performance Specificationspage 242

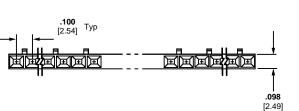
Technical Documents (pages 295, 296):

Product Specification 108-25034

Application Specification 114-25026



Position No. 1 Indicator (Farside)



No. qf	Dimen	sions	Housings Quantites Per	Strip Form Receptacle	Strip Form Receptacle
Pos	A	В	Strip Segment	Assembly 30-26 AWG [.0515mm ²] Wire	Assembly 26-22 AWG [.1230mm ²] Wire
2	1.980 [50.29]	.198 [5.03]	10	147396-1	147030-3
3	1.490 [37.85]	.298 [7.57]	5	147396-2	147030-4
4	1.990 [50.55]	.398 [10.11]	5	147396-3	147030-1
5	1.990 [50.55]	.498 [12.65]	4	147396-4	147030-2
6	2.390 [60.71]	.598 [15.19]	4	147396-5	147030-5
7	1.400 [35.56]	.698 [17.73]	2	147396-6	147030-6
8	1.600 [40.64]	.798 [20.27]	2	147396-7	147030-7
9	1.800 [45.72]	.898 [22.81]	2	147396-8	147030-8
10	2.000 [50.80]	.998 [23.35]	2	147396-9	147030-9
11	2.200 [55.88]	1.098 [27.89]	2	1-147396-0	1-147030-0
12	2.400 [60.96]	1.198 [30.43]	2	1-147396-1	1-147030-1

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MTE Pin Assemblies

Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



Single-Row, .100 [2.54] Centerline

MTE Pin Assemblies, Shrouded—Polarized/Latching,



Electronics



Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco Electronics Manual Pistol Grip Tool.

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contacts—Phosphor Bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating C—.000100 [0.00254] bright tin-lead over .000050 [0.00127] nickel on entire contact

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max.

Related Product Data:

Mateable AMPMODU Products:

Receptacle Assemblies (Polarized/Latching) pages 247, 248

Receptacle Assemblies with Guide Ribs (installed in Single-Row Coupling Shroud)—pages 249, 250, 252, 257

Interchangeable Crimp Contacts page 273

Application Tooling—pages 291, 292 Performance Specifications page 242

Technical Documents (pages 295, 296):

Product Specification 108-25034 Application Specificati

Application Specification 114-25026

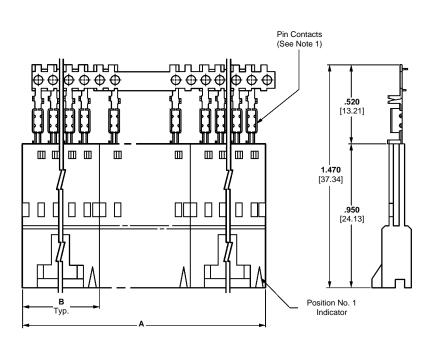
Catalog 1307819 Revised 6-04

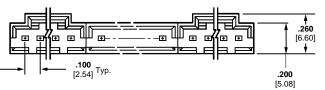
www.tycoelectronics.com specified. Valu are metric equ

millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967 **MTE Pin Assemblies**









MTE Pin Assemblies, Shrouded—Strip Form Polarized/Latching, Single-Row, .100 [2.54] Centerline (Continued)

No. of	Dime	Dimensions			Form Pin Asso VG [0.05-0.15m			embly m²i Wire	Unloaded	
Pos.	Α	В	Per Strip Segment	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
2	2.360 [59.94]	.295 [7.49]	8	103949-1	103948-1	103947-1	103946-1	103945-1	103944-1	103653-1
3	1.980 [50.29]	.395 [10.03]	5	103949-2	103948-2	103947-2	103946-2	103945-2	103944-2	103653-2
4	1.980 [50.29]	.495 [12.57]	4	103949-3	103948-3	103947-3	103946-3	103945-3	103944-3	103653-3
5	2.380 [60.45]	.595 [15.11]	4	103949-4	103948-4	103947-4	103946-4	103945-4	103944-4	103653-4
6	1.390 [35.31]	.695 [17.65]	2	103949-5	103948-5	103947-5	103946-5	103945-5	103944-5	103653-5
7	2.390 [60.71]	.795 [20.19]	3	103949-6	103948-6	103947-6	103946-6	103945-6	103944-6	103653-6
8	1.790 [45.47]	.895 [22.73]	2	103949-7	103948-7	103947-7	103946-7	103945-7	103944-7	103653-7
9	1.990 [50.57]	.995 [25.27]	2	103949-8	103948-8	103947-8	103946-8	103945-8	103944-8	103653-8
10	2.190 [55.63]	1.095 [27.81]	2	103949-9	103948-9	103947-9	103946-9	103945-9	103944-9	103653-9
11	2.390 [60.71]	1.195 [30.35]	2	1-103949-0	1-103948-0	1-103947-0	1-103946-0	1-103945-0	1-103944-0	1-103653-0
12	2.590 [65.79]	1.295 [32.89]	2	1-103949-1	1-103948-1	1-103947-1	1-103946-1	1-103945-1	1-103944-1	1-103653-1

MTE Pin Assemblies, Shrouded—Individual Form Polarized/Latching, Single-Row, .100 [2.54] Centerline

No. of Pos.	Dimensions B	Individual Pin Assembly 30-26 AWG [0.05-0.15mm ²] Wire		Individual Pin Assembly 26-22 AWG [0.12-0.3mm²] Wire			Unloaded	
		Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
13	1.395 [35.43]	1-103894-2	1-103658-2	1-103659-2	1-103893-2	1-103660-2	1-103661-2	1-103653-2
14	1.495 [37.97]	1-103894-3	1-103658-3	1-103659-3	1-103893-3	1-103660-3	1-103661-3	1-103653-3
15	1.595 [40.51]	1-103894-4	1-103658-4	1-103659-4	1-103893-4	1-103660-4	1-103661-4	1-103653-4
16	1.695 [43.05]	1-103894-5	1-103658-5	1-103659-5	1-103893-5	1-103660-5	1-103661-5	1-103653-5
17	1.795 [45.59]	1-103894-6	1-103658-6	1-103659-6	1-103893-6	1-103660-6	1-103661-6	1-103653-0
18	1.895 [48.13]	1-103894-7	1-103658-7	1-103659-7	1-103893-7	1-103660-7	1-103661-7	1-103653-7
19	1.995 [50.67]	1-103894-8	1-103658-8	1-103659-8	1-103893-8	1-103660-8	1-103661-8	1-103653-8
20	2.095 [53.21]	1-103894-9	1-103658-9	1-103659-9	1-103893-9	1-103660-9	1-103661-9	1-103653-
21	2.195 [55.75]	2-103894-0	2-103658-0	2-103659-0	2-103893-0	2-103660-0	2-103661-0	2-103653-
22	2.295 [58.29]	2-103894-1	2-103658-1	2-103659-1	2-103893-1	2-103660-1	2-103661-1	2-103653-
23	2.395 [60.83]	2-103894-2	2-103658-2	2-103659-2	2-103893-2	2-103660-2	2-103661-2	2-103653-2
24	2.495 [63.37]	2-103894-3	2-103658-3	2-103659-3	2-103893-3	2-103660-3	2-103661-3	2-103653-3
25	2.595 [65.91]	2-103894-4	2-103658-4	2-103659-4	2-103893-4	2-103660-4	2-103661-4	2-103653-4

Notes: 1. Pin assemblies are furnished with strip contacts partially inserted into housing—contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.

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Catalog 1307819 Revised 6-04

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

2. Use Extraction/Lance Reset Tool No. 843477-1 to remove pin contacts.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



MTE Pin Assemblies—Guide Ribs. Single-Row, .100 [2.54] Centerline

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.520 [13.21]

.600

[15.24]

1.120

[28.45]

Position No. 1 Indicator

(Farside)

Pin Contacts (See Note 1)

> .098 [2.49]

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Preassembled housings in strip form are available in positions 2 thru 12. For ease of handling, positions 2 thru 5 are recommended when using the Tyco Electtronics Manual Pistol Grip Tool.

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contacts—Phosphor Bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating C—.000100 [0.00254] bright tin-lead over .000050 [0.00127] nickel on entire contact

Note: Insulation displacement contacts accept an insulation diameter of .030 [0.76] min. to .054 [1.37] max. with an insulation wall thickness of .015 [0.38] max

Related Product Data:

Mateable AMPMODU MTE Products (with Pin Assembly Installed in Panel Mount Pin Shroud): pages 259, 260 **Receptacle Assemblies**

(Polarized/Latching)pages 247, 248

Receptacle Assemblies with Guide Ribs (installed in Single Coupling Shroud—pages 249, 250, 252, 257

Interchangeable Crimp Contacts -page 273

Application Tooling—pages 291, 292 Performance Specifications page 242

Technical Documents (pages 295, 296):

Product Specification 108-25034 **Application Specification**

114-25026

Catalog 1307819 Revised 6-04

specified. Values in brackets are metric equivalents.

Dimensions are in inches and millimeters unless otherwise

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

MTE Pin Assemblies





MTE Pin Assemblies-Strip Form with Guide Ribs, Single-Row, .100 [2.54] Centerline (Continued)

No. of	No. of <u>Dimensions</u> Quan Pos. <u>A B</u> Per 3	ensions	Housing Quantities		Strip Form Pin Assembly 0-26 AWG [0.05-0.15mm ^{2]} Wire		Strip Form Pin Assembly 26-22 AWG [0.12-0.3mm ^{2]} Wire			Unloaded
Pos.		Per Strip Segment	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings	
2	1.980 [50.29]	0.198 [5.03]	10	103955-1	103954-1	103953-1	103952-1	103951-1	103950-1	104503-1
3	1.490 [37.85]	0.298 [7.57]	5	103955-2	103954-2	103953-2	103952-2	103951-2	103950-2	104503-2
4	1.990 [50.55]	0.398 [10.11]	5	103955-3	103954-3	103953-3	103952-3	103951-3	103950-3	104503-3
5	1.990 [50.55]	0.498 [12.65]	4	103955-4	103954-4	103953-4	103952-4	103951-4	103950-4	104503-4
6	2.390 [60.71]	0.598 [15.19]	4	103955-5	103954-5	103953-5	103952-5	103951-5	103950-5	104503-5
7	1.400 [35.56]	0.698 [17.73]	2	103955-6	103954-6	103953-6	103952-6	103951-6	103950-6	104503-6
8	1.600 [40.64]	0.798 [20.27]	2	103955-7	103954-7	103953-7	103952-7	103951-7	103950-7	104503-7
9	1.800 [45.72]	0.898 [22.81]	2	103955-8	103954-8	103953-8	103952-8	103951-8	103950-8	104503-8
10	2.000 [50.80]	0.998 [25.35]	2	103955-9	103954-9	103953-9	103952-9	103951-9	103950-9	104503-9
11	2.200 [55.88]	1.098 [27.89]	2	1-103955-0	1-103954-0	1-103953-0	1-103952-0	1-103951-0	1-103950-0	1-104503-0
12	2.400 [60.96]	1.198 [30.43]	2	1-103955-1	1-103954-1	1-103953-1	1-103952-1	1-103951-1	1-103950-1	1-104503-1

MTE Pin Assemblies—Individual Form with Guide Ribs, Single-Row, .100 [2.54] Centerline

No. of Pos.	Dimensions B	Individual Pin Assembly 30-26 AWG [0.05-0.15mm ²] Wire		Individual Pin Assembly 26-22 AWG [0.12-0.3mm ²] Wire			Unloaded	
		Plating A	Plating B	Plating C	Plating A	Plating B	Plating C	Housings
13	1.398 [35.51]	1-103896-2	1-103657-2	1-103656-2	1-103895-2	1-103655-2	1-103654-2	1-104503-2
14	1.498 [38.05]	1-103896-3	1-103657-3	1-103656-3	1-103895-3	1-103655-3	1-103654-3	1-104503-3
15	1.598 [40.59]	1-103896-4	1-103657-4	1-103656-4	1-103895-4	1-103655-4	1-103654-4	1-104503-4
16	1.698 [43.13]	1-103896-5	1-103657-5	1-103656-5	1-103895-5	1-103655-5	1-103654-5	1-104503-
17	1.798 [45.67]	1-103896-6	1-103657-6	1-103656-6	1-103895-6	1-103655-6	1-103654-6	1-104503-0
18	1.898 [48.20]	1-103896-7	1-103657-7	1-103656-7	1-103895-7	1-103655-7	1-103654-7	1-104503-
19	1.998 [50.75]	1-103896-8	1-103657-8	1-103656-8	1-103895-8	1-103655-8	1-103654-8	1-104503-
20	2.098 [53.29]	1-103896-9	1-103657-9	1-103656-9	1-103895-9	1-103655-9	1-103654-9	1-104503-
21	2.198 [55.83]	2-103896-0	2-103657-0	2-103656-0	2-103895-0	2-103655-0	2-103654-0	2-104503-
22	2.298 [58.37]	2-103896-1	2-103657-1	2-103656-1	2-103895-1	2-103655-1	2-103654-1	2-104503-
23	2.398 [60.91]	2-103896-2	2-103657-2	2-103656-2	2-103895-2	2-103655-2	2-103654-2	2-104503-
24	2.498 [63.45]	2-103896-3	2-103657-3	2-103656-3	2-103895-3	2-103655-3	2-103654-3	2-104503-
25	2.598 [65.99]	2-103896-4	2-103657-4	2-103656-4	2-103895-4	2-103655-4	2-103654-4	2-104503-

Notes: 1. Pin assemblies are furnished with strip contacts partially inserted into housing-contacts latched into "preload" windows. Contacts are fully inserted into housings automatically when terminated with AMP application machines, or manually when terminated with AMP pistol grip hand tool.

