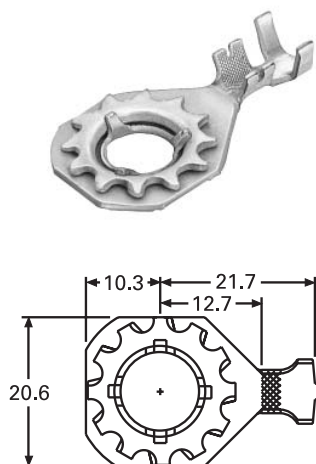




Ring Terminals

A wide selection of basic washer style and spade style terminals with design features to accommodate various application requirements. These terminals are designed with both core and insulation crimp wings and employ the same state of the art crimp design features as our entire connection systems family.



Ring and Washer Terminal Assemblies

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M6.3	7.16	8.0	12162932	Brass	Tin	0.81
M6.3	7.16	5.0-3.0	12065449	Brass	Tin	0.81
M6.3	7.16	3.0-2.0	12089263	Brass	Tin	0.81
M6.3	7.16	1.0-0.80	12089496	Brass	Tin	0.81
M6.3	7.16	1.0-0.80 (2 Req'd.)	12103086	Brass	Tin	0.81
M10	10.34	5.0	12084554	Brass	Tin	0.81
M10	10.34	3.0 - 2.0	12089240	Brass	Tin	0.81
M10	10.34	1.0-0.80	12089045	Brass	Tin	0.81
M10	10.34	1.0-0.80 (2 Req'd.)	12084185	Brass	Tin	0.81
M12	12.60	1.0 (2 Req'd.) 1.0-0.80 (2 Req'd.)	12129822	Brass	Tin	0.81



Anti-Rotation Terminals w/90° Tab

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M6	6.70	8.0	15354755	Copper Alloy	Tin	0.81
M6	6.70	5.0	15354754	Copper Alloy	Tin	0.81
M6	6.70	3.0-2.0	15354753	Copper Alloy	Tin	0.81
M6	6.70	1.0-0.80	15355521	Copper Alloy	Tin	0.81
M8	8.50	8.0	15354758	Copper Alloy	Tin	0.81
M8	8.50	5.0	15354757	Copper Alloy	Tin	0.81
M8	8.50	3.0-2.0	15354756	Copper Alloy	Tin	0.81
M10	10.60	1.0-0.80	12191057	Copper Alloy	Tin	0.81

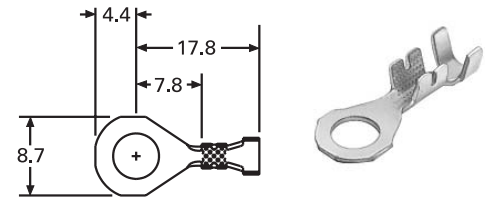
Anti-rotation terminals are designed in a straight configuration.
A crimp and bend die is available for terminal application.

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Ring Terminals

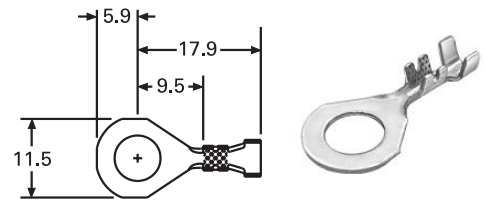
Small Ring Terminals

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M4	4.30	5.0	12103518	Copper Alloy	Tin	1.02
M4	4.30	3.0-2.0	12103520	Copper Alloy	Tin	0.81
M5	5.40	5.0	12103517	Copper Alloy	Tin	1.02
M5	5.40	3.0-2.0	12103519	Copper Alloy	Tin	0.81



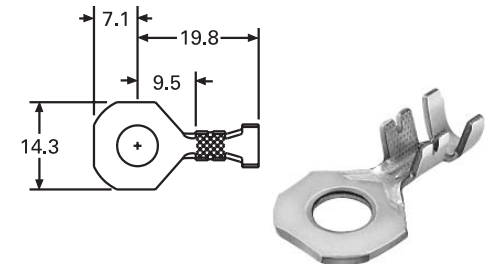
Medium Ring Terminals

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M4	4.30	1.0-0.80	12103516	Copper Alloy	Tin	0.65
M5	5.40	1.0-0.80	12103515	Copper Alloy	Tin	0.65
M6	6.70	1.0-0.80	12103514	Copper Alloy	Tin	0.65



