INTRODUCTION

Welcome to VTE Europe® your home for high quality Terminal Insulators and Electro-Mechanical components. As a proud manufacturer for over 40 years, we have the experience and the know how to meet the requirements for your project.

Three very simple, yet extremely important reasons why you should integrate the VTE range of Terminal Insulators into your products:

COMPLIANCE & SAFETY

Industry standards state that each non grounded terminal or stud that is continuously energised must have a boot, cap, cover or shield that prevents accidental short-circuiting at the terminals or studs.
Our Terminal Insulators are a safe and cost effective way to adhere to these standards.

LRQA CERTIFIED ISO 9001

With our products being designed and manufactured to the highest standards, satisfaction is guaranteed. We received ISO 9001:2015 Certification from the American Center for Sustainable Certifications on Nov 6, 2024.

FLEXIBILITY

With over 2,000 product lines available as a factory option, there is bound to be a product suitable for your application.

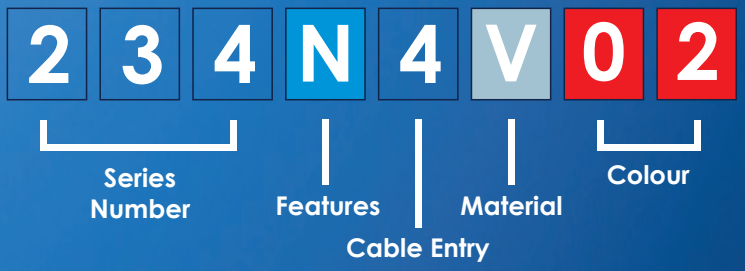
ORDERING GUIDE

Code	Features Available
N	Normal
E	Extended Length (200 Series Only)
L	Left Handed Cable Entries Only
R	Right Handed Cable Entries Only
D	Dual Cable Entries Only

Code	Materials Available *High chemical and UV resistance
V	Vinyl - (Standard, Self Extinguishing)
F	Vinyl - (Fire Retardant Material, Non Flammable)
E	TPV - (Thermoplastic Vulcanizate)*
R	TPR - (Trexprene Thermoplastic Rubber)
T	TPR - (Sentoprene Thermoplastic Rubber)

Properties	U.L. 94 Flame Class	Brittleness Temp °C	Service Temp °C	Tensile Strenth PSI	Elongation %	Tear Strength PPI
V	V-2	-48	105	1550	400	230
F	V-0	-30	105	1500	350	230
E	HB	-60	180	972	475	139
R	?	?	?	?	?	?
T	HB	<-60	125	1020	450	131

SAMPLE 8 DIGIT PART NUMBER



Code	Colours Available
02	Red
14	Black

ROHS COMPLIANT · COMPLIANT

REACH COMPLIANT · COMPLIANT

ABYC a symbol of certainty

CAGE Code
Defence Compliant

SAE INTERNATIONAL J2120 (2009 EDITION)

UL Underwriters Laboratories

LRQA CERTIFIED ISO 9001

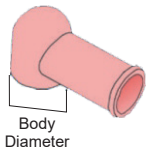
OUR PVC'S ARE UL LISTED: V0 & V02. MOST OF OUR MATERIALS ARE ROHS & REACH COMPLIANT

TERMINAL INSULATORS

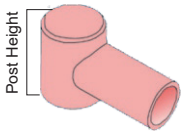
FINDING THE CORRECT INSULATOR

200 SERIES

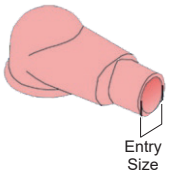
1. Determine your terminal's outside diameter (A)



2. Determine your terminal's post height (B)



3. Determine your terminal's cable entry (D)

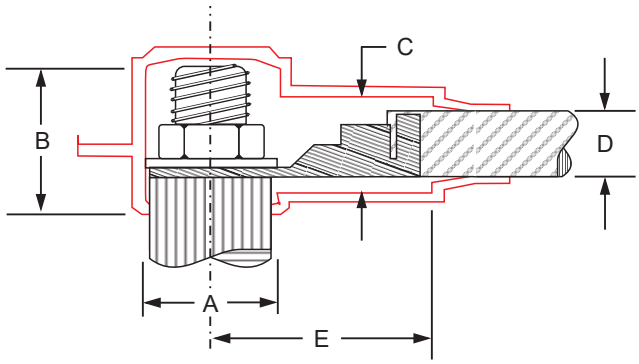


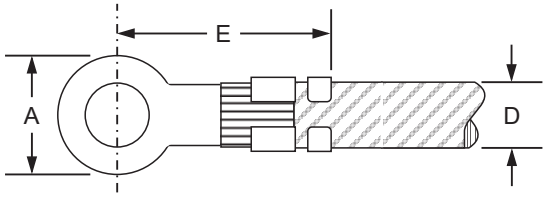
Match your terminal's measurements against the dimensions table to find the correct insulator for your application.