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Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

2. Use Extraction/Lance Reset Tool No. 843477-1 to remove pin contacts.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





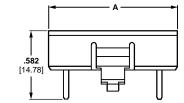
Single-Row

Material:

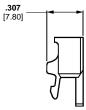
Black thermoplastic, 94V-0 rated

Technical Documents (pages 295, 296):

Product Specification 108-25034 Application Specification 114-25026

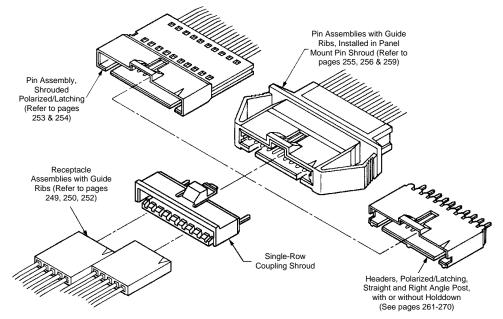


Coupling Shrouds for MTE Receptacle Assemblies with Guide Ribs



No. of Pos.	Dimension A	Single-Row Coupling Shroud
4	.485 [12.32]	103680-1
5	.585 [14.86]	103680-2
6	.685 [17.40]	103680-3
7	.785 [19.94]	103680-4
8	.885 [22.48]	103680-5
9	.985 [25.02]	103680-6
10	1.085 [27.56]	103680-7
11	1.185 [30.10]	103680-8
12	1.285 [32.64]	103680-9
13	1.385 [35.18]	1-103680-0
14	1.485 [37.72]	1-103680-1

No. of Pos.	Dimension A	Single-Row Coupling Shroud
15	1.585 [40.26]	1-103680-2
16	1.685 [42.80]	1-103680-3
17	1.785 [45.34]	1-103680-4
18	1.885 [47.88]	1-103680-5
19	1.985 [50.42]	1-103680-6
20	2.085 [52.96]	1-103680-7
21	2.185 [55.50]	1-103680-8
22	2.285 [58.04]	1-103680-9
23	2.385 [60.58]	2-103680-0
24	2.485 [63.12]	2-103680-1
25	2.585 [65.66]	2-103680-2



Typical Application of Single-Row Coupling Shroud and Mating AMPMODU MTE Products

Catalog 1307819 Revised 6-04

www.tycoelectronics.com

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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





Coupling Shrouds for MTE Receptacle Assemblies with Guide Ribs (Continued)

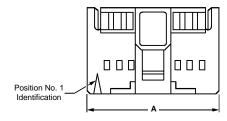
Double-Row

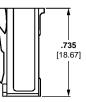
Material:

Black thermoplastic, 94V-0 rated

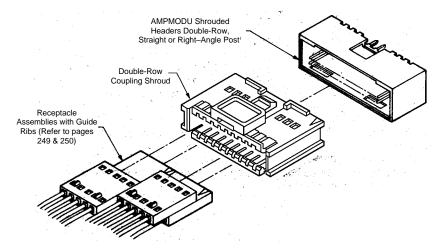
Technical Documents (pages 295, 296):

Product Specification 108-25034 **Application Specification** 114-25026





No. of Pos.	Dimension A	Double-Row Coupling Shroud
8	.585 [14.86]	103681-1
10	.685 [17.40]	103681-2
12	.785 [19.94]	103681-3
14	.885 [22.48]	103681-4
16	.985 [25.02]	103681-5
18	1.085 [27.56]	104500-1
20	1.185 [30.10]	104500-2
22	1.285 [32.64]	104500-3
24	1.385 [35.18]	104500-4
26	1.485 [37.72]	104500-5
28	1.585 [40.26]	104500-6
30	1.685 [42.80]	104500-7
32	1.785 [45.34]	104500-8
34	1.885 [47.88]	104500-9
40	2.185 [55.50]	1-104500-0
50	2.685 [68.20]	1-104500-1



¹Mating AMPMODU Double-Row Shrouded Headers must have .318 [8.08] mating post length and .150 [3.81] dimension from centerline of last post to inside of end shroud wall

Typical Application of Double-Row Coupling Shroud and Mating AMPMODU Products



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Catalog 1307819 Revised 6-04 www.tycoelectronics.com

millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





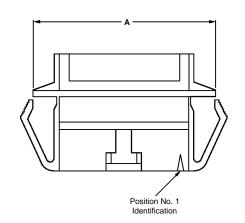
Panel Mount Pin Shrouds for MTE Pin Assemblies with Guide Ribs, Single-Row

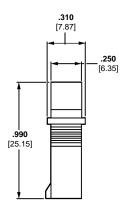
Material:

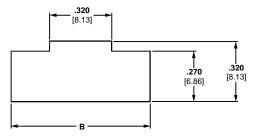
Black thermoplastic, 94V-0 rated

Technical Documents (pages 295, 296):

Product Specification 108-25034 **Application Specification** 114-25026







No. of	Dim	Panel Mount	
Pos.	Α	В	Pin Shroud
2	.735 [18.67]	.625 [15.88]	103682-1
3	.835 [21.21]	.725 [18.42]	103682-2
4	.935 [23.75]	.825 [20.96]	103682-3
5	1.035 [26.29]	.925 [23.50]	103682-4
6	1.135 [28.83]	1.025 [26.04]	103682-5
7	1.235 [31.37]	1.125 [28.58]	103682-6
8	1.335 [33.91]	1.225 [31.12]	103682-7
9	1.435 [36.45]	1.325 [33.66]	103682-8
10	1.535 [38.99]	1.425 [36.20]	103682-9
11	1.635 [41.53]	1.525 [38.74]	1-103682-0
12	1.735 [44.07]	1.625 [41.28]	1-103682-1
13	1.835 [46.61]	1.725 [43.82]	1-103682-2

No. of	Dim	Panel Mount	
Pos.	Α	В	Pin Shroud
14	1.935 [49.15]	1.825 [46.36]	1-103682-3
15	2.035 [51.69]	1.925 [48.90]	1-103682-4
16	2.135 [54.23]	2.025 [51.44]	1-103682-5
17	2.235 [56.77]	2.125 [53.98]	1-103682-6
18	2.335 [59.31]	2.225 [56.52]	1-103682-7
19	2.435 [61.85]	2.325 [59.06]	1-103682-8
20	2.535 [64.39]	2.425 [61.60]	1-103682-9
21	2.635 [66.93]	2.525 [64.14]	2-103682-0
22	2.735 [69.47]	2.625 [66.68]	2-103682-1
23	2.835 [72.01]	2.725 [69.22]	2-103682-2
24	2.935 [74.55]	2.825 [71.76]	2-103682-3
25	3.035 [77.09]	2.925 [74.30]	2-103682-4

Catalog 1307819 Revised 6-04

www.tycoelectronics.com

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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

Downloaded from Arrow.com.

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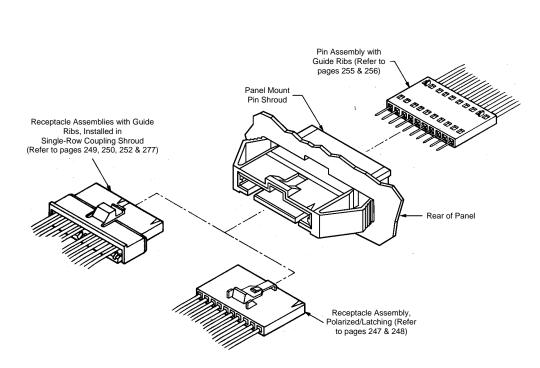
Panel Mount Pin Shrouds for MTE Pin Assemblies with Guide Ribs, Single-Row (Continued)

Material:

Black thermoplastic, 94V-0 rated

Technical Documents (pages 295, 296):

Product Specification 108-25034 **Application Specification** 114-25026



Typical Application of Panel Mount Pin Shroud and Mating AMPMODU Products

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Catalog 1307819 Revised 6-04

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



.025 [0.64] Square Straight Post (With or Without Swaged Tail)

Material and Finish:

94V-0 rated

[0.00127] nickel

[0.00127] nickel

Related Product Data: Mateable AMPMODU MTE

Receptacle Assemblies

Receptacle Assemblies with Guide

Ribs (installed in Single-Row

Technical Documents (pages

(Polarized/Latching)-

post

Products:

pages 247, 248

Catalog 82007

295, 296):

108-25034

114-25026

Coupling Shroud)-

pages 249, 250, 252, 257 **Other Mateable Connectors:** Flexible Film Connectors-

Product Specification

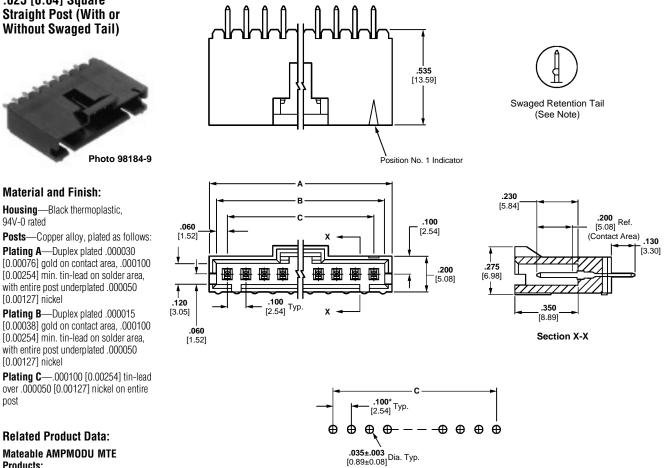
Application Specification

Housing—Black thermoplastic,

AMPMODU Interconnection System



MTE Headers, Shrouded Polarized/Latching, Single-Row .100 [2.54] Centerline



O .040±.003 [1.02±0.08] Dia. Typ. (for Retention Tails)

Recommended PC Board Hole Layout

*±.003 [±0.08]; tolerances not to accumulate within one connector pattern. Note: Swaged retention tails are provided in a minimum of two locations per header.

