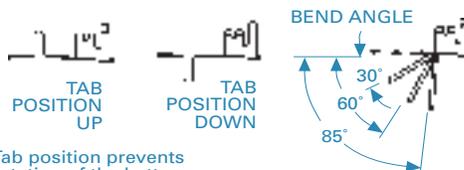# HEAVY DUTY TERMINALS

Delphi Connection Systems 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 durabilty.

TAB POSITION UP

TAB POSITION DOWN

Tab position prevents rotation of the battery terminal during installation.

BEND ANGLE

30°
60°
85°

Delphi Packard Electric offers **battery cable assemblies** for applications requiring an angled terminal. Contact your regional support representative at the number listed below.
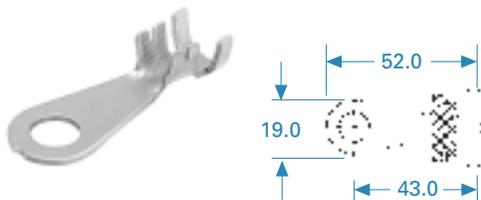
Ring 1

Ring 2

39.5

RING #1 WIDTH - 15.0
RING #2 WIDTH - 19.0

31.6
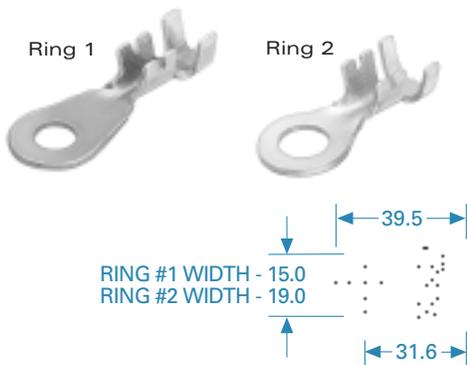
SHORT NECK RING TERMINALS

Ring #	Stud Size	Hole Dia.	Cable Range (mm²)	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

52.0

19.0

43.0

STANDARD NECK RING TERMINALS

Stud Size	Hole Dia.	Cable Range (mm²)	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

http://delphi.com/products/connect

| North American Region	European Region	Asia Pacific Region	South American Region
1-800-PACKARD	49-202-291-2000	65-730-9900	55-12-378-2002

Heavy Duty Terminals

STANDARD NECK STARTER TERMINALS

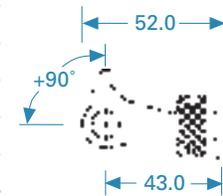| Stud Size	Hole Dia.	Tab Position	Cable Range (mm²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	30˚ Up	32.0	12146506	Copper	Tin	1.52
M10	10.34	30˚ Up	32.0	12146401	Copper	Tin	1.52
M8	8.50	30˚ Down	32.0	15317798	Copper	Tin	1.52
M8	8.50	30˚ Down	19.0-13.0	12110246	Copper	Tin	1.52
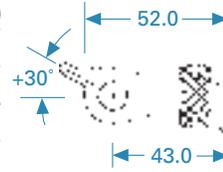
STANDARD NECK STARTER TERMINALS

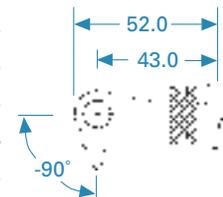| Stud Size	Hole Dia.	Tab Position	Cable Range (mm²)	Part #	Material	Plating	Stock Thickness (mm)
M8	8.50	-30˚ Up	50.0	12161119	Copper	Tin	1.83
M8	8.50	-30˚ Up	32.0	12129433	Copper	Tin	1.52
M8	8.50	-30˚ Up	19.0-13.0	12146579	Copper	Tin	1.52
M10	10.34	-30˚ Up	50.0	12146471	Copper	Tin	1.83
M10	10.34	-30˚ 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
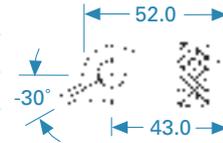
STANDARD NECK STARTER TERMINALS

Stud Size	Hole Dia.	Tab Position	Cable Range (mm²)	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 (mm²)	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

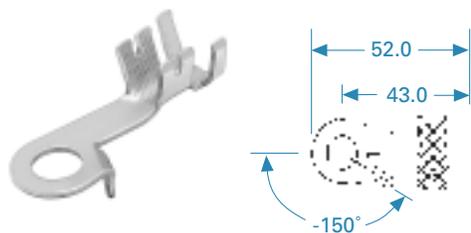http://delphi.com/products/connect
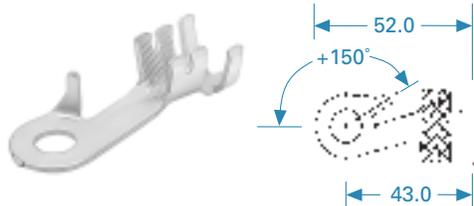
HEAVY DUTY TERMINALS