** Images are for illustration purposes only.*

DIMENSIONS TABLE

Base Part Number	A *Terminal O.D. (mm)*	B *Post Height (mm)*	C *Ins. Grip Diameter (mm)*	D *Cable Entry Options (See Chart)*	E *Terminal Length (mm)*	*Nominal Material Thickness (mm)*
212N	12	17.8	12.7	1, 2	25.4	1.5
212E	12	17.8	12.7	1, 2	31.8	1.5
214N	14	19.1	12.7	1, 2	25.4	1.5
214E	14	19.1	12.7	1, 2	31.8	1.5
216N	16	20.3	12.7	1, 2	25.4	1.5
216E	16	20.3	12.7	1, 2	31.8	1.5
218N	18	22.1	12.7	1, 2	25.4	1.5
218E	18	22.1	12.7	1, 2	31.8	1.5
220N	20	24.1	17.8	1, 2, 3	33.5	1.8
220E	20	24.1	17.8	1, 2, 3	44.5	1.8
222N	22	26.7	17.8	1, 2, 3	33.5	1.8
222E	22	26.7	17.8	1, 2, 3	44.5	1.8
224N	24	28.7	17.8	1, 2, 3	41.2	2.0
224E	24	28.7	17.8	1, 2, 3	52.3	2.0
226N	26	31.8	17.8	1, 2, 3	41.2	2.0
226E	26	31.8	17.8	1, 2, 3	52.3	2.0
228N	28	33.5	19.1	1, 2, 3	44.5	2.3
228E	28	33.5	19.1	1, 2, 3	57.2	2.3
230N	30	35.6	19.1	1, 2, 3	44.5	2.3
230E	30	35.6	19.1	1, 2, 3	57.2	2.3
232N	32	38.1	22.9	1, 2, 3, 4	44.5	2.5
232E	32	38.1	22.9	1, 2, 3, 4	60.5	2.5
234N	34	40.6	22.9	1, 2, 3, 4	50.8	2.5
234E	34	40.6	22.9	1, 2, 3, 4	66.8	2.5

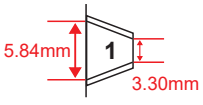




For use with stud-type terminal posts

N = Standard Terminal Length
E = Extra Terminal Length

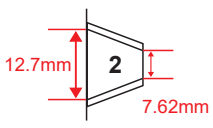
Cable Entry 1



Cable Gauges 18 - 10

0.8mm² [3.24mm] to 5mm² [5.42mm]

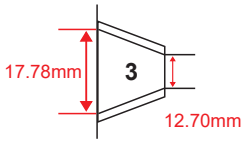
Cable Entry 2



Cable Gauges 8 - 2

8mm² [6.98mm] to 32mm² [11.93mm]

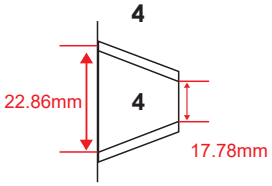
Cable Entry 3



Cable Gauges 2 - 2/0

32mm² [11.93mm] to 62mm² [16.0mm]

Cable Entry 4



Cable Gauges 3/0 - 4/0

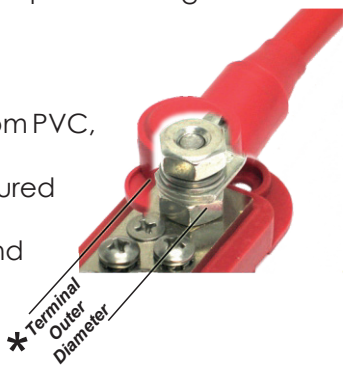
81mm² [18.3mm] to 103mm² [19.8mm]

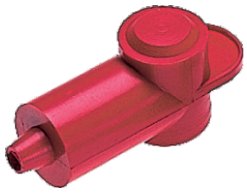
TERMINAL INSULATORS

200 SERIES

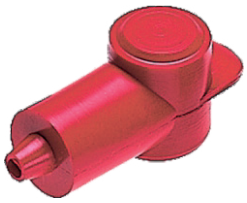
Our Terminal Insulators protect live power connections from accidental shorts. **Several standards require that continuously charged connections must be protected from accidental shorts,** which our product range fulfills. Our insulators are available in red and black, in various materials and sizes.

The 200 Series Terminal Insulators are designed to protect ring and lug terminals.
They are available in sizes from 12mm up to 34mm diameter and are manufactured from PVC, which has a 105°C temperature rating.
Optional features include extended length for longer terminals and can be manufactured in 2 colours.
While the 200 Series line is commonly used on inverters, starters, windlasses, chargers and other high energy connections, it also works for many applications and helps your products comply with industry safety standards.





212 Series
12mm Terminal O.D.*
18 - 2 gauge Cable



214 Series
14mm Terminal O.D.*
18 - 2 gauge Cable



216 Series
16mm Terminal O.D.*
18 - 2 gauge Cable



218 Series
18mm Terminal O.D.*
18 - 2 gauge Cable



220 Series
20mm Terminal O.D.*
18 - 2/0 gauge Cable



222 Series
22mm Terminal O.D.*
18 - 2/0 gauge Cable



224 Series
24mm Terminal O.D.*
18 - 2/0 gauge Cable



226 Series
26mm Terminal O.D.*
18 - 2/0 gauge Cable



228 Series
28mm Terminal O.D.*
18 - 2/0 gauge Cable



230 Series
30mm Terminal O.D.*
18 - 2/0 gauge Cable



232 Series
32mm Terminal O.D.*
18 - 4/0 gauge Cable



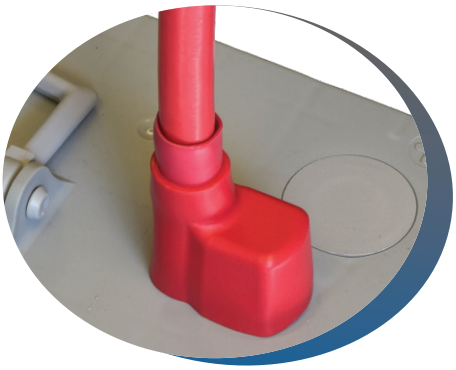
234 Series
34mm Terminal O.D.*
18 - 4/0 gauge Cable

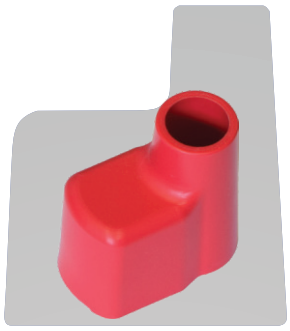
The 200 Series Terminal Insulators work with stud and eyelet terminals.
This Series can be ordered with an extended (E) length for longer terminals.