- MTE Headers

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Catalog 1307819 Revised 6-04

are metric equivalents.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

www.tycoelectronics.com





MTE Headers, Shrouded Polarized/Latching, Single-Row .100 [2.54] Centerline (Continued)

No. of		Dimensior	IS	Polarized/La	Polarized/Latching Header With Swage			tching Header Wi	thout Swage
Pos.	Α	В	С	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	103908-1	103670-1	103669-1	103735-1	103638-1	103639-1
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	103908-2	103670-2	103669-2	103735-2	103638-2	103639-2
4	.500 [12.70]	.420 [10.67]	.300 [7.62]	103908-3	103670-3	103669-3	103735-3	103638-3	103639-3
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	103908-4	103670-4	103669-4	103735-4	103638-4	103639-4
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	103908-5	103670-5	103669-5	103735-5	103638-5	103639-5
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	103908-6	103670-6	103669-6	103735-6	103638-6	103639-6
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	103908-7	103670-7	103669-7	103735-7	103638-7	103639-7
9	1.000 [25.40]	.920 [23.37]	.800 [20.32]	103908-8	103670-8	103669-8	103735-8	103638-8	103639-8
10	1.100 [27.94]	1.020 [25.91]	.900 [22.86]	103908-9	103670-9	103669-9	103735-9	103638-9	103639-9
11	1.200 [30.48]	1.120 [28.45]	1.000 [25.40]	1-103908-0	1-103670-0	1-103669-0	1-103735-0	1-103638-0	1-103639-0
12	1.300 [33.02]	1.220 [30.99]	1.100 [27.94]	1-103908-1	1-103670-1	1-103669-1	1-103735-1	1-103638-1	1-103639-1
13	1.400 [35.56]	1.320 [33.53]	1.200 [30.48]	1-103908-2	1-103670-2	1-103669-2	1-103735-2	1-103638-2	1-103639-2
14	1.500 [38.10]	1.420 [36.07]	1.300 [33.02]	1-103908-3	1-103670-3	1-103669-3	1-103735-3	1-103638-3	1-103639-3
15	1.600 [40.64]	1.520 [38.61]	1.400 [35.56]	1-103908-4	1-103670-4	1-103669-4	1-103735-4	1-103638-4	1-103639-4
16	1.700 [43.18]	1.620 [41.15]	1.500 [38.10]	1-103908-5	1-103670-5	1-103669-5	1-103735-5	1-103638-5	1-103639-5
17	1.800 [45.72]	1.720 [43.69]	1.600 [40.64]	1-103908-6	1-103670-6	1-103669-6	1-103735-6	1-103638-6	1-103639-6
18	1.900 [48.26]	1.820 [46.23]	1.700 [43.18]	1-103908-7	1-103670-7	1-103669-7	1-103735-7	1-103638-7	1-103639-7
19	2.000 [50.80]	1.920 [48.77]	1.800 [45.72]	1-103908-8	1-103670-8	1-103669-8	1-103735-8	1-103638-8	1-103639-8
20	2.100 [53.34]	2.020 [51.31]	1.900 [48.26]	1-103908-9	1-103670-9	1-103669-9	1-103735-9	1-103638-9	1-103639-9
21	2.200 [55.88]	2.120 [53.85]	2.000 [50.80]	2-103908-0	2-103670-0	2-103669-0	2-103735-0	2-103638-0	2-103639-0
22	2.300 [58.42]	2.220 [56.39]	2.100 [53.34]	2-103908-1	2-103670-1	2-103669-1	2-103735-1	2-103638-1	2-103639-1
23	2.400 [60.96]	2.320 [58.93]	2.200 [55.88]	2-103908-2	2-103670-2	2-103669-2	2-103735-2	2-103638-2	2-103639-2
24	2.500 [63.50]	2.420 [61.47]	2.300 [58.42]	2-103908-3	2-103670-3	2-103669-3	2-103735-3	2-103638-3	2-103639-3
25	2.600 [66.04]	2.520 [64.01]	2.400 [60.96]	2-103908-4	2-103670-4	2-103669-4	2-103735-4	2-103638-4	2-103639-4

Notes: 1. Selectively loaded headers are available, consult Tyco Electronics. 2. Use Keying Tool No. 91417-1 to remove post for keying.



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Catalog 1307819 Revised 6-04 www.tycoelectronics.com

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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





.025 [0.64] Square **Right-Angle Post**



Material and Finish:

Housing-Black thermoplastic, 94V-0 rated

Posts—Copper alloy, plated as follows: Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000100 [0.00254] min. tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000100 [0.00254] min. tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

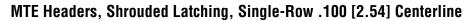
Plating C-000100 [0.00254] tin-lead over .000050 [0.00127] nickel on entire post

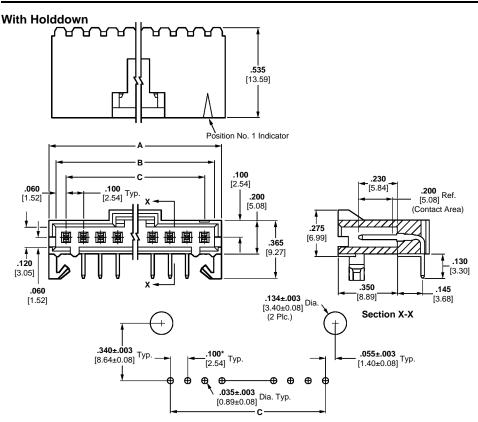


Related Product Data: Mateable AMPMODU MTE Products: **Receptacle Assemblies** (Latching)-pages 247, 248 **Receptacle Assemblies with Guide** Ribs (installed in Single-Row Coupling Shroud)pages 249, 250, 252, 257 **Other Mateable Connectors:** Flexible Film Connectors-Catalog 82007

Technical Documents (pages 295, 296):

Product Specification 108-25034 Application Specification 114-25026

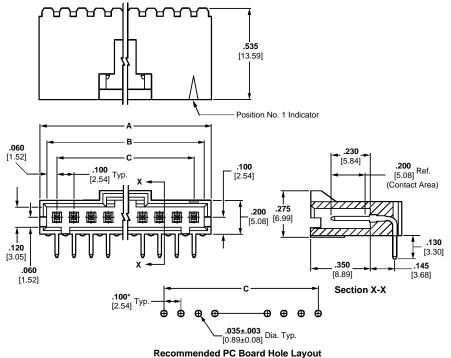




Recommended PC Board Hole Layout (PC board thickness (for Holddown Feature) is .062±.008[1.57±0.20])

*±.003 [±0.08]; tolerance not to accumulate within one connector pattern.

Without Holddown



*±.003 [±0.08]; tolerance not to accumulate within one connector pattern.

Catalog 1307819 Revised 6-04

specified. Values in brackets are metric equivalents.

Dimensions are in inches and millimeters unless otherwise to change.

Dimensions are shown for reference purposes only. Specifications subject

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 MTE Headers

263 South America: 55-11-3611-1514

Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-141-810-8967

www.tycoelectronics.com





MTE Headers, Shrouded Latching, Single-Row .100 [2.54] Centerline (Continued)

No. of		Dimension	S	Latching	Header With Ho	old Down	Latching	Header Without H	old Down
Pos.	Α	В	С	Plating A	Plating B	Plating C	Plating A	Plating B	Plating C
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	103904-1	103673-1	103672-1	103906-1	103635-1	103634-1
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	103904-2	103673-2	103672-2	103906-2	103635-2	103634-2
4	.500 [12.70]	.420 [10.67]	.300 [7.62]	103904-3	103673-3	103672-3	103906-3	103635-3	103634-3
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	103904-4	103673-4	103672-4	103906-4	103635-4	103634-4
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	103904-5	103673-5	103672-5	103906-5	103635-5	103634-5
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	103904-6	103673-6	103672-6	103906-6	103635-6	103634-6
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	103904-7	103673-7	103672-7	103906-7	103635-7	103634-7
9	1.000 [25.40]	.920 [23.37]	.800 [20.32]	103904-8	103673-8	103672-8	103906-8	103635-8	103634-8
10	1.100 [27.94]	1.020 [25.91]	.900 [22.86]	103904-9	103673-9	103672-9	103906-9	103635-9	103634-9
11	1.200 [30.48]	1.120 [28.45]	1.000 [25.40]	1-103904-0	1-103673-0	1-103672-0	1-103906-0	1-103635-0	1-103634-0
12	1.300 [33.02]	1.220 [30.99]	1.100 [27.94]	1-103904-1	1-103673-1	1-103672-1	1-103906-1	1-103635-1	1-103634-1
13	1.400 [35.56]	1.320 [33.53]	1.200 [30.48]	1-103904-2	1-103673-2	1-103672-2	1-103906-2	1-103635-2	1-103634-2
14	1.500 [38.10]	1.420 [36.07]	1.300 [33.02]	1-103904-3	1-103673-3	1-103672-3	1-103906-3	1-103635-3	1-103634-3
15	1.600 [40.64]	1.520 [38.61]	1.400 [35.56]	1-103904-4	1-103673-4	1-103672-4	1-103906-4	1-103635-4	1-103634-4
16	1.700 [43.18]	1.620 [41.15]	1.500 [38.10]	1-103904-5	1-103673-5	1-103672-5	1-103906-5	1-103635-5	1-103634-5
17	1.800 [45.72]	1.720 [43.69]	1.600 [40.64]	1-103904-6	1-103673-6	1-103672-6	1-103906-6	1-103635-6	1-103634-6
18	1.900 [48.26]	1.820 [46.23]	1.700 [43.18]	1-103904-7	1-103673-7	1-103672-7	1-103906-7	1-103635-7	1-103634-7
19	2.000 [50.80]	1.920 [48.77]	1.800 [45.72]	1-103904-8	1-103673-8	1-103672-8	1-103906-8	1-103635-8	1-103634-8
20	2.100 [53.34]	2.020 [51.31]	1.900 [48.26]	1-103904-9	1-103673-9	1-103672-9	1-103906-9	1-103635-9	1-103634-9
21	2.200 [55.88]	2.120 [53.85]	2.000 [50.80]	2-103904-0	2-103673-0	2-103672-0	2-103906-0	2-103635-0	2-103634-0
22	2.300 [58.42]	2.220 [56.39]	2.100 [53.34]	2-103904-1	2-103673-1	2-103672-1	2-103906-1	2-103635-1	2-103634-1
23	2.400 [60.96]	2.320 [58.93]	2.200 [55.88]	2-103904-2	2-103673-2	2-103672-2	2-103906-2	2-103635-2	2-103634-2
24	2.500 [63.50]	2.420 [61.47]	2.300 [58.42]	2-103904-3	2-103673-3	2-103672-3	2-103906-3	2-103635-3	2-103634-3
25	2.600 [66.04]	2.520 [64.01]	2.400 [60.96]	2-103904-4	2-103673-4	2-103672-4	2-103906-4	2-103635-4	2-103634-4

Notes: 1. Selectively loaded headers are available, consult Tyco Electronics. 2. Use Keying Tool No. 91417-1 to remove post for keying.



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Catalog 1307819 Revised 6-04

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967





MTE Headers, Shrouded Latching, Single-Row .100 [2.54] Centerline





Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Posts-Copper alloy, plated .000100-.000200 [0.00254-0.00508] tin-lead over .000050 [0.00127] nickel on entire post

Related Product Data:

Mateable AMPMODU MTE Products:

Receptacle Assemblies

(Polarized/Latching)pages 247, 248

Receptacle Assemblies with Guide Ribs (installed in Single-Row Coupling Shroud)pages 249, 250, 252, 257

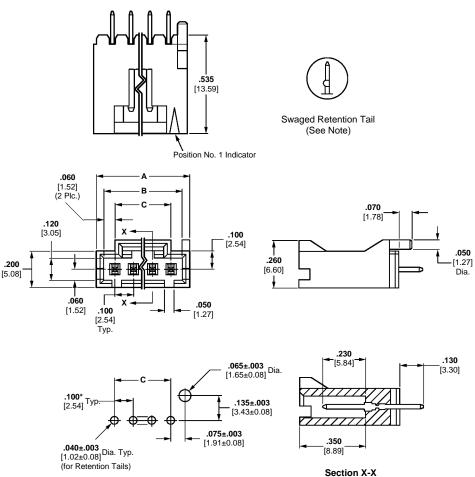
Other Mateable Connectors: Flexible Film Connectors-

Catalog 82007

Technical Documents (pages 295, 296):

Product Specification

108-25034 **Application Specification** 114-25026



Recommended PC Board Hole Layout

*±.003 [±0.08]; tolerances not to accumulate within one connector pattern.

Note: Swaged retention tails are provided in a minimum of two locations per header.