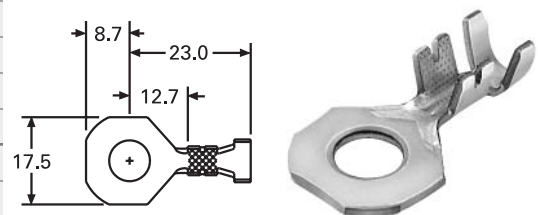
Ring Terminals

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M6	6.70	5.0	12103512	Copper Alloy	Tin	1.02
M6	6.70	3.0-2.0	12103513	Copper Alloy	Tin	0.81



Ring Terminals

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M6	6.70	8.0	12103965	Copper Alloy	Tin	1.02
M6	6.70	5.0	12162098	Copper Alloy	Tin	1.02
M6	6.70	3.0-2.0	12162099	Copper Alloy	Tin	0.81
M6	6.70	1.0-0.80	12162100	Copper Alloy	Tin	0.65
M6	6.70	1.0-0.80 (2 Req'd.)	12103511	Copper Alloy	Tin	0.65
M8	8.50	8.0	12103502	Copper Alloy	Tin	1.02
M8	8.50	5.0	12103504	Copper Alloy	Tin	1.02
M8	8.50	3.0-2.0	12103506	Copper Alloy	Tin	0.81
M8	8.50	1.0-0.80	12103508	Copper Alloy	Tin	0.65
M8	8.50	1.0-0.8 (2 Req'd.)	12103510	Copper Alloy	Tin	0.65
M10	10.60	8.0	12103501	Copper Alloy	Tin	1.02
M10	10.60	5.0	12103503	Copper Alloy	Tin	1.02
M10	10.60	3.0-2.0	12103505	Copper Alloy	Tin	0.81
M10	10.60	1.0-0.80	12103507	Copper Alloy	Tin	0.65
M10	10.60	1.0-0.80 (2 Req'd.)	12103509	Copper Alloy	Tin	0.65



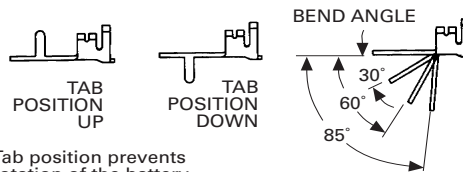
Anti-rotation terminals are designed in a straight configuration.
A crimp and bend die is available for terminal application.

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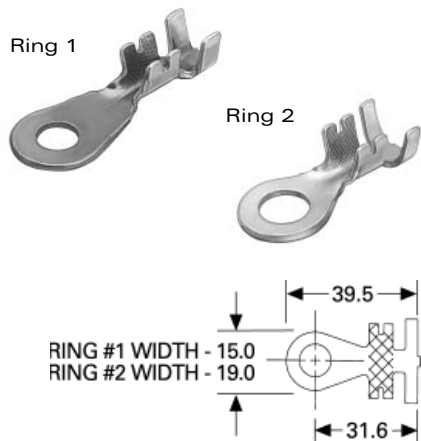
Battery / Heavy Duty Terminals

Delphi offers a complete line of top and side mounted battery terminals for all applications. Anti-rotation tabs are included for ease of installation and assembly. Stamped and serrated crimp wings offer unparalleled crimp reliability and durability.



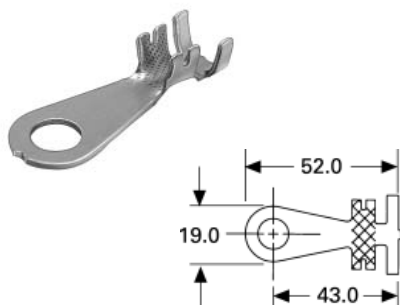
Tab position prevents rotation of the battery terminal during installation.

Delphi offers **battery cable assemblies** for applications requiring an angled terminal. Contact your regional support representative.