 # MoQ's May Apply

TERMINAL INSULATORS

GAUGING TEMPLATE FOR 690 & 960 SERIES

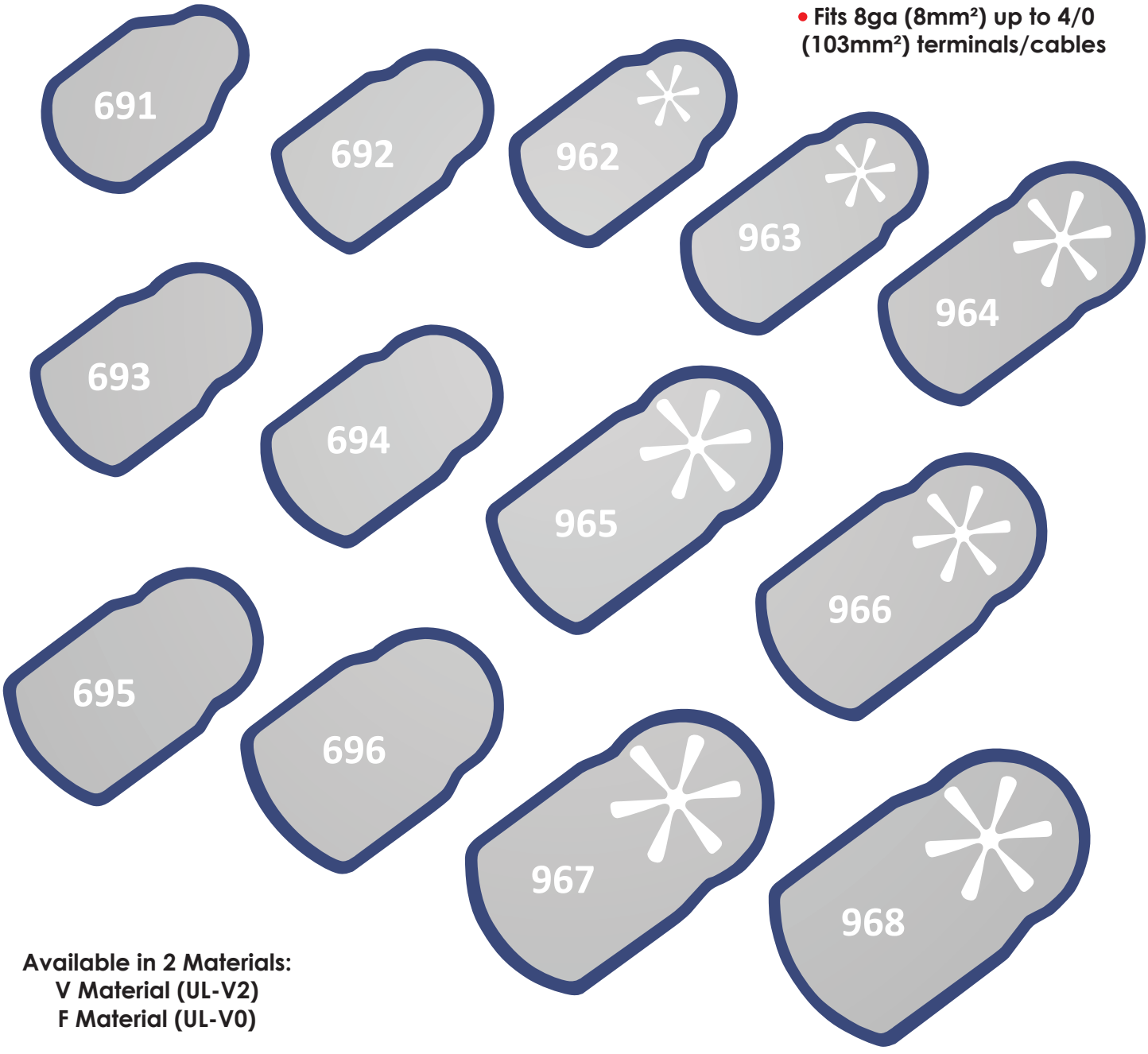






Insulators for Right Angle (90 Degree) Terminals

- Protect right angle terminals in confined spaces
- Fits 8ga (8mm²) up to 4/0 (103mm²) terminals/cables



Available in 2 Materials:
V Material (UL-V2)
F Material (UL-V0)

TERMINAL INSULATORS

SIZING CHART FOR 690 & 960 SERIES

690 Series

MEDIUM DUTY LUG & RING TERMINAL INSULATORS

Part Number	Cable Opening	Terminal Width	Terminal Length	*Rated Size*	Colour
691N9V02	7.87mm	19.69mm	28.7mm	8 - 19mm²	Red
691N9V14	7.87mm	19.69mm	28.7mm	8 - 19mm²	Black
692N9V02	12.34mm	19.56mm	27.38mm	32 - 40mm²	Red
692N9V14	12.34mm	19.56mm	27.38mm	32 - 40mm²	Black
693N9V02	13.72mm	20.83mm	28.83mm	50mm²	Red
693N9V14	13.72mm	20.83mm	28.83mm	50mm²	Black
694N9V02	14.73mm	21.34mm	30.23mm	60mm²	Red
694N9V14	14.73mm	21.34mm	30.23mm	60mm²	Black
695N9V02	16.41mm	23.37mm	31.95mm	81mm²	Red
695N9V14	16.41mm	23.37mm	31.95mm	81mm²	Black
696N9V02	17.78mm	25.91mm	30.99mm	103mm²	Red
696N9V14	17.78mm	25.91mm	30.99mm	103mm²	Black