No. of			Latching	
Pos.	Α	В	С	Header
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	104450-1
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	104450-2
4	.500 [12.70]	.420 [10.67]	.300 [7.62]	104450-3
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	104450-4
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	104450-5
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	104450-6
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	104450-7
9	1.000 [25.40]	.920 [23.37]	.800 [20.32]	104450-8
10	1.100 [27.94]	1.020 [25.91]	.900 [22.86]	104450-9

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Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





MTE Headers, High-Temp, Shrouded Polarized/Latching, Single-Row .100 [2.54] Centerline

.025 [0.64] Square Straight Post (With Swaged Tails and PC Board Orientation)



Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Posts—Copper alloy, duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] matte tin-lead on solder tail, with entire post underplated .000050 [0.00127] nickel

Related Product Data:

Mateable AMPMODU MTE Products:

Receptacle Assemblies with Guide Ribs (installed in Single-Row Coupling Shroud) pages 249, 250, 252, 257

Receptacle Assemblies (Polarized Latching)—pages 247, 248

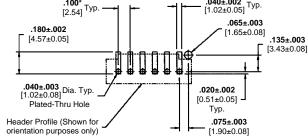
Other Mateable Connectors:

Flexible Film Connectors— Catalog 82007

Technical Documents (pages 295, 296):

Product Specification 108-25034 Application Specification 114-25026

535 [13.59] Swaged Retention Tail (See Note) Position No. 1 Indicator **.230** [5.84] .100 [5.08] Ref. .060 [2.54] [1.52] (Contact Area) .262 [6.65] 圄 圄 7 .120 .200 .100 Typ. [3.05] [5.08] .350 [2.54] .060 .130 [8.8] [1.52] [3.30] Χ -Section X-X .040±.002 [1.02±0.05] Typ. .100*



Recommended PC Board Hole Layout (Stencil Thickness = .010 [0.25])

*±.003 [±0.08] tolerance not to accumulate within one connector pattern

No. of		Dimensions		Polarized/Latching
Pos.	Α	В	С	Header, High-Temp
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	104809-1
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	104809-2
4	.500 [12.70]	.420 [10.67]	.300 [7.62]	104809-3
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	104809-4
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	104809-5
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	104809-6
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	104809-7
9	1.000 [25.40]	.920 [23.37]	.800 [20.32]	104809-8
10	1.100 [27.94]	1.020 [25.91]	.900 [22.86]	104809-9
11	1.200 [30.48]	1.120 [28.45]	1.000 [25.40]	1-104809-0
12	1.300 [33.02]	1.220 [30.99]	1.100 [27.94]	1-104809-1



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Catalog 1307819 Revised 6-04

specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

millimeters unless otherwise

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



.025 [0.64] Square Straight Post (With or Without Swaged Tail)

Material and Finish:

temperature, 94V-0 rated

nickel

Products:

252, 257

pages 247, 248

Catalog 82007

295, 296):

108-25034

114-25026

Housing-Black thermoplastic, high

Posts—Copper alloy, duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] matte tin-lead on solder tail, with entire

post underplated .000050 [0.00127]

Related Product Data:

Mateable AMPMODU MTE

Receptacle Assemblies

(Polarized/Latching)-

Receptacle Assemblies with Guide

Coupling Shroud)—pages 249, 250,

Ribs (installed in Single-Row

Other Mateable Connectors: Flexible Film Connectors—

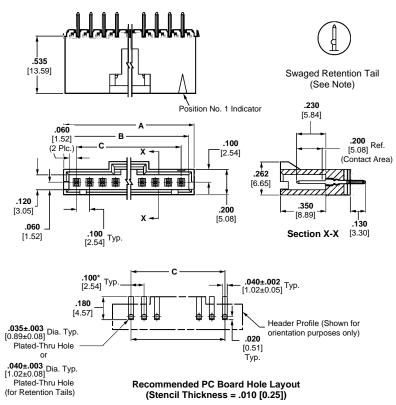
Technical Documents (pages

Product Specification

Application Specification



MTE Headers, Shrouded High-Temp, Polarized/Latching (Thru-Hole, SMT Compatible) Single-Row, .100 [2.54] Centerline



*±.003 [±0.08]; tolerance not to accumulate within one connector pattern.

Note: Swaged retention tails in Holddown versions only. Retention tails are provided in a minimum of two locations per header.

No. of		Dimensions	Straight Header			
Pos.	Α	В	С	With Swage	Without Swage	
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	104362-1	104363-1	
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	104362-2	104363-2	
4	.500 [12.70]	.420 [10.67]	.300 [7.62]	104362-3	104363-3	
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	104362-4	104363-4	
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	104362-5	104363-5	
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	104362-6	104363-6	
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	104362-7	104363-7	
9	1.000 [25.40]	.920 [23.37]	.800 [20.32]	104362-8	104363-8	
10	1.100 [27.94]	1.020 [25.91]	.900 [22.86]	104362-9	104363-9	
11	1.200 [30.48]	1.120 [28.45]	1.000 [25.40]	1-104362-0	1-104363-0	
12	1.300 [33.02]	1.220 [30.99]	1.100 [27.94]	1-104362-1	1-104363-1	
13	1.400 [35.56]	1.320 [33.53]	1.200 [30.48]	1-104909-2	1-104910-2	
14	1.500 [38.10]	1.420 [36.07]	1.300 [33.02]	1-104909-3	1-104910-3	
15	1.600 [40.64]	1.520 [38.61]	1.400 [35.56]	1-104909-4	1-104910-4	
16	1.700 [43.18]	1.620 [41.15]	1.500 [38.10]	1-104909-5	1-104910-5	
17	1.800 [45.72]	1.720 [43.69]	1.600 [40.64]	1-104909-6	1-104910-6	
18	1.900 [48.26]	1.820 [46.23]	1.700 [43.18]	1-104909-7	1-104910-7	
19	2.000 [50.80]	1.920 [48.77]	1.800 [45.72]	1-104909-8	1-104910-8	
20	2.100 [53.34]	2.020 [51.31]	1.900 [48.26]	1-104909-9	1-104910-9	
21	2.200 [55.88]	2.120 [53.85]	2.000 [50.80]	2-104909-0	2-104910-0	
22	2.300 [58.42]	2.220 [56.39]	2.100 [53.34]	2-104909-1	2-104910-1	
23	2.400 [60.96]	2.320 [58.93]	2.200 [55.88]	2-104909-2	2-104910-2	
24	2.500 [63.50]	2.420 [61.47]	2.300 [58.42]	2-104909-3	2-104910-3	
25	2.600 [66.04]	2.520 [64.01]	2.400 [60.96]	2-104909-4	2-104910-4	

Note: Use Keying Tool No. 91417-1 to remove post for keying.

Catalog 1307819 Revised 6-04

www.tycoelectronics.com specified. Values in brackets are metric equivalents.

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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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.535



MTE Headers, Shrouded High-Temp, Polarized/Latching (Thru-Hole, SMT Compatible) Single-Row, .100 [2.54] Centerline (Continued)

.025 [0.64] Square Right-Angle Post (With Holddown)



Material and Finish:

Housing—Black thermoplastic, high temperature, 94V-0 rated

Posts—Copper alloy, duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] matte tin-lead on solder tail, with entire post underplated .000050 [0.00127] nickel

Related Product Data:

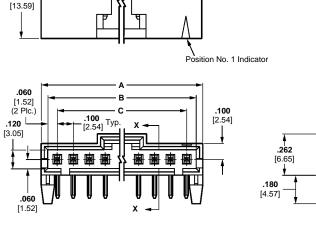
Mateable AMPMODU MTE Products:

Receptacle Assemblies (Polarized/Latching) pages 247, 248

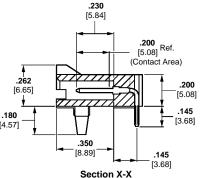
Receptacle Assemblies with Guide Ribs (installed in Single-Row Coupling Shroud)—pages 249, 250, 252, 257

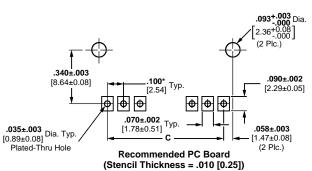
Other Mateable Connectors: Flexible Film Connectors—

Catalog 82007



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*±.003 [±0.08]; tolerance is not to accumulate within one connector pattern.

Technical Documents (pages 295, 296):

Product Specification 108-25034

Application Specification 114-25026

No. of	Dimensions			Right-Angle	No. of	Dimensions			Right-Angle Header	
Positions	Α	В	С	Header with Hold Down		Positions	Α	В	С	with Hold Down
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	104361-1	14	1.500 [38.10]	1.420 [36.07]	1.300 [33.02]	1-104361-3	
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	104361-2	15	1.600 [40.64]	1.520 [38.61]	1.400 [35.56]	1-104361-4	
4	.500 [12.70]	.420 [10.67]	.300 [7.62]	104361-3	16	1.700 [43.18]	1.620 [41.15]	1.500 [38.10]	1-104361-5	
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	104361-4	17	1.800 [45.72]	1.720 [43.69]	1.600 [40.64]	1-104361-6	
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	104361-5	18	1.900 [48.26]	1.820 [46.23]	1.700 [43.18]	1-104361-7	
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	104361-6	19	2.000 [50.80]	1.920 [48.77]	1.800 [45.72]	1-104361-8	
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	104361-7	20	2.100 [53.34]	2.020 [51.31]	1.900 [48.26]	1-104361-9	
9	1.000 [25.40]	.920 [23.37]	.800 [20.32]	104361-8	21	2.200 [55.88]	2.120 [53.85]	2.000 [50.80]	2-104361-0	
10	1.100 [27.94]	1.020 [25.91]	.900 [22.86]	104361-9	22	2.300 [58.42]	2.220 [56.39]	2.100 [53.34]	2-104361-1	
11	1.200 [30.48]	1.120 [28.44]	1.000 [25.40]	1-104361-0	23	2.400 [60.96]	2.320 [58.93]	2.200 [55.88]	2-104361-2	
12	1.300 [33.02]	1.220 [30.99]	1.100 [27.94]	1-104361-1	24	2.500 [63.50]	2.420 [61.47]	2.300 [58.42]	2-104361-3	
13	1.400 [35.56]	1.320 [33.53]	1.200 [30.48]	1-104361-2	25	2.600 [66.04]	2.520 [64.01]	2.400 [60.96]	2-104361-4	

Catalog 1307819 Revised 6-04

Revised 6-04 millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



Тур



Electronics



Material and Finish:

Housing—High temperature thermoplastic, Color - Black

Posts-Copper Alloy, plated as follows:

Plating A—Duplex plated .000030 [.00076] gold on contact area, .000100 [.00254] min. tin-lead on solder area, with entire post underplated .000050 [.00127] nickel.

Plating B—Duplex plated .000015 [.00038] gold on contact area, .000100 [.00254] min. tin-lead on solder area, with entire post underplated .000050 [.00127] nickel

Plating C-.000100 [.00254] tin lead over .000050 [.00127] nickel on entire post

Recommended PC Board Layout

(Refer to MTE Application Spec. 114-25026 for Stencil Aperture Layout Using .006 [0.152] or .008 [0.203] Stencil Thickness)

Related Product Data:

Mateable AMPMODU MTE Products:

Receptacle Assemblies (Polarized/Latching)pages 247, 248

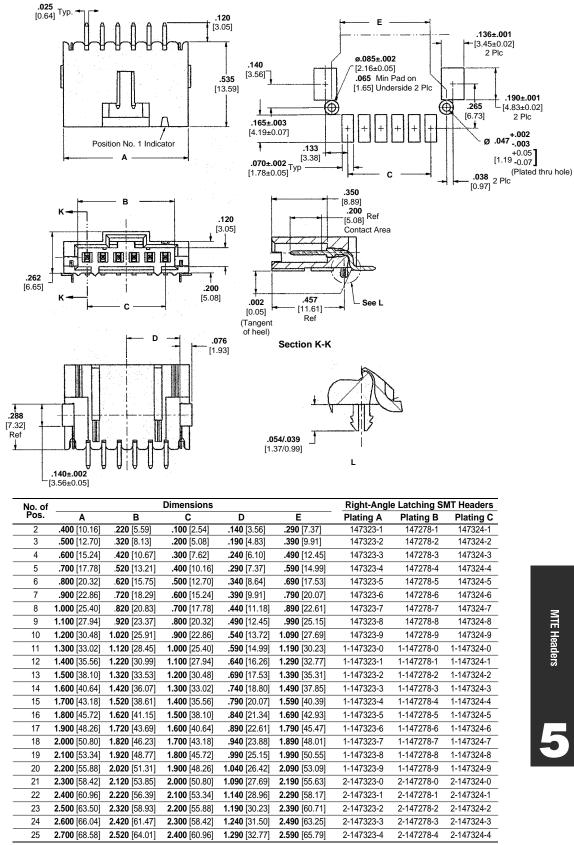
Receptacle Assemblies with Guide Ribs (installed in Single-Row Coupling Shroud)pages 249, 250, 252, 257

Other Mateable Connectors: Flexible Film Connectors-

Catalog 82007

Technical Documents (pages 295, 296): **Product Specification** 108-25034 **Application Specification** 114-25026





Catalog 1307819 Revised 6-04

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

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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MTE Headers, Vertical, Polarized/Latching, Surface Mount

.075



.025 Tvp

Material and Finish:

Housing—High temperature thermoplastic, Color - Black, 94V-0 rated

Posts—Brass, plated as follows:

Plating A—Duplex plated .000030 [.00076] gold on contact area, .000100 [.00254] min. tin-lead on solder area, with entire post underplated .000050 [.00127] nickel.

Plating B—Duplex plated .000015 [.00038] gold on contact area, .000100 [.00254] min. tin-lead on solder area, with entire post underplated .000050 [.00127] nickel.