Short Neck Ring Terminals

Ring #	Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Width	Material	Plating	Stock Thickness (mm)
1	M6	6.70	32.0	12146425	15.0	Copper	Tin	1.52
1	M6	6.70	19.0-13.0	12146366	15.0	Copper	Tin	1.52
1	M6	6.70	8.0	12146364	15.0	Copper	Tin	1.30
1	M8	8.50	32.0	12191220	19.0	Copper	Tin	1.52
1	M8	8.50	32.0	12146429	15.0	Copper	Tin	1.52
1	M8	8.50	19.0-13.0	12146365	15.0	Copper	Tin	1.52
1	M8	8.50	8.0	12146363	15.0	Copper	Tin	1.30
2	M10	10.34	32.0	12146744	19.0	Copper	Tin	1.52
2	M10	10.34	19.0-13.0	12146745	19.0	Copper	Tin	1.52



Standard Neck Ring Terminals

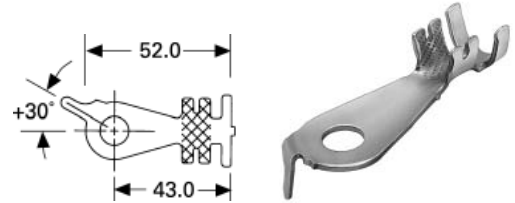
	Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
	M6	6.70	32.0	12124276	Copper	Tin	1.52
	M6	6.70	19.0-13.0	12146713	Copper	Tin	1.52
	M6	6.70	8.0	12124296	Copper	Tin	1.52
	M8	8.50	62.0-50.0	12103014	Copper	Tin	1.83
	M8	8.50	32.0	12146361	Copper	Tin	1.52
	M8	8.50	19.0-13.0	12129598	Copper	Tin	1.52
	M8	8.50	8.0	12124297	Copper	Tin	1.52
	M10	10.34	62.0-50.0	12103010	Copper	Tin	1.83
	M10	10.34	50.0	12160231	Copper	Tin	1.83
	M10	10.34	32.0	12146360	Copper	Tin	1.52
	M10	10.34	19.0-13.0	12146362	Copper	Tin	1.52
	M10	10.34	8.0	12124295	Copper	Tin	1.30

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Battery / Heavy Duty Terminals

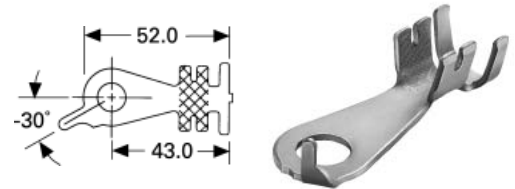
Standard Neck Starter Terminals

Stud Size	Hole Dia.	Tab Position	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	30° Up	32.0	12146506	Copper	Tin	1.52
M10	10.34	30° Up	32.0	12146401	Copper	Tin	1.52
M8	8.50	30° Down	32.0	15317798	Copper	Tin	1.52
M8	8.50	30° Down	19.0-13.0	12110246	Copper	Tin	1.52



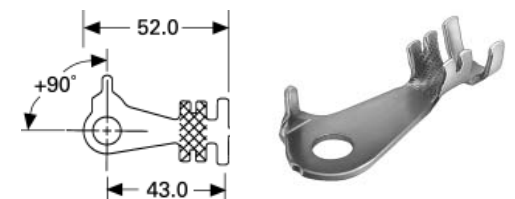
Standard Neck Starter Terminals

Stud Size	Hole Dia.	Tab Position	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	-30° Up	50.0	12161119	Copper	Tin	1.83
M8	8.50	-30° Up	32.0	12129433	Copper	Tin	1.52
M8	8.50	-30° Up	19.0-13.0	12146579	Copper	Tin	1.52
M10	10.34	-30° Up	50.0	12146471	Copper	Tin	1.83
M10	10.34	-30° Up	32.0	12146487	Copper	Tin	1.52
M8	8.50	-30° Down	32.0	12129651	Copper	Tin	1.52
M8	8.50	-30° Down	19.0-13.0	12160443	Copper	Tin	1.52
M10	10.34	-30° Down	32.0	12160281	Copper	Tin	1.52



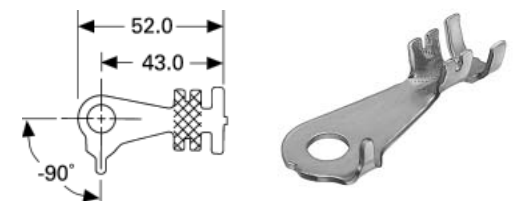
Standard Neck Starter Terminals

Stud Size	Hole Dia.	Tab Position	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	90° Up	50.0	15305504	Copper	Tin	1.83
M8	8.50	90° Up	32.0	12129437	Copper	Tin	1.52
M8	8.50	90° Up	19.0-13.0	12129435	Copper	Tin	1.52
M10	10.34	90° Up	50.0	12160229	Copper	Tin	1.83
M10	10.34	90° Up	32.0	15304850	Copper	Tin	1.52
M8	8.50	90° Down	32.0	12161133	Copper	Tin	1.52
M8	8.50	90° Down	19.0-13.0	12161170	Copper	Tin	1.52