691N9V02


692N9V02


693N9V02


694N9V02


695N9V02


696N9V02

960 Series

HEAVY DUTY LUG & RING TERMINAL INSULATORS

Part Number	Cable Opening	Terminal Width	Terminal Length	*Rated Size*	Colour
962N9V02	10.67mm	19.43mm	29.97mm	13mm²	Red
962N9V14	10.67mm	19.43mm	29.97mm	13mm²	Black
963N9V02	11.94mm	19.05mm	34.16mm	19mm²	Red
963N9V14	11.94mm	19.05mm	34.16mm	19mm²	Black
964N9V02	16.92mm	20.62mm	34.62mm	32 - 40mm²	Red
964N9V14	16.92mm	20.62mm	34.62mm	32 - 40mm²	Black
965N9V02	18.34mm	22.91mm	37.8mm	50mm²	Red
965N9V14	18.34mm	22.91mm	37.8mm	50mm²	Black
966N9V02	17.93mm	24.51mm	38.18mm	60mm²	Red
966N9V14	17.93mm	24.51mm	38.18mm	60mm²	Black
967N9V02	22.17mm	27.53mm	38.23mm	81mm²	Red
967N9V14	22.17mm	27.53mm	38.23mm	81mm²	Black
968N9V02	22.17mm	29.46mm	40.51mm	103mm²	Red
968N9V14	22.17mm	29.46mm	40.51mm	103mm²	Black


962N9V02


963N9V02


964N9V02


965N9V02


966N9V02


967N9V02


968N9V02

TERMINAL INSULATORS

LUG & RING

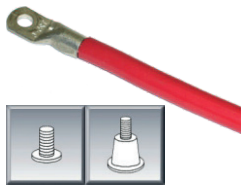
A more comprehensive line of Insulators offering a wider variety of Lug and Ring protection. Our Lug & Ring Insulators can be used with starters, generators, alternators, solenoids and other devices. These insulators are available in different sizes, shapes , materials and colours, providing specific solutions to your exact needs.



Part No.	Cable Entry Size
258N4	Round, 3/0 - 4/0
258N9	Oval, up to 4/0

258 Series

- The 258 Series protects large terminal connections.
- Terminal Outside Diameter: 58.7mm [2.3"]
- Max Post Height: 50.8mm [2.0"]
- Accepts multiple cables, up to 1/0 ga each.

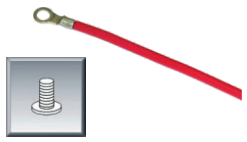




Part No.	Cable Entry Size
216T8	6.9mm [.27"]

216T Series

- The 216T Series is a snap-on insulator and can be removed without cable.
- Terminal Outside Diameter: 16.3mm [0.64"]
- Maximum Post Height: 18.8mm [0.74"]

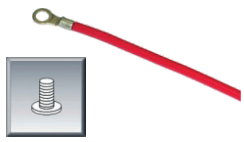




Part No.	Cable Entry Size
400N7	7.9mm [.31"]
400N9	11.2mm [.44"]
400E4	4.6mm [.18"]

400 Series

- The 400 Series is designed to cover a post, eyelet or ring terminal.
- Terminal Outside Diameter: 15.2mm [0.6"]
- Maximum Post Height: 22.4mm [0.88"]

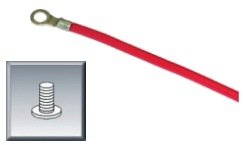




Part No.	Cable Entry Size
405N1	3.3mm [.13"]
405N2	7.6mm [.30"]
405N9	12.7mm [.50"]
406N3	4.1mm [.16"]
406N9	19.0mm [.75"]

405 / 406 Series

- The 405 & 406 Series have a low profile and flattened cap, designed to work in tight fitting areas.
- Terminal Outside Diameter: 25.4mm [1.0"]
- Maximum Post Height: 24.8mm [0.98"]

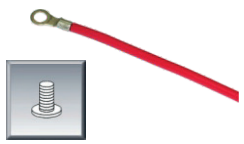




Part No.	Cable Entry Size
407N6	12.7mm [.50"]
407N8	15.7mm [.62"]

407 Series

- The 407 Series is designed to work with a single eyelet, ring terminal and post.
- Terminal Outside Diameter: 17.53mm [0.69"]
- Maximum Post Height: 25.8mm [1.01"]

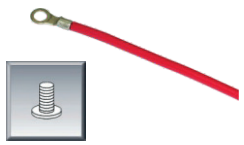




Part No.	Cable Entry Size
470N9	15.9mm [.63"]

470 Series

- The 470 Series is designed to work with a single eyelet, ring terminal and post.
- Terminal Outside Diameter: 21.6mm [0.85"]
- Maximum Post Height: 26.9mm [1.06"]

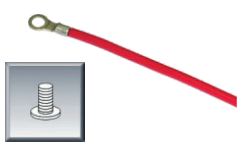




Part No.	Cable Entry Size
485N9	6.4mm [.25"]

485 Series

- The 485 Series is designed to cover a post and single eyelet or ring terminal.
- Terminal Outside Diameter: 12.9mm [0.52"]
- Maximum Post Height: 11.4mm [0.45"]