Plating C—.000100 [.00254] tin lead over .000050 [.00127] nickel on entire contact/post

Recommended PC Board Layout

(Refer to MTE Application Spec. 114-25026 for Stencil Aperature Layout using .006 [0.152] or .008 [0.203] stencil thickness

Related Product Data: Mateable AMPMODU MTE Products: Receptacle Assemblies (Polarized/Latching) pages 247, 248 Receptacle Assemblies with Guide Ribs (installed in Single-Row Coupling Shroud) pages 249, 250, 252, 257 Other Mateable Connectors:

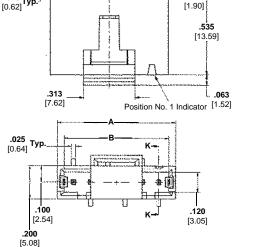
Flexible Film Connectors— Catalog 82007

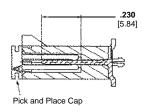
Technical Documents (pages 295, 296): Product Specification 108-25034 Application Specification 114-25026



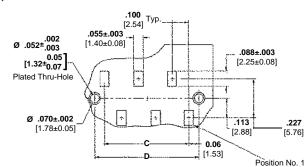
Catalog 1307819 Revised 6-04

www.tycoelectronics.com are metric equivalents.





Section K-K



No. of		D	imensions				Vertical SMT He	aders
Pos.	Α	В	С	D	E	Plating A	Plating B	Plating C
2	.300 [7.62]	.220 [5.59]	.100 [2.54]	.220 [5.60]	.110 [2.80]	1375583-1	1375582-1	1375549-1
3	.400 [10.16]	.320 [8.13]	.200 [5.08]	.320 [8.14]	.160 [4.07]	1375583-2	1375582-2	1375549-2
4	.500 [12.70]	.420 [10.67]	.300[7.62]	.420 [10.68]	.210 [5.34]	1375583-3	1375582-3	1375549-3
5	.600 [15.24]	.520 [13.21]	.400 [10.16]	.520 [13.22]	.260 [6.61]	1375583-4	1375582-4	1375549-4
6	.700 [17.78]	.620 [15.75]	.500 [12.70]	.620 [15.76]	.310 [7.88]	1375583-5	1375582-5	1375549-8
7	.800 [20.32]	.720 [18.29]	.600 [15.24]	.720 [18.30]	.360 [9.15]	1375583-6	1375582-6	1375549-0
8	.900 [22.86]	.820 [20.83]	.700 [17.78]	.820 [20.84]	.410 [10.42]	1375583-7	1375582-7	1375549-
9	1.000[25.40]	.920 [23.37]	.800[20.32]	.920 [23.38]	.460 [11.69]	1375583-8	1375582-8	1375549-8
10	1.100[27.94]	1.020[25.91]	.900 [22.86]	1.020[25.92]	.510 [12.96]	1375583-9	1375582-9	1375549-
11	1.200[30.48]	1.120[28.45]	1.000[25.40]	1.120[28.46]	.560 [14.23]	1-1375583-0	1-1375582-0	1-1375549-
12	1.300[33.02]	1.220[30.99]	1.100[27.94]	1.220[31.00]	.610 [15.50]	1-1375583-1	1-1375582-1	1-1375549-
13	1.400[35.56]	1.320[33.53]	1.200[30.48]	1.320[33.54]	.660 [16.77]	1-1375583-2	1-1375582-2	1-1375549-3
14	1.500 [38.10]	1.420[36.07]	1.300[33.02]	1.420[36.08]	.710 [18.04]	1-1375583-3	1-1375582-3	1-1375549-
15	1.600 [40.64]	1.520[38.61]	1.400[35.56]	1.520[38.62]	.760 [19.31]	1-1375583-4	1-1375582-4	1-1375549-
16	1.700 [43.18]	1.620[41.15]	1.500 [38.10]	1.620 [41.16]	.810 [20.58]	1-1375583-5	1-1375582-5	1-1375549-
17	1.800 [45.72]	1.720[43.69]	1.600[40.64]	1.720[43.70]	.860 [21.85]	1-1375583-6	1-1375582-6	1-1375549-
18	1.900[48.26]	1.820[46.23]	1.700[43.18]	1.820[46.24]	.910 [23.12]	1-1375583-7	1-1375582-7	1-1375549-
19	2.000 [50.80]	1.920[48.77]	1.800[45.72]	1.920[48.78]	.960 [24.39]	1-1375583-8	1-1375582-8	1-1375549-
20	2.100 [53.34]	2.020[51.31]	1.900[48.26]	2.020 [51.32]	1.010[25.66]	1-1375583-9	1-1375582-9	1-1375549-
21	2.200 [55.88]	2.120 [53.85]	2.000 [50.80]	2.120[53.86]	1.060[26.93]	2-1375583-0	2-1375582-0	2-1375549-
22	2.300 [58.42]	2.220 [56.39]	2.100 [53.34]	2.220 [56.40]	1.110[28.20]	2-1375583-1	2-1375582-1	2-1375549-
23	2.400 [60.96]	2.320 [58.93]	2.200 [55.88]	2.320 [58.94]	1.160[29.47]	2-1375583-2	2-1375582-2	2-1375549-2
24	2.500 [63.50]	2.420 [61.47]	2.300 [58.42]	2.420 [61.48]	1.210[30.74]	2-1375583-3	2-1375582-3	2-1375549-
25	2.600 [66.04]	2.520[64.01]	2.400[60.96]	2.520[64.02]	1.260[32.01]	2-1375583-4	2-1375582-4	2-1375549-

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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

MTE Headers



Colored Polarized Latching Receptacle Mates to Colored Vertical Header with PC Board orientation:

Material and Finish:

Housing – Color Thermoplastic, 94V-0 rated

Contact/post – Copper alloy, plated .000100-.000200 [0.00254-0.00508] tin-lead over .000050 [0.00127] nickel on entire contact/post.

Technical Documents (pages 295, 296):

Product Specification 108-25034

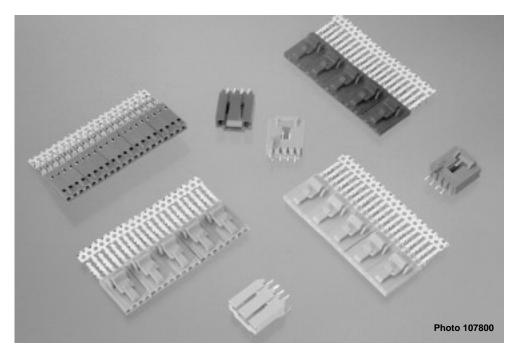
Application Specification 114-25026

Refer to pages 247 and 265 for line art and customer drawings for specific dimensions.

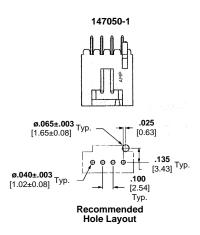
Note: The .065+/-.003 [1.65+/-0.08] diameter hole, used for PCB orientation, changes in position for headers listed below.

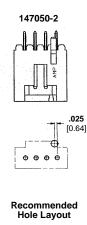


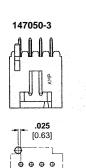
Colored MTE Interconnection System-4 position only



Color	Strip Form Housing Quantities	Receptacle 30-26 AWG [0.05-0.15mm ²] Wire	Mates with	Header	Unloaded Receptacle Housing
Natural/ Beige	5	147048-1		147050-1	147047-1
Green	5	147048-2		147050-2	147047-2
Blue	5	147048-3		147050-3	147047-3
Yellow	5	147048-4		147050-4	147047-4







Recommended Hole Layout

Recommended Hole Layout



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Colored MTE Interconnection System

PC Board Orientation Feature

Catalog 1307819 Revised 6-04

www.tycoelectronics.com

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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



Short Point Receptacles

Technical Documents (page

Product Specification

Application Specification

108-1472, 108-1472-1

295, 296):

114-25038

Interchangeable Contacts, Wire Crimp (Snap-In)

Material and Finish:

Copper alloy C7025, plated as follows: Plating A—Duplex plated .000030 [0.00076] min. gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] min. nickel

Plating B—Duplex plated .000015 [0.00038] min. gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] min. nickel

bright tin-lead over .000050 [0.00127] min. nickel on entire contact



Keying Plug Part No. 104072-1 Ten plugs are supplied per strip. Order quantity reflects the number of strips required.



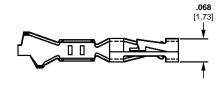
Extraction/Lance Reset Tool No. 843477-1

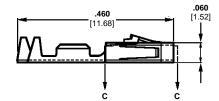
Related Product Data:

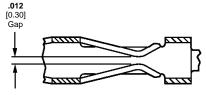
Performance Characteristicspage 238 Housings used in-

Short Point-pages 240, 241 AMPMODU MTE Unloaded Housings—pages 245-250

Application Toolingpages 289, 290







Section C - C

Heavy Duty Miniature Applicator for Wire Size Ins. Contact Part No. Hand Applicator for AMP-O-MATIC Range Dia. Finish (Standard Pressure) Tool AMP-O-LECTRIC Stripper/Crimper AWG Range Nos. [mm²] Strip Form Loose Piece Machine* Machine Plating A 104481-4 104481-8 **.025-.060** 0.64-1.52 Plating B 32-28 0.03-0.08 104481-3 104481-7 567296-2 466980-1 91518-1 Plating C 104481-2 104481-6 Plating A 104480-4 104480-9 .025-.060 26-22 0.13-0.3 Plating B 104480-3 104480-8 567297-2 466981-1 91518-1 0.64-1.52 Plating C 104480-2 104480-7 Plating A 104479-4 104479-7 .025-.060 24-20 0.2-0.5 Plating B 567298-2 466982-1 91551-1 104479-3 104479-6 0.64-1.52 Plating C 104479-2 104479-5

*For use with Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATOR lead making machines. Note: These wire crimp contacts can be intermixed with insulation displacement crimp contacts.

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millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425





Interchangeable Contacts, Wire Crimp (Snap-In) (Continued)

Material and Finish:

Phosphor bronze, plated as follows: Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000030 [0.00076] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Pins

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000030 [0.00076] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating C—.000100 [0.00254] min. bright tin-lead over .000050 [0.00127] nickel on entire contact



Extraction/Lance Reset Tool No. 843477-1

Related Product Data:

Performance Characteristicspage 238

AMPMODU MTE Unloaded Housings—pages 245-250 Application Tooling-

pages 289, 290 Technical Documents (page 295, 296):

Product Specification 108-25034

Application Specification 114-25026

Wire Size Range		Ins. Dia.			Miniature Applicator	Applicator for AMP-O-MATIC Stripper/	Hand Tool	
AWG	[mm²]	Range		Strip Form	Loose Piece	for AMP-O-LECTRIC Machine*	Crimper Machine	Nos.
			Plating A	104506-6	104506-7			
32-28	0.03-0.08	.025054 - 0.64-1.37 _			—	_	58342-2	
		0.011.07	Plating C	104506-2	104506-3			
		026 054	Plating A	104505-6	104505-7			
26-22	26-22 0.14-0.32	.036054 - 0.91-1.37 _	Plating B	104505-4	104505-5	567239-2	466983-1	91531-1
		0.01 1.07 _	Plating C	104505-2	104505-3			

*For use with AMP-O-LECTRIC Model "K" machines. Call Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATORIead making machines. Note: These wire crimp contacts can be intermixed with insulation displacement crimp contacts.

Catalog 1307819 Revised 6-04

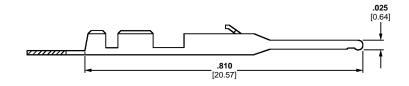
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

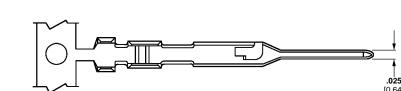
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

.025 [0.64]





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Product Facts

- Full line of mass termination tooling offers lowest installed cost for most production needs
- Dual cantilever beams with anti-overstress features provide redundant contact of mating post and limit beam deflection, preventing permanent deformation
- Redundant insulation displacement slots provide for maximum reliability
- Integral wire strain relief on contact prevents wire motion from being transmitted to wire termination areas
- Built-in contact post stop protects terminated wire from being disturbed by over-insertion of mating post, prevents wire from entering contact area and positively limits mating connector depth
- Insulation displacement contacts and crimp, snap-in contacts are interchangeable
- Complete serviceability with replacement contacts
- Cover styles include low profile (polarized, nonpolarized, latching and ejection) and standard profile (hermaphroditic and ejection)
- Connector housings may be stacked end-to-end within one pair of covers. All varieties of covers in this catalog are suitable for multiple housing stacking applications similar to the example illustrated in the photograph to the right
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR 7189

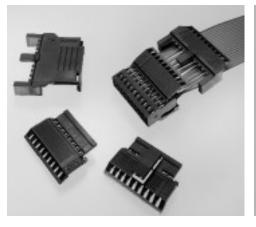


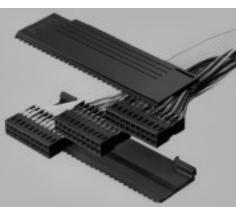


Dimensions are in inches and

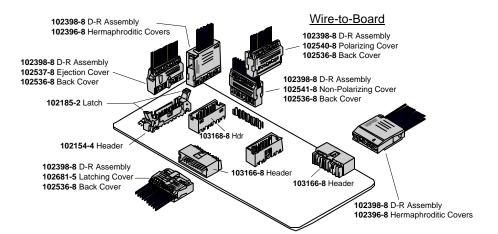
millimeters unless otherwise







Typical Application of End-to-End Stacking



The AMPMODU MT and Shielded MT Interconnection System offers labor and cost savings through mass termination technology, while maintaining the timeproven reliability of the AMPMODU product family. The MT system is comprised of preloaded, double-row receptacle assemblies with snap-on covers and a variety of shielding hardware and accessories. The system is supported by a full line of mass termination tooling to meet virtually most production needs.