Standard Neck Starter Terminals

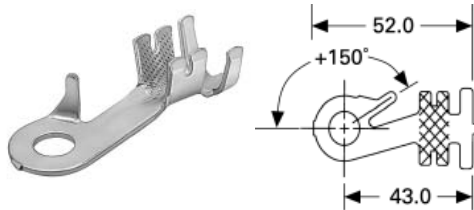
Stud Size	Hole Dia.	Tab Position	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	-90° Up	32.0	12176593	Copper	Tin	1.52
M8	8.50	-90° Up	19.0-13.0	12160242	Copper	Tin	1.52
M10	10.34	-90° Up	50.0	12129222	Copper	Tin	1.83
M10	10.34	-90° Up	32.0	12129628	Copper	Tin	1.52
M8	8.50	-90° Down	50.0	12160233	Copper	Tin	1.83
M8	8.50	-90° Down	32.0	12160232	Copper	Tin	1.52
M8	8.50	-90° Down	19.0-13.0	12146999	Copper	Tin	1.52
M10	10.34	-90° Down	19.0-13.0	12146736	Copper	Tin	1.52



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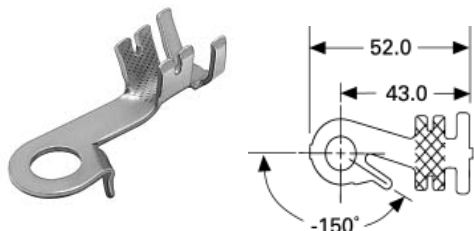


Battery / Heavy Duty Terminals



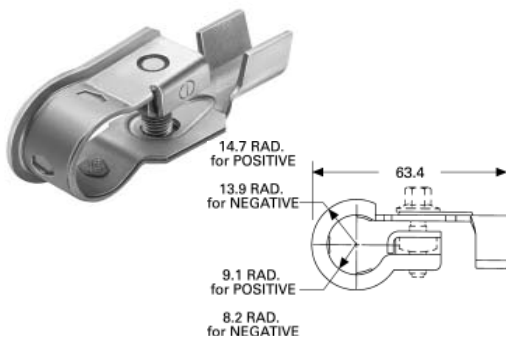
Standard Neck Starter Terminals

Stud Size	Hole Dia.	Tab Position	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	150° Up	50.0	15305508	Copper	Tin	1.83
M8	8.50	150° Up	32.0	12191773	Copper	Tin	1.52
M10	10.34	150° Up	50.0	12191005	Copper	Tin	1.83
M8	8.50	150° Down	19.0-13.0	12146718	Copper	Tin	1.52
M10	10.34	150° Down	32.0	12191461	Copper	Tin	1.52



Standard Neck Starter Terminals

Stud Size	Hole Dia.	Tab Position	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	-150° Up	50.0	12191787	Copper	Tin	1.83
M10	10.34	-150° Down	32.0	15318209	Copper	Tin	1.52



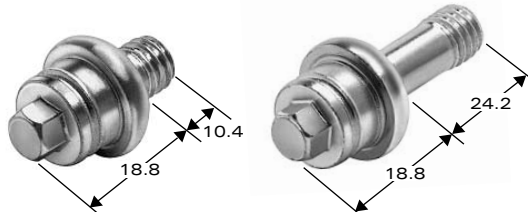
Top Post Battery Terminals

Application	Cable Range (mm ²)	Part #	Material	Plating	Stock Thickness (mm)
Negative	50.0	12177299	Copper	Tin	1.52
Positive	50.0	12177296	Copper	Tin	1.52
Negative	32.0	12177297	Copper	Tin	1.52
Positive	32.0	12177298	Copper	Tin	1.52
Positive	19.0	15305118	Copper	Tin	1.52
Negative	19.0	15305119	Copper	Tin	1.52

Fastener Bolt (12177293) and nut (12177294) are available from the manufacturer.

15492508

15492510



Battery Bolts & Spacer

Part #	Material	Plating	Spacer
15492508	Steel	Zinc Gold Chromate	—
15492510	Steel	Zinc Gold Chromate	12004189

Coated with "Pavco" sealer to provide corrosion protection.