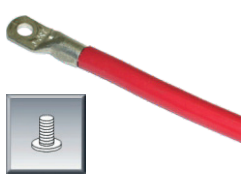




Part No.	Cable Entry Size
487N6	12.7mm [.5"]
487N7	15.2mm [.6"]
487N8	16.5mm [.65"]
487N9	19.0mm [.75"]
488N9	22.1mm [.87"]

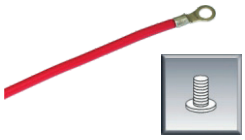
487 / 488 Series

- The 487 & 488 Series are designed to cover a post and single eyelet or ring terminal.
- Terminal Outside Diameter: 32mm [1.26"]
- Maximum Post Height: 24.9mm [0.98"]



TERMINAL INSULATORS

LUG & RING

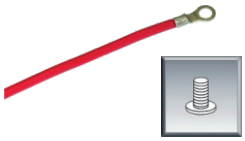


490 Series

- The 490 Series is designed for use with angled terminal connections.
- Terminal Outside Diameter: 19.1mm [0.75"]
- Maximum Post Height: 27.2mm [1.07"]

Part No.	Cable Entry Size
490N9	12.7mm [.5"]





510 Series

- The 510 Series is useful for protecting solenoid type connections.
- Terminal Outside Diameter: 12.7mm [0.5"]
- Maximum Post Height: 20.3mm [0.8"]

Part No.	Cable Entry Size
510N9	6.4mm [.25"]



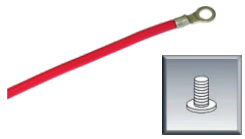


600 Series

- The 600 Series features a large insulator cap allowing for several connections.
- Available in 7 different cable entries and accepts up to 4/0 awg cables.
- Terminal Outside Diameter: 40mm [1.57"]
- Maximum Post Height: 41.1mm [1.62"]

Part No.	Cable Entry Size
600N1	(1) 7.9mm [.31"]
600N2	(2) 7.9mm [.31"]
600N3	(1) 12.7mm [.5"]
600N4	(2) 12.7mm [.5"]
600N5	(1) 15.8mm [.62"]
600N6	(2) 15.8mm [.62"]
600N7	Oval up to 4/0 ga



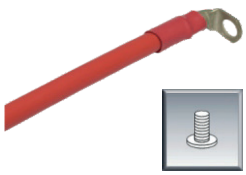


620 Series

- The 620 Series is designed with a finger pull tab on cap for easy removal.
- Terminal Outside Diameter: 19.1mm [0.75"]
- Maximum Post Height: 16.8mm [0.66"]

Part No.	Cable Entry Size
620N4	3.3mm [.13"]





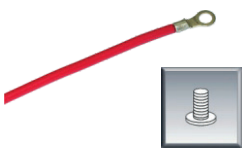
690 Series

- The 690 Series is suited for medium duty right angle terminals and protects terminals located in confined spaces.
- Accepts 8ga to 4/0ga terminals (8 - 103mm²)

Refer to gauging template & sizing chart on pages 5 & 6

Part No.	Cable Entry	Terminal Footprint
691N9	3.9mm	19.7 x 28.7mm
692N9	6.2mm	19.6 x 27.4mm
693N9	6.9mm	20.8 x 28.8mm
694N9	7.4mm	21.3 x 30.2mm
695N9	8.2mm	23.4 x 32mm
696N9	8.9mm	25.9 x 31mm



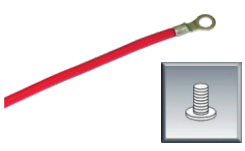


800 Series

- The 800 Series is specifically designed with a retaining ring inside the cap which holds the terminal base.
- Terminal Outside Diameter: 18.5mm [0.73"]
- Maximum Post Height: 26.2mm [1.03"]

Part No.	Cable Entry Size
800N3	4.3mm [.17"]
800N4	4.3mm [.17"]
800N5	5.3mm [.21"]
800N8	7.9mm [.31"]
800N9	12.7mm [.50"]





801 Series

- The 801 Series is suited for single sized cable with an eyelet or ring terminal.
- Terminal Outside Diameter: 19.1mm [0.75"]
- Maximum Post Height: 26.2mm [1.03"]

Part No.	Cable Entry Size
801N8	7.9mm [.31"]





960 Series

- The 960 Series is designed for use with heavy duty right angle terminals and protects terminals in confined spaces.
- Accepts 8ga to 4/0ga terminals (8 - 103mm²)

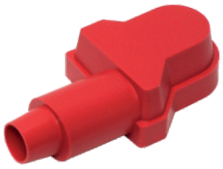
Refer to gauging template & sizing chart on pages 5 & 6

Part No.	Cable Entry	Terminal Footprint
962N9	5.3mm	19.4 x 30.0mm
963N9	6.0mm	19.1 x 34.2mm
964N9	8.5mm	20.6 x 34.6mm
965N9	9.2mm	22.9 x 37.8mm
966N9	9.0mm	24.5 x 38.2mm
967N9	11.1mm	27.5 x 38.2mm
968N9	11.1mm	29.5 x 40.5mm



TERMINAL INSULATORS

We manufacture a complete line of Battery Terminal Insulators. These Insulators are designed for use in marine, commercial, industrial and automotive fields.
Our Battery Terminal Insulators offer solutions in single and multiple cables and are available in various materials, sizes and colours #.