The insulation displacement contact, the heart of the MT

system, features a mating interface that is the same as the conventional AMPMODU crimp, snap-in contact, featuring dual cantilever beams, built-in overstress protection and a completely enclosed "box" design.

To reduce EMI/ESD (electromagnetic interference/ electrostatic discharge) at the input-output interface, add-on metal shields can be used to convert standard MT connectors to shielded MT connectors.

Performance Characteristics

Contact Current Rating—3 amperes for single contact in free air. (Amperage could vary due to ambient temperature, wire size and duty cycles.)

Operating Temperature -65°C to +105°C

Termination Resistance— 12 milliohms max.

Max. Mating Force— High pressure - 26 oz. [7.23 N] Standard pressure - 9 oz. [2.50 N]

Min. Unmating Force— High pressure - 5 oz. [1.39 N] Standard pressure - 1.5 oz. [0.417 N] Contact Retention in Housing— 5 lb. [22.24 N] per contact min.

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specified. Values in brackets www.tycoelectronics.com are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967





Housings Pre-loaded with Standard Pressure Contacts



Material and Finish:

Housing—Black thermoplastic, flame retardant

Contacts—Copper alloy, duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Related Product Data:

Mateable Connectors—pages 133, 139, 143, 147, 283

Cable Insulation Wall Thickness-.015 [0.39] max.

Cable Insulation Diameter-.050 [1.27] max.

Mating Post Length-

.222-.273 [5.64-6.94] max. Performance Characteristics-

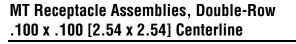
page 274 Replacement Contacts—page 284

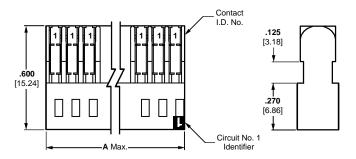
Connector Coverspages 277, 278 Application Toolingpages 290-293

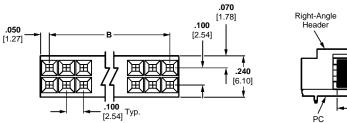
Technical Documents (pages 295, 296):

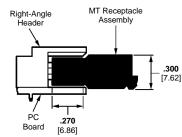
Product Specification 108-25015, 108-25018, 108-25030 **Application Specification** 114-25032

Instruction Sheet 408-6532









			F	Part Nos. (Stamped))	
No. of	Dimer	nsions		Wire Size Range		Unloaded
Pos.	Α	В	30-26 AWG [0.05-0.15 mm ²]	26-22 AWG [0.12-0.3 mm ²]	22-20 AWG [0.3-0.6 mm ²]	Housings
6	.300 [7.62]	.200 [5.08]	102393-1	102398-1	102448-1	102394-1
8	.400 [10.16]	.300 [7.62]	102393-2	102398-2	102448-2	102394-2
10	.500 [12.70]	.400 [10.16]	102393-3	102398-3	102448-3	102394-3
12	.600 [15.24]	.500 [12.70]	102393-4	102398-4	102448-4	102394-4
14	.700 [17.78]	.600 [15.24]	102393-5	102398-5	102448-5	102394-5
16	.800 [20.32]	.700 [17.78]	102393-6	102398-6	102448-6	102394-6
18	.900 [22.86]	.800 [20.32]	102393-7	102398-7	102448-7	102394-7
20	1.000 [25.40]	.900 [22.86]	102393-8	102398-8	102448-8	102394-8
22	1.100 [27.94]	1.000 [25.40]	102393-9	102398-9	102448-9	102394-9
24	1.200 [30.48]	1.100 [27.94]	1-102393-0	1-102398-0	1-102448-0	1-102394-0
26	1.300 [33.02]	1.200 [30.48]	1-102393-1	1-102398-1	1-102448-1	1-102394-1
28	1.400 [35.56]	1.300 [33.02]	1-102393-2	1-102398-2	1-102448-2	1-102394-2
30	1.500 [38.10]	1.400 [35.56]	1-102393-3	1-102398-3	1-102448-3	1-102394-3
32	1.600 [40.64]	1.500 [38.10]	1-102393-4	1-102398-4	1-102448-4	1-102394-4
34	1.700 [43.18]	1.600 [40.64]	1-102393-5	1-102398-5	1-102448-5	1-102394-5
40	2.000 [50.80]	1.900 [48.26]	1-102393-8	1-102398-8	1-102448-8	1-102394-8
50	2.500 [63.50]	2.400 [60.96]	2-102393-3	2-102398-3	2-102448-3	2-102394-3
60	3.000 [76.20]	2.900 [73.66]	2-102393-8	2-102398-8	2-102448-8	2-102394-8
64	3.200 [81.28]	3.100 [78.74]	3-102393-0	3-102398-0	3-102448-0	3-102394-0

Note: Contact Extraction/Lance Reset Tool No. 843477-3, see page 284.

Keying Plugs



Part No. 86286-1 (Plugs into receptacle contact)

Material-Natural color nylon

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millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

Part No. 87077-2 (Plugs directly into housing)

> USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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MT Receptacle Assemblies, Double-Row .100 x .100 [2.54 x 2.54] Centerline

Housings Pre-loaded with **High Pressure Contacts**



Material and Finish:

Housing—Black thermoplastic, flame retardant

Contacts—Copper alloy, duplex plated .000030 [0.00076] gold on contact area, .000050 [0.00127] min. tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Related Product Data:

Mateable Connectors—pages 133, 139, 143, 147, 283

Cable Insulation Wall Thickness-.015 [0.39] max.

Cable Insulation Diameter-.050 [1.27] max.

Mating Post Length-.200-.273 [5.64-6.94] max.

Performance Characteristicspage 274

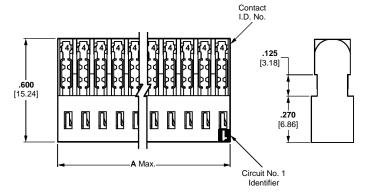
Replacement Contacts—page 284 Connector Covers-

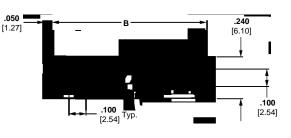
pages 277, 278 Application Tooling pages 290-293

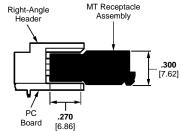
Technical Documents (pages 295, 296):

Product Specification 108-25015, 108-25018, 108-25030 Application Specification 114-25032 Instruction Sheet

408-6532







				Part Nos. (Stamped*)	
No. of	Dime	nsions		Wire Size Range	
Pos.	Α	В	30-26 AWG [0.05-0.15 mm ²]	26-22 AWG [0.12-0.3 mm ²]	22-20 AWG [0.3-0.6 mm ²]
6	.300 [7.62]	.200 [5.08]	102693-1	102694-1	102695-1
8	.400 [10.16]	.300 [7.62]	102693-2	102694-2	102695-2
10	.500 [12.70]	.400 [10.16]	102693-3	102694-3	102695-3
12	.600 [15.24]	.500 [12.70]	102693-4	102694-4	102695-4
14	.700 [17.78]	.600 [15.24]	102693-5	102694-5	102695-5
16	.800 [20.32]	.700 [17.78]	102693-6	102694-6	102695-6
18	.900 [22.86]	.800 [20.32]	102693-7	102694-7	102695-7
20	1.000 [25.40]	.900 [22.86]	102693-8	102694-8	102695-8

*Cavity identification — first cavity (one side); Tyco Electronics Part No. and date code stamped on housing where size permits. Note: Contact Extraction/Lance Reset Tool No. 843477-3, see page 284.

Keying Plugs



Part No. 86286-1 (Plugs into receptacle contact)

Material—Natural color nylon

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millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

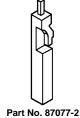
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

Downloaded from Arrow.com.





(Plugs directly into housing)



Material:

Black thermoplastic, flame retardant

Related Product Data:

For use on Double-Row MT Receptacle Assemblies—pages 275, 276

Technical Documents (pages 295, 296):

Product Specification 108-25015, 108-25018, 108-25030

Application Specification 114-25032

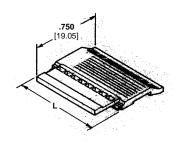
Instruction Sheet 408-6532

Note: See page 278 for Low Profile Cover Part Nos.

Low Profile Covers for Double-Row MT Receptacle Assemblies

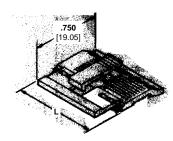
Front Covers

A - Polarizing Cover (Mates with AMPMODU 4-sided shrouded headers. Refer to pages 133, 139, 143, 147.)

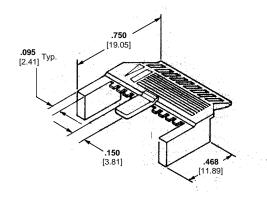


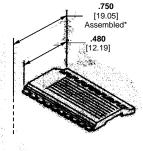
C - Ejection Cover (Mates with AMP-LATCH universal ejection style pin headers equipped with latching ears, Part No. 102185-2 (with push tabs) or Part No. 102312-2 (without push tabs), see AMP Catalog 82012.

B - Latching Cover (Mates with AMPMODU 4-sided shrouded headers with extraction slot. Refer to pages 133, 139, 143, 147.)



D - Non-Polarizing Cover (Designed for use with shielded connectors, pages 280 & 281; or for non-polarizing applications.)

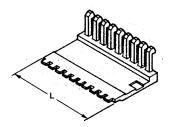




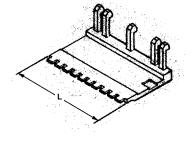
*Dimension applies to cover when installed on connector housing.

Back Covers

E - For Shielding and Non-Shielding Applications (For use with any low profile cover.)



F - For Shielding Applications (For use with Non-Polarizing Cover only.)



Catalog 1307819 Revised 6-04

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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.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



Material:

Black thermoplastic, flame retardant

Related Product Data:

For use on Double-Row MT Receptacle Assemblies-pages 275, 276

Technical Documents (pages 295, 296):

Product Specification 108-25015, 108-25018, 108-25030 **Application Specification**

114-25032 Instruction Sheet 408-6532

Standard Profile Covers for Double-Row MT Receptacle Assemblies

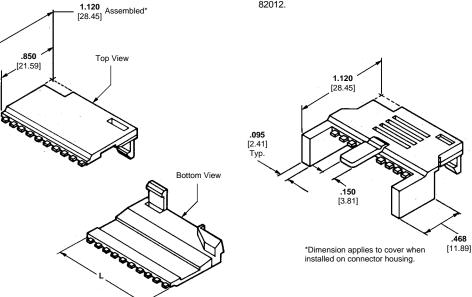
G - Hermaphroditic Cover

.850

[21.59]

(Two hermaphroditic covers can be used or one hermaphroditic cover can be used with an H Ejection Cover.)

H - Ejection Cover (Mates with AMP-LATCH universal ejection style pin headers equipped with latching ears, Part No. 102185-2 (with push tabs) or Part No. 102312-2 (without push tabs), see Tyco Electronics Catalog 82012.