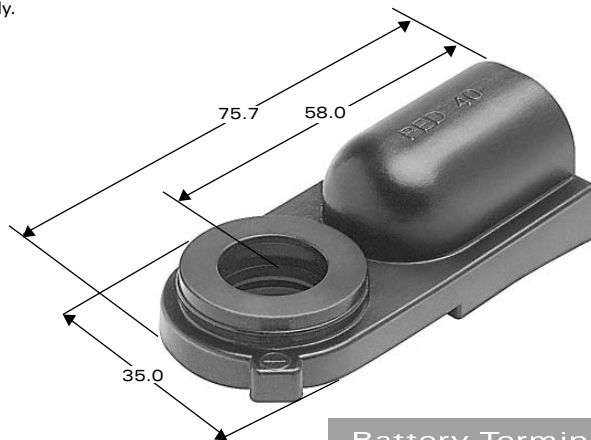
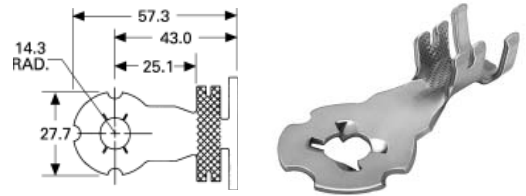
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Side Post Battery Terminals & Covers

Side Post Battery Terminals

Stud Size	Hole Dia.	Cable Range (mm ²)	Part #	Barbs*	Material	Plating	Stock Thickness (mm)
M10	9.90	62.0	12129221	Yes	Copper	Tin	1.83
M10	9.90	50.0	12129465	Yes	Copper	Tin	1.83
M10	9.90	32.0	12146466	Yes	Copper	Tin	1.52
M10	9.90	19.0	12146467	Yes	Copper	Tin	1.52
M10	9.90	13.0	12146464	Yes	Copper	Tin	1.52

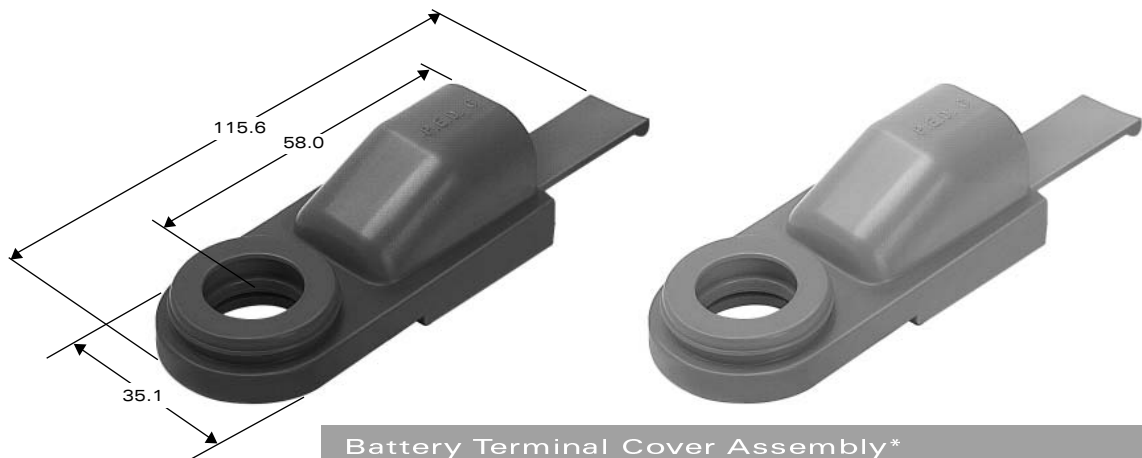
* Barbs (indentations in center hole) in terminals are used to prevent rotation after assembly. Bolts ordered separately.



Battery Terminal Covers

Part #	Color	Overall Length	Height	Width	Application	Material
12160209	Black	75.7	25.5	35.0	Single	Vinyl
12160210	Red	75.7	25.5	35.0	Single	Vinyl

Used with battery bolt 15492508 or equivalent



Battery Terminal Cover Assembly*

Part #	Color	Overall Length	Height	Width	Application	Material
15304878	Black	115.6	27.5	35.1	(2) Stackable	Vinyl
15304876	Red	115.6	27.5	35.1	(2) Stackable	Vinyl

Used with battery bolt 15492510 or equivalent.

* Includes 12004189 Spacer.

SECTION NOTES:

- Covers protect the interface between the cable and the battery.

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