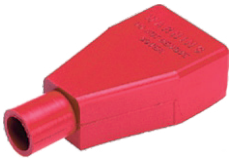


Part No.	Cable Entry Size
409N2	7.2mm [.29"]
409N3	12.7mm [.50"]
409N9	7.6mm [.30"]

409 Series

- The 409 Series is designed to protect stamped wrap battery terminals.
- Maximum Post Height: 21.0mm [0.83"]
- Cable Entry: 8 ga - 1/0 ga





Part No.	Cable Entry Size
415N6	9.4mm [.37"]
415N7	11.2mm [.44"]
415N8	12.7mm [.50"]
415N9	15.9mm [.62"]
415N0	19.1mm [.75"]

415 Series

- The 415 Series is suited to protect tapered style battery terminals.
- Maximum Post Height: 18.8mm [0.74"]
- Cable Entry: 1/0 ga - 2/0 ga





Part No.	Cable Entry Size
416N9	16.0mm [.63"]

416 Series

- The 416 Series is a popular solution for battery terminal installation.
- Maximum Post Height: 19.3mm [0.76"]
- Cable Entry: 16.0mm [0.63"]





Part No.	Cable Entry Size
417N9	12.7mm [.50"]

417 Series

- The 417 Series is a snap on insulator which can be removed without cable.
- Maximum Post Height: 23.1mm [0.91"]
- Cable Entry: 1 - 1/0 ga





Part No.	Cable Entry Size
430N7	14.2mm [.56"]
430N8	17.3mm [.68"]

430 Series

- The 430 Series is designed to protect tapered style battery posts.
- Maximum Post Height: 21.1mm [0.83"]
- Cable Entry: 2/0, 3/0 ga





Part No.	Cable Entry Size
455N4	10.0mm [.4"]
455N6	12.7mm [.5"]
455N8	19.1mm [.75"]

455 Series

- The 455 Series is suited to protect a dual post battery, the insulator snaps easily onto the cable and can be fastened with a zip-tie.
- Accepts multiple cables of different sizes.





Part No.	Cable Entry Size
458N0	N/A

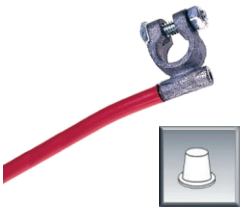
458 Series

- The 458 Series is designed for a dual post battery and the attached cover can insulate the post when not in use.
- Often used with 226 Series Insulator.



 # MoQ's May Apply

TERMINAL INSULATORS



500 Series

- The 500 Series is the popular choice for battery terminal protection.
- Available in left, right and dual entry cable options.

Part No.	Cable Entry Size
500L7	12.7mm [.50"]
500L9	17.5mm [.69"]
500R7	12.7mm [.50"]
500R9	17.5mm [.69"]
500D7	12.7mm [.50"]
500D9	17.5mm [.69"]
500B	N/A



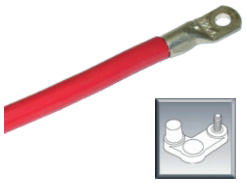


553 Series

- The 553 Series is designed to protect side post battery terminal connections.
- Featuring a retaining loop that keeps the insulator with the battery or cable.
- Available with 2 cable entries.

Part No.	Cable Entry Size
553X6	15.0mm [.59"]
553X9	22.9mm [.90"]



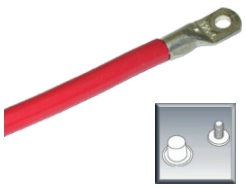


460 Series

- The 460 Series is a dual post battery insulator that specifically fits the Exide Group 32 marine battery.
- Featuring a tabbed finger grip for easy removal and allows for a secondary battery connection.

Part No.	Cable Entry Size
460N9	N/A





462 / 463 Series

- The 462 & 463 Series are designed to protect dual post battery terminals, used in the marine industry.
- Terminal connection centre to centre: 43.69mm
- The attached caps cover the post when not in use.

Part No.	Colour	Entry Size
462N0	Black	N/A
463N0	Red	N/A



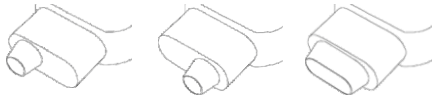


466 Series

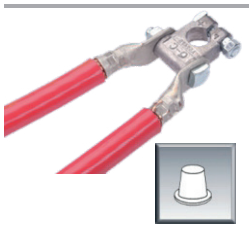
- The 466 Series has been designed to protect large heavy duty battery terminals.
- Available in left, right and dual cable entries.

Part No.	Cable Entry Size
466L1, R1	3.3mm [.13"]
466L2, R2	7.6mm [.30"]
466L3, R3	12.7mm [.50"]
466N9	Oval up to 4/0 ga





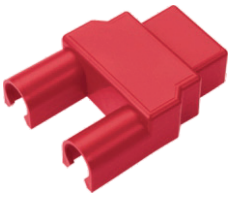
Left Entry *Right Entry* *Oval Entry*



468 Series

- The 468 Series protects large heavy duty battery terminals and has been designed to snap onto the terminal and cable allowing for easy access.
- Available in left, right and dual cable entries.

Part No.	Cable Entry Size
468L9	20.8mm [.82"]
468R9	20.8mm [.82"]
468D9	20.8mm [.82"]



TERMINAL INSULATORS



Part No. Black	Part No. Red	Cable Entry Size
730N1	731N1	(1) 7.9mm [.31"]
730N2	731N2	(2) 7.9mm [.31"]
730N3	731N3	(1) 12.7mm [.5"]
730N4	731N4	(2) 12.7mm [.5"]
730N5	731N5	(1) 15.8mm [.62"]
730N6	731N6	(2) 15.8mm [.62"]
730N7	731N7	Oval up to 4/0 ga

730 / 731 Series

- The 730 (Black) & 731 (Red) Series are suited to protect large wing nut type terminal connections.
- The top swivels to accommodate cables from various directions.
- Top insulator offers single, dual and multiple cable entries.