				Low P	rofile Covers			Standard Profile Covers	
			Front	Covers		Back	Covers		
No. of Pos.	Dimension L	A Polarizing	B Latching	C Ejection	D Non-Polarizing	E Shielding and Non-Shielding Applications	F Shielding Applications	G Hermaphroditic	H Ejection
6	.300 [7.62]	102540-1	_	102537-1	102541-1	102536-1	_	102396-1	_
8	.400 [10.16]	102540-2		102537-2	102541-2	102536-2		102396-2	_
10	.500 [12.70]	102540-3		102537-3	102541-3	102536-3		102396-3	_
12	.600 [15.24]	102540-4	102681-1	102537-4	102541-4	102536-4	102823-5	102396-4	—
14	.700 [17.78]	102540-5	102681-2	102537-5	102541-5	102536-5	102823-6	102396-5	—
16	.800 [20.32]	102540-6	102681-3	102537-6	102541-6	102536-6	102823-7	102396-6	—
18	.900 [22.86]	102540-7	102681-4	102537-7	102541-7	102536-7	102823-1	102396-7	—
20	1.000 [25.40]	102540-8	102681-5	102537-8	102541-8	102536-8	102823-4	102396-8	103268-6
22	1.100 [27.94]	102540-9	102681-6	102537-9	102541-9	102536-9	102823-8	102396-9	—
24	1.200 [30.48]	1-102540-0	102681-7	1-102537-0	1-102541-0	1-102536-0	102823-9	1-102396-0	103268-7
26	1.300 [33.02]	1-102540-1	102681-8	1-102537-1	1-102541-1	1-102536-1	1-102823-0	1-102396-1	103268-8
28	1.400 [35.56]	1-102540-2	102681-9	1-102537-2	1-102541-2	1-102536-2	1-102823-1	1-102396-2	_
30	1.500 [38.10]	1-102540-3	1-102681-0	1-102537-3	1-102541-3	1-102536-3	1-102823-2	1-102396-3	103268-9
32	1.600 [40.64]	_	1-102681-1	1-102537-4	1-102541-4	1-102536-4	1-102823-3	1-102396-4	—
34	1.700 [43.18]	_	1-102681-2	1-102537-5	1-102541-5	1-102536-5	1-102823-4	1-102396-5	1-103268-0
40	2.000 [50.80]	_	1-102681-5	1-102537-8	1-102541-8	1-102536-8	102823-2	1-102396-8	_
50	2.500 [63.50]	_	2-102681-0	2-102537-3	2-102541-3	2-102536-3	102823-3	2-102396-3	1-103268-3
60	3.000 [76.20]	_	_	2-102537-8	2-102541-8	2-102536-8	_	2-102396-8	_
64	3.200 [81.28]	_	_	3-102537-0	3-102541-0	3-102536-0	—	3-102396-0	—



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Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



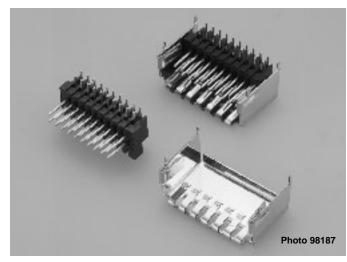
Shielding Hardware and Accessories for MT Interconnection System

Product Facts

- Add-on shielding accessories for existing AMPMODU Standard MT and PC board mounted headers
- Compact design
- Tin plated copper alloy material
- Redundant cantilever beams provide for good peripheral contact, eliminating the need for a separate RF gasket
- Polarized mating
- 360° cable braid termination with cable jacket support
- Cable shielding hardware permits molded cable terminations after assembly
- Must be used with braided shielded cables
- Solder tabs on right-angle header shields are selfretaining in a PC board



Shielded MT Receptacles



Shielded Right-Angle Headers

The shielded AMPMODU MT system features add-on metal shielding kits for double-row standard MT receptacle assemblies and double-row right-angle headers.

Cable shielding hardware consists of a ferrule and two stamped and formed shell halves. The inner shell half has a series of integral cantilever beams to provide good peripheral contact with the mating outer shell half. This feature also eliminates the need for a separate RF gasket. Detents in the cantilever beam provide a positive lock when the two halves are mated. During assembly the inner and outer shell halves are snapped together over a terminated standard MT connector.

Shields for right-angle headers have integral cantilever beams which provide good contact with the mating shielded MT receptacle assembly, without the use of a separate RF gasket.

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Catalog 1307819 Revised 6-04

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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Two-Piece Shields—

Material and Finish: Shell Halves—Copper alloy, .020 [0.51] thick; pretinned .000030

Related Product Data: Double-Row MT Receptacle Assemblies—pages 275, 276 Non-Polarizing Covers (Part No. Series 102541 with back cover

102536 or 102823)-

Shield Ferrules—page 282

Product Specification

Application Specification

Technical Documents (pages

108-25015, 108-25018, 108-25030

pages 277, 278

295, 296):

114-25032

408-6532

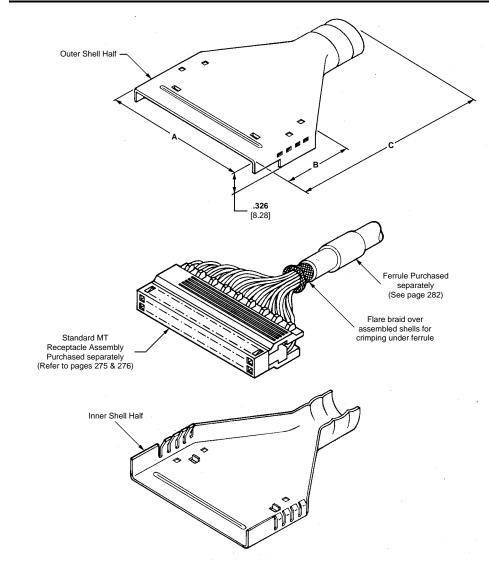
Instruction Sheet

Straight Exit

[0.00076] min.



Shielding Hardware and Accessories for Double-Row MT Receptacle Assemblies



MT Shielding Hardware and Accessories

No. of		Dimensions		Part	Nos.
Pos.	Α	В	С	Outer Shell	Inner Shell
6	.410 [10.41]	.817 [20.75]	1.268 [32.21]	102988-2	102987-6
10	.610 [15.49]	.817 [20.75]	1.667 [42.34]	103137-2	103136-2
16	.910 [23.11]	.950 [24.13]	1.925 [48.90]	103153-2	103152-2
26	1.410 [35.81]	.950 [24.13]	1.925 [48.90]	103341-2	103340-2
40	2.110 [53.59]	1.325 [33.66]	2.468 [62.69]	104272-1	104271-1
50	2.610 [66.29]	.950 [24.13]	2.468 [62.69]	103158-2	103157-2

Note: Match shield size to number of connector positions.

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Catalog 1307819 Revised 6-04

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



Two-Piece Shields— **Right-Angle Exit**

Material and Finish:

Related Product Data: Double-Row MT Receptacle Assemblies—pages 275, 276 Non-Polarizing Covers (Part No. Series 102541 with back cover

102536 or 102823)-

108-25018, 108-25030 **Application Specification**

Instruction Sheet

Shield Ferrules—page 282

Technical Documents (pages

Product Specification 108-25015,

pages 277, 278

295, 296):

114-25032

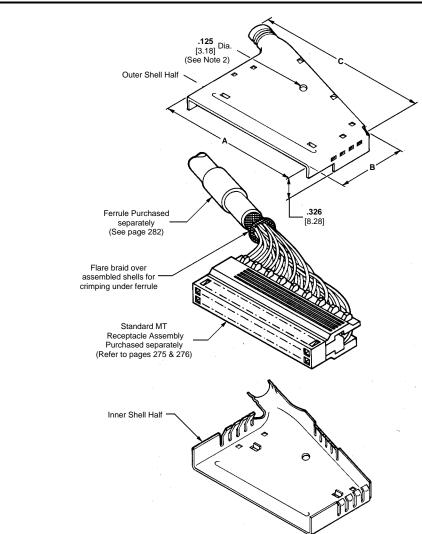
408-6532

[0.00076] min.

Shell Halves—Copper alloy, .020 [0.51] thick; pretinned .000030



Shielding Hardware and Accessories for Double-Row MT Receptacle Assemblies (Continued)



No. of Pos.		Dimensions	Part Nos.		
	Α	В	С	Outer Shell	Inner Shell
18	1.010 [25.65]	1.120 [28.45]	1.413 [35.89]	102784-2	102783-2
26	1.410 [35.81]	1.166 [29.62]	1.975 [50.17]	103139-2	103138-2
40	2.110 [53.59]	1.135 [28.83]	2.633 [66.88]	102786-2	102785-2
50	2.610 [66.29]	.983 [24.97]	3.133 [79.58]	102788-2	102787-2
60	3.110 [78.99]	1.118 [28.40]	3.606 [91.59]	103141-2	103140-2

Notes: 1. Match shield size to number of connector positions.

2. Hole is provided in 26 through 60-position cable shields for application of optional cable tie pull ring after assembly.

Catalog 1307819 Revised 6-04

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Shielding Hardware and Accessories for Double-Row MT Receptacle Assemblies (Continued)

Ferrules for Shielding Kits

Material and Finish:

Soft copper, tin plated

Related Product Data: Used with Shielding Kits pages 280, 281

Technical Documents (pages 295, 296):

Product Specification 108-25015, 108-25018, 108-25030 Application Specification

114-25032 Instruction Sheet

408-6532

Application Tooling



AMP-O-LECTRIC Model "G" Terminating Machine AMP Hand Tool 91410-1

e e

(Dle Set required, see table below)

No. of	Straight-E	Straight-Exit Shields		Exit Shields	Cable Dia.	Ferrule	Applicator Die*	Hand Tool Die Sets			
Positions	Outer	Inner	Outer	Inner	Range	Part Number	Assembly Part No.	Insulation	Braid		
0	100000 0	400007.0			0.170-0.195 [4.32-4.95]	1-102903-83	812665-1	1-527116-9	527116-		
6	102988-2	102987-6	_	_	0.200-0.250 [5.08-6.35]	102985-3	812665-2	1-527116-8	527116-		
					0.190-0.240 [4.83-6.10]	1-102903-5	812665-6	1-527116-7	527116-		
40	400407.0	400400.0			0.250-0.300 [6.35-7.62]	102903-9	812665-5	1-527116-6	527116-		
10	103137-2	103136-2	_	_	0.310-0.360 [7.87-9.14]	102903-3	812665-4	1-527116-5	527116-		
					0.370-0.420 [9.40-10.67]	102789-3	812665-3	1-527116-4	527116-		
					0.190-0.240 [4.83-6.10]	1-102903-5	812665-6	1-527116-7	527116-		
					0.250-0.300 [6.35-7.62]	102903-9	812665-5	1-527116-6	527116		
16	103153-2	103152-2	_	_	0.310-0.360 [7.87-9.14]	102903-3	812665-4	1-527116-5	527116		
					0.370-0.420 [9.40-10.67]	102789-3	812665-3	1-527116-4	527116		
		_					0.190-0.240 [4.83-6.10]	1-102903-5	812665-6	1-527116-7	527116
			102784-2	102783-2	0.250-0.300 [6.35-7.62]	102903-9	812665-5	1-527116-6	527116		
18					0.310-0.360 [7.87-9.14]	102903-3	812665-4	1-527116-5	527116		
					0.370-0.420 [9.40-10.67]	102789-3	812665-3	1-527116-4	527116		
					0.320-0.370 [8.13-9.40]	2-102903-4	812665-9	1-527116-3	527116		
26	103341-2	103340-2	103139-2	103138-2	0.380-0.420 [9.65-10.67]	2-102903-1	812665-8	1-527116-2	527116		
					0.430-0.460 [10.92-11.68]	102789-6	812665-7	1-527116-1	527116		
					0.320-0.370 [8.13-9.40]	2-102903-4	812665-9	1-527116-3	527116		
40	104272-1	104271-1	102786-2	102785-2	0.380-0.420 [9.65-10.67]	2-102903-1	812665-8	1-527116-2	527116		
					0.430-0.460 [10.92-11.68]	102789-6	812665-7	1-527116-1	527116		
					0.380-0.420 [9.65-10.67]	3-102903-0	1-812665-5	1-527116-2	527116		
50	103158-2	103157-2	102788-2	102787-2	0.430-0.460 [10.92-11.68]	2-102903-7	1-812665-4	1-527116-1	527116		
					0.470-0.520 [11.94-13.21]	102789-9	1-812665-3	1-527116-0	527116		
					0.470-0.520 [11.94-13.21]	3-102903-6	1-812665-8	—	_		
60	—	_	103141-2	103140-2	0.500-0.545 [12.70-13.84]	3-102903-3	1-812665-7	_	_		
					0.550-0.600 [13.97-15.24]	1-102789-2	1-812665-6	_	_		

*For use with Model "K" machines. Call the Tyco Electronics Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (also shown on page 289), as well as other bench machines and fully automatic AMPOMATORlead making machines.

Notes: 1. Ferrules are used with shielding kits shown on pages 280 & 281, and are purchased separately.

2. Individual anvils and crimpers also may be purchased separately.

3. Ferrule Part Number 1-102903-8 also requires Spacer Part Number 527116-9.

Dimensions are in inches and

Catalog 1307819 Revised 6-04

Revised 6-04 millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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AMPMODU Right-Angle Headers PC Board Mounted

Material and Finish:

Housing-Black thermoplastic, flame retardant

Posts—Copper alloy, plated .000030 [0.00076] gold over .000050 [0.00127] nickel on entire post

Shield—Copper alloy, .020 [0.51] thick; pretinned .000030 [0.00076] min.