STANDARD NECK STARTER TERMINALS

| Stud Size	Hole Dia.	Tab Position	Cable Range (mm²)	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

52.0
+150°
43.0

STANDARD NECK STARTER TERMINALS

Stud Size	Hole Dia.	Tab Position	Cable Range (mm²)	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

52.0
43.0
-150°
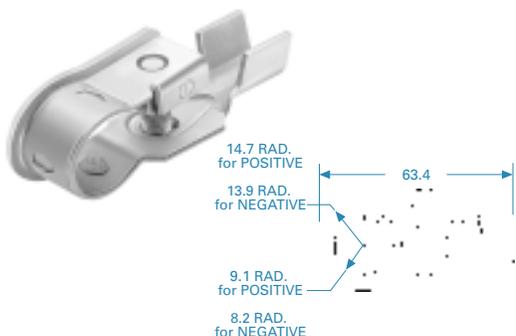
TOP POST BATTERY TERMINALS

Application	Cable Range (mm²)	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.

14.7 RAD. for POSITIVE
13.9 RAD. for NEGATIVE
9.1 RAD. for POSITIVE
8.2 RAD. for NEGATIVE
63.4

08917444
12004188
10.4
18.8
24.2
18.8
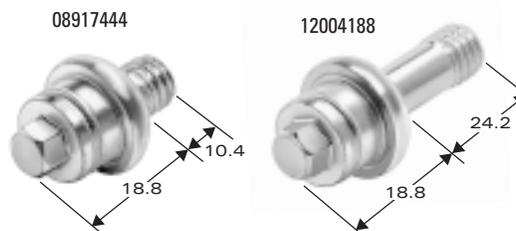
BATTERY BOLTS & SPACER

Part #	Material	Plating	Spacer
08917444	Steel	Zinc Gold Chromate	–
12004188	Steel	Zinc Gold Chromate	12004189

Coated with "Pavco" sealer to provide corrosion protection.

http://delphi.com/products/connect

310

| North American Region	European Region	Asia Pacific Region	South American Region
1-800-PACKARD	49-202-291-2000	65-730-9900	55-12-378-2002

SIDE POST BATTERY TERMINALS & COVERS

SIDE POST BATTERY TERMINALS

| Stud Size	Hole Dia.	Cable Range (mm²)	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
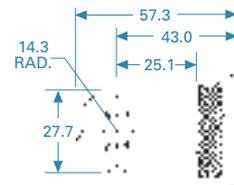
*Barbs (indentations in center hole) in terminals are used to prevent rotation after assembly.
Bolts ordered separately.
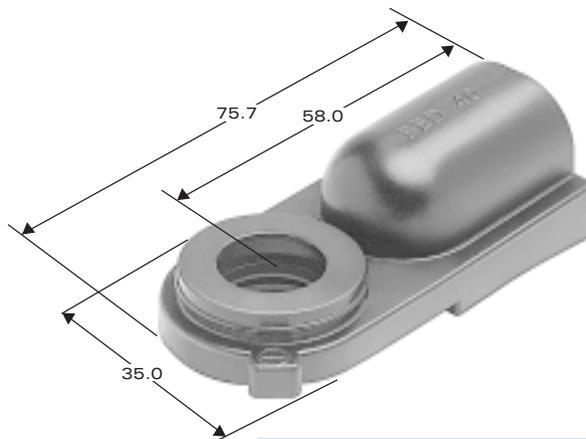
BATTERY TERMINAL COVERS

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 08917444 or equivalent
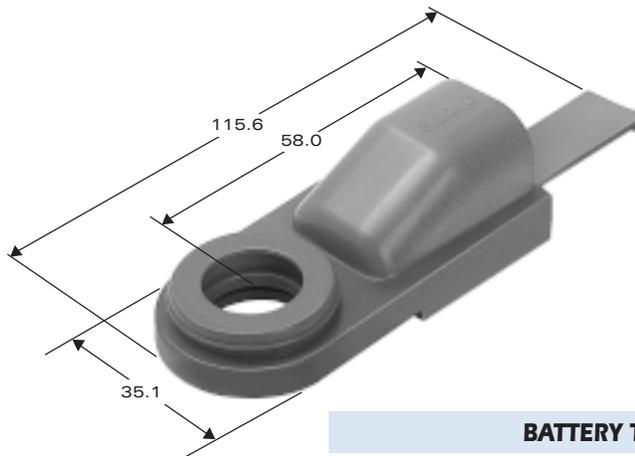
SECTION NOTES:

Contact your regional support representative at the number listed below.

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

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 12004188 or equivalent.
* Includes 12004189 Spacer.

http://delphi.com/products/connect

MOSCHIP.RU
ВМЕСТЕ МЫ СОЗДАЕМ БУДУЩЕЕ

ПОСТАВКА
ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

многоканальный
+7 495 668 12 70
info@moschip.ru

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное   производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru	moschip.ru_6
moschip.ru_4	moschip.ru_9