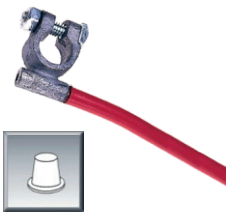




Part No.	Cable Entry Size
843L8	11.2mm [.44"]
843L9	12.7mm [.50"]
843R8	11.2mm [.44"]
843R9	12.7mm [.50"]

843 Series

- The 843 Series is designed to cover a tapered battery post.
- Available in left and right cable entry.
- Maximum Post Height: 20.1mm [0.79"]

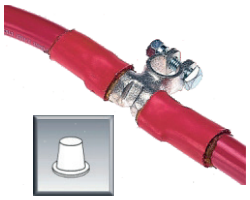




Part No.	Cable Entry Size
900L9	16.0mm [.63"]
900R9	16.0mm [.63"]
900D9	16.0mm [.63"]

900 Series

- The 900 Series is a popular solution to cover cast-on lead terminals.
- Available in left, right and dual cable entry.
- Cable entry can be cut and zip-tied for up to 4/0 awg.





Part No.	Cable Entry Size
974N9	20.3mm [.80"]

974 Series

- The 974 Series protects large battery terminal connections.
- Maximum Post Height: 29.9mm [1.18"]
- Cable Entry: Large -20.3 mm [0.8"] diameter

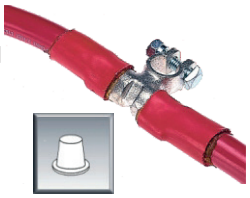




Part No.	Cable Entry Size
975D8	20.3mm [.80"]

975 Series

- The 975 Series is designed to protect large battery terminal connections.
- Features large cable entry for flag or right angle terminals.
- Cable Entry: Up to 4/0 ga





Part No.	Cable Entry Size
976N8	20.3mm [.80"]

976 Series

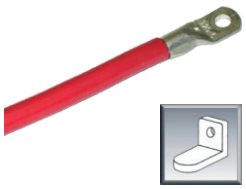
- The 976 Series is suited to protect large battery terminal connections, the triple cable entry allows for 3 cable connections.
- Cable Entry: Up to 4/0 ga



TERMINAL INSULATORS

L-POSTS

L-Post Terminal Insulators protect Flag terminals and L-Post terminals from accidental shorts and adverse weather. Protect your connections, comply with industry safety standards, and improve the look of your cabling, wiring and terminal connections.

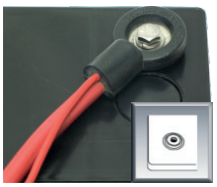


433 Series

- The 433 Series is a large insulator and is suited to protect large L-Post terminal connections.
- Available with left and right entry.
- Maximum Post Height: 26.4mm [1.04"]

Part No.	Cable Entry Size
433L5	11.2mm [.44"]
433R5	11.2mm [.44"]



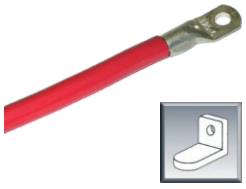


436 Series

- The 436 Series is designed to protect flat threaded or low profile posts.
- The insulator snaps onto the cable and can be secured with a zip-tie.
- Maximum Post Height: 19.1mm [0.75"]

Part No.	Cable Entry Size
436N4	9.2mm [.36"]
436N5	12.2mm [.48"]
436N7	16.2mm [.64"]
436S4	9.0mm [.35"]
436S5	12.2mm [.48"]



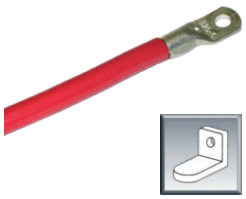


437 Series

- The 437 Series is similar to the 436 Series but suits a greater terminal height.
- The insulator snaps onto the cable and can be secured with a zip-tie.
- Maximum Post Height: 32.5mm [1.28"]

Part No.	Cable Entry Size
437N4	9.3mm [.36"]
437N5	11.4mm [.46"]
437N7	12.3mm [.48"]
437S5	10.0mm [.40"]



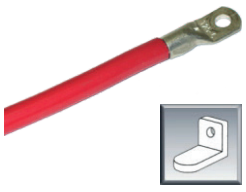


439 Series

- The 439 Series has a large design allowing the fitting of various terminals.
- The insulator snaps onto the cable and can be secured with a zip-tie.
- Maximum Post Height: 32.5mm [1.28"]

Part No.	Cable Entry Size
439N5	9.6mm [.38"]



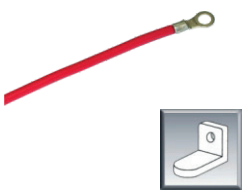


444 Series

- The 444 Series protects smaller L-Post and Flag battery connections.
- Available in left or right entry cable.
- Maximum Post Height: 30.5mm [1.2"]

Part No.	Cable Entry Size
444L6	7.6mm [.30"]
444R6	7.6mm [.30"]
444L8	9.4mm [.37"]
444R8	9.4mm [.37"]
444L9	11.2mm [.44"]
444R9	11.2mm [.44"]





799 Series

- The 799 Series is suited to protect L-Post and Flag battery connections.
- The insulator snaps onto the cable and can be secured with a zip-tie.
- Maximum Post Height: 38.3mm [1.51"]

Part No.	Cable Entry Size
799L9	6.4mm [.25"]
799R9	6.4mm [.25"]
799D9	6.4mm [.25"]



TERMINAL INSULATORS

SPECIALTY

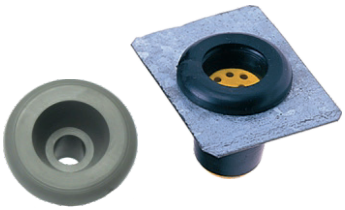
We manufacture a large range of Specialty Insulators, to fit many unusual applications. We offer insulators for power connectors, circuit breakers, cable entry points and many other solutions. Many solutions are engineered from customer inquiries, filling any void in the industry.