Related Product Data:

Mating Connectors—Double-Row MT Receptacle Assemblies with Shielding Hardware—pages 275-282

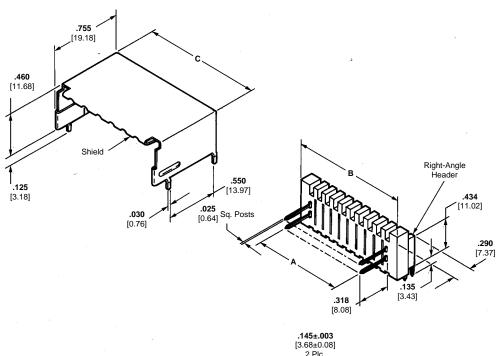
Technical Documents (pages 295, 296):

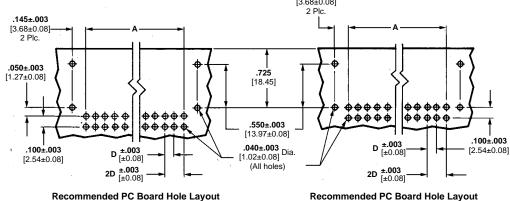
Product Specification 108-25015, 108-25018, 108-25030 **Application Specification**

114-25032.

Instruction Sheet 408-6532







Recommended PC Board Hole Layout for 16 thru 50 Positions

D - Contact centerline is .100 [2.54]; ±.003 [0.08] tolerances not to accumulate within one connector pattern.

No. of Pos.		Dimensions	Header	Shield	
	Α	В	С	Part Nos.	Part Nos.
6	.200 [5.08]	.430 [10.92]	.510 [12.95]	102792-6	102991-1
8	.300 [7.62]	.530 [13.46]	.610 [15.49]	102792-8	102991-2
10	.400 [10.16]	.630 [16.00]	.710 [18.03]	102792-1	102791-2
16	.700 [17.78]	.930 [23.62]	1.010 [25.65]	102792-7	102791-3
18	.800 [20.32]	1.030 [26.16]	1.110 [28.19]	102792-2	102791-4
20	.900 [22.86]	1.130 [28.70]	1.210 [30.73]	102792-5	1-102791-0
26	1.200 [30.48]	1.430 [36.32]	1.510 [38.35]	102792-9	102791-1
50	2.400 [60.96]	2.630 [66.80]	2.710 [68.83]	102792-4	102791-8



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for 6, 8 and 10 Positions

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



Replacement MT Receptacle Contacts

Electronics

Insulation Displacement Contacts

Material and Finish:

Copper alloy, duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead in crimp area, with entire contact underplated .000050 [0.00127] nickel

Related Product Data:

Performance Characteristics page 274

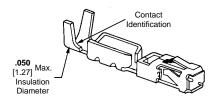
Application Tooling—pages 290-293

Technical Documents (pages 295, 296):

Product Specification 108-25015, 108-25018, 108-25030 Application Specification

114-25032

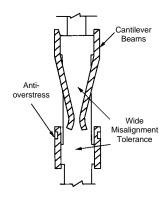
Instruction Sheet 408-6532



Wire Size Range		Standard F Recep		High Pressure Receptacle		
AWG	[mm²]	Contact Ident.	Part No.	Contact Ident.	Part No.	
30-26	0.05-0.15	1	102395-3	4	102641-3	
26-22	0.12-0.3	2	102399-3	5	102642-3	
22-20	0.3-0.6	3	102449-3		_	

Note: Termination tooling for MT receptacle insulation displacement contacts is shown on pages 290 thru 293.

MT receptacle contacts incorporate the following features.



The MT receptacle contact cross-section is primarily rectangular, with rounded corners. Two integral contilever beams contact the mating square male posts. Deflection of these spring members is limited by anti-overstress and excessive permanent deformation is prevented. This feature allows a wide range for tolerance of misalignment of mating contacts. The configuration of the receptacle completely encloses the spring members helping to prevent damage during handling and assembly, and makes the system compatible with automatic application techniques.



Extraction/Lance Reset Tool No. 843477-3



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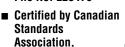


AMP Mini-Tandem Spring Receptacle Housings and Contacts

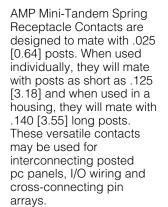


Product Facts

- Individual contacts mate with .025 [0.64] sq. posts, .125 [3.18] long
- Crimp snap-in contacts accept 32-22 AWG [0.03-0.32 mm²] wire
- Retention latch provides for positive installation
- No insertion tool required
- High durability design provides long life
- Available with .000015 [0.00038] or .000030 [0.00076] thick gold inlay in contact areas, or bright tin plated
- Closed-entry housings
- Mini-contact box size: .060 [1.52] sq.
- Mini-Tandem Spring Housings can be stacked on .100 [2.54] centers in either direction
- Mini-Tandem Spring Housings are Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476



File No. LR 7189



The receptacle contact's box configuration provides for long contact life with controlled contact mating forces which minimize wear. An external retention spring facilitates quick assembly and provides firm seating in a contact housing. AMP Mini-Tandem Spring Receptacle Contacts are used in single- or doublerow housings with .100 [2.54] centerline spacing. Single-row housings can be converted into double-row connectors on .100 x .200 [2.54 x 5.08] centers with the use of stacking clips.

Mini-Tandem Spring Housings can be stacked side-by-side or end-to-end on .100 [2.54] centers.

Specifications

Photo 196196

Contact Current Rating—3 amperes Termination Resistance— 12 milliohms (max.)—gold plated contacts 18 milliohms (max.)—tin plated contacts Durability—Ref. AMP Product Specification 108-25031

Catalog 1307819 Revised 6-04

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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. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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.100 [2.54] Centerline

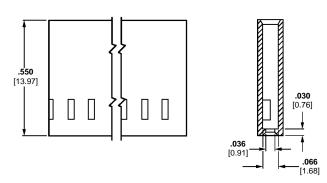


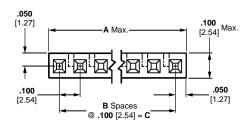
Material—Black glass-filled polyester, 94V-0 rated

Technical Documents (page 295):

Product Specification 108-25031 Application Specification 114-25021

AMP Mini-Tandem Spring Housings, Single-Row





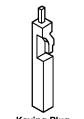
Minimum mating post length is .140 [3.55].

No. of		Dimensions						
Pos.	Α	В	С	Part No.				
2	.200 [5.08]	1	.100 [2.54]	530554-1				
3	.300 [7.62]	2	.200 [5.08]	530554-2				
4	.400 [10.16]	3	.300 [7.62]	530554-3				
5	.500 [12.70]	4	.400 [10.16]	530554-4				
7	.700 [17.78]	6	.600 [15.24]	530554-6				
8	.800 [20.32]	7	.700 [17.78]	530554-7				
10	1.000 [25.40]	9	.900 [22.86]	530554-9				
12	1.200 [30.48]	11	1.100 [27.94]	1-530554-1				
16	1.600 [40.64]	15	1.500 [38.10]	1-530554-5				
18	1.800 [45.72]	17	1.700 [43.18]	1-530554-7				
20	2.000 [50.80]	19	1.900 [48.26]	1-530554-9				
22	2.200 [55.88]	21	2.100 [53.34]	2-530554-1				

Note: AMP Mini-Tandem Spring contacts for use in these housings are shown on page 288.







Material—Natural color nylon,

94V-2 rated

Keying Plug Part No. 531226-1 (Plugs directly into housing)

286

Catalog 1307819 Revised 6-04

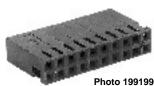
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.100 [2.54] Centerline

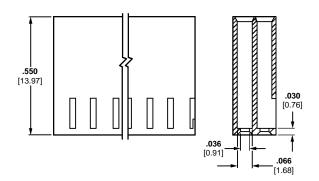


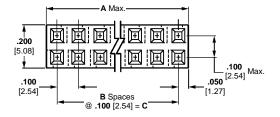
Material—Black glass-filled polyester, 94V-0 rated*

Technical Documents (page 294):

Product Specification 108-25031 Application Specification 114-25021

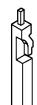
AMP Mini-Tandem Spring Housings, Double-Row





Minimum mating post length is .140 [3.55].

Material—Natural color nylon, 94V-2 rated



Keying Plug Part No. 531226-1

(Plugs directly into housing)

Dimensions Housing Part No. No. of Pos. С Α в 4 .200 [5.08] .100 [2.54] 530902-5 1 .200 [5.08] 6 .300 [7.62] 2 530902-1 8 .400 [10.16] 3 .300 [7.62] 530902-6 10 .500 [12.70] 4 .400 [10.16] 530902-2 12 .600 [15.24] 5 .500 [12.70] 2-530902-0 16 .800 [20.32] .700 [17.78] 3-530902-0 20 1.000 [25.40] 9 .900 [22.86 530902-8

Note: AMP Mini-Tandem Spring contacts for use in these housings are shown on page 288.

*Consult Tyco Electronics for specific UL recognition.

Catalog 1307819 Revised 6-04

www.tycoelectronics.com specified are metro

millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 Mini-Tandem Spring Contacts

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AMP Mini-Tandem Spring Contacts

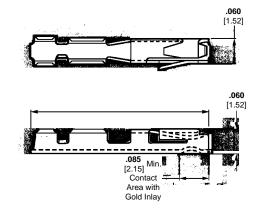
Receptacle Contacts

Material and Finish:

Phosphor bronze, plated as follows: **Plating A**—Duplex plated .000030 [0.00076] gold inlay on contact area, tin in crimp area, with entire contact underplated .000050 [0.00127] nickel **Plating B**—Duplex plated .000015 [0.00038] gold inlay on contact area, tin in crimp area, with entire contact underplated .000050 [0.00127] nickel **Plating C**—000100 [0.00254] min. bright tin over .000030 [0.00076] nickel on entire contact

Technical Documents (page 294):

Product Specification 108-25031 Application Specification 114-25021



Low Pressure Contacts

Wire Size Range		Ins. Dia.		Contac	t Part No.	Miniature Applicator for	Applicator for AMP-O-MATIC	
AWG	mm²	Range	Finish	Strip Form	Loose Piece	AMP-O-LECTRIC Machine*	Stipper/Crimper Machine	
26-22	0.14-0.32	0.36-0.54	Plating A	531216-3	531216-4	- 466819-2	466943-1	
20-22	0.11 0.02	[0.64-1.37]		531216-1	531216-2	- 400019-2	400943-1	

Standard Pressure Contacts

Wire Size Range		Ins. Dia.		Contac	t Part No.	Miniature Applicator for	Applicator for AMP-O-MATIC	
AWG	mm²	n ² Range Finisł		Strip Form	Loose Piece	AMP-O-LECTRIC Machine*	Stipper/Crimper Machine	
		005 054	Plating B	530901-2	530901-3	466723-1	466952-1	
32-28	0.03-0.08	.025054 [0.64-1.37]	Plating C	530901-6	530901-7			
		[0.04-1.07]	Plating D	530901-4	530901-5	_		
			Plating B	530553-4	530553-5	466819-2	466943-1	
26-22	0.14-0.32	.036054 [0.91-1.37]	Plating C	530553-6	530553-7			
		[0.31-1.37]	Plating D	530553-2	—	_		

High Pressure Contacts

Wire Size Range		Ins. Dia.		Contact Pa	art Number	Miniature Applicator for	Applicator for AMP-O-MATIC	
AWG	mm²	Range	Finish	Strip Form	Loose Piece	AMP-O-LECTRIC Machine*	Stripper/Crimper Machine	
32-28	0.03-0.08	.025054 [0.64-1.37]	Plating B	531225-6	_	466723-1	466952-1	
26-22	0.14-0.32	.036054 [0.91-1.37]	Plating B	531224-6	531224-7	466819-2	466943-1	

*For use with AMP-O-LECTRIC Model "K" machines. Call the Tooling/Technical Assistance Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 289), as well as other bench machines and fully automatic AMPOMATOR lead making machines.

Notes: 1. Mini-Tandem Spring Receptacle Contacts are for use only in the housings shown on pages 286 & 287. They cannot be used in AMPMODU Mod IV Housings.

2. Use Hand Tool No. 91540-1 for crimping loose-piece receptacles to all wire sizes listed above.

3. Application tooling is described on pages 289 & 293.

Mini-Tandem Spring Housings

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Dimensions are in inches and

millimeters unless otherwise

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