Part No.	Cable Entry Size
310N4	6.4mm [.25"]
310N6	7.1mm [.28"]
310N7	9.7mm [.38"]
310N8	10.2mm [.40"]
310N9	12.7mm [.50"]

310 Series

- Grommet used to seal off cable entry holes
- Protects cables from sharp edges
- Fits Hole Diameter: 25.4mm [1.0"]
- Outer Diameter: 39.1mm [1.54"]





Part No.	Cable Entry Size
311N9	20.3mm [.80"]

311 Series

- Grommet used to seal off cable entry holes
- Protects cables from sharp edges
- Fits Hole Diameter: 25.4mm [1.0"]
- Maximum Panel Thickness: 1.5mm [0.06"]





Part No.	Cable Entry Size
321N9	34.8mm [1.37"]

321 Series

- Commonly used with our Auxiliary Power Connector
- Insulator cover has retaining ring
- Cap has retainer entry width of 30.48mm



Part No.	Cable Entry Size
375T5	15.2mm x 30.5mm

375 Series

- Protective covers for 7753N7 - 3 Point High Amp Busbar
- Cable entry allows 2/0, up to 4/0 ga cable
- Insulator snaps onto cable

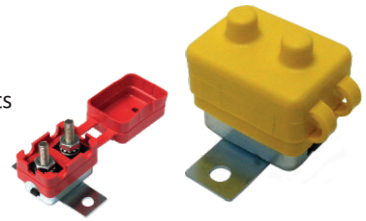




Part No.	Cable Entry Size
464N0	6.2mm [.24"]

464 Series

- Protective covers for small circuit breakers
- Removable side entries to customise application
- Top cover presses down onto circuit breaker posts
- Made from fire retardant PVC





Part No.	Cable Entry Size
479A9	16.0mm [.63"]
479B9	19.6mm [.77"]
479N9	N/A

479 Series

- Protective disk for various uses in our insulators
- Available in 2 entry hole sizes or without entry hole
- For use with 778 Series Post, 480 Series and 476 Series



TERMINAL INSULATORS

550 Series



- Protects engine senors
- Generous height and downward wire exit
- Retainer lip keeps insulator in place
- Wall Thickness: 1.0mm [0.03"]

Part No.	Cable Entry Size
550N6	6.4mm [.25"]
550N9	9.5mm [.38"]



560 Series



- Protects engine senors
- Generous height and downward wire exit
- Retainer lip keeps insulator in place
- Wall Thickness: 2.8mm [0.11"]

Part No.	Cable Entry Size
560N4	6.4mm [.25"]



621 Series

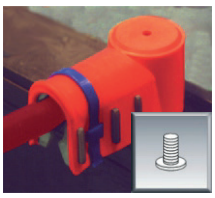


- Small straight sensor cover
- Moulded in ring provides greater strength
- Typically used with oil & water temperature sensors
- Material options allow the 621 to be used in high temperature environment

Part No.	Cable Entry Size
621N9	6.4mm [.25"]



725 Series



- Accepts terminals up to 24mm
- Tunnel cap allows for various cable entry sizes and shapes
- Maximum Terminal O.D: 24mm [0.94"]
- Maximum Terminal Height: 25.3mm [0.99"]

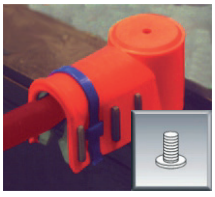
Part No.	Cable Entry Size
224T9	Various Inserts



Ref to Website Chart for Sizes & Functionality



729 Series



- Accepts terminals up to 28mm
- Tunnel cap allows for various cable entry sizes and shapes
- Maximum Terminal O.D: 28mm [1.10"]
- Maximum Terminal Height: 30.7mm [1.20"]

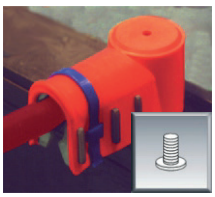
Part No.	Cable Entry Size
228T9	Various Inserts



Ref to Website Chart for Sizes & Functionality



735 Series



- Accepts terminals up to 34mm
- Tunnel cap allows for various cable entry sizes and shapes
- Maximum Terminal O.D: 34mm [1.52"]
- Maximum Terminal Height: 38.6mm [1.30"]

Part No.	Cable Entry Size
234T9	Various Inserts



Ref to Website Chart for Sizes & Functionality



TERMINAL INSULATORS

SPECIALTY



Part No.	Cable Entry Size
795	17.8mm [.7"]

795 Series

- Snap on top allows access to connection points
- Works great with the 770 and 771 Series Power Posts
- Single Entry Diameter: 17.8mm [0.7"]





Part No.	Cable Entry Size
830N0	N/A

830 Series

- Cover for 50 Amp Anderson or SMH 2 Pole battery
- Loop end retains insulator to cable
- Made from fire-redardant PVC

Colours Available:





Part No.	Cable Entry Size
831N0	N/A

831 Series

- Cover for 175 Amp Anderson or SMH 2 Pole battery
- Loop end retains insulator to cable
- Made from fire-redardant PVC

Colours Available:





Part No.	Cable Entry Size
832N0	N/A

832 Series

- Cover for 350 Amp Anderson or SMH 2 Pole battery
- Loop end retains insulator to cable
- Made from fire-redardant PVC

Colours Available:





Part No.	Cable Entry Size
840N9	6.4mm [.25"]

840 Series

- Small right angle sensor cover, used with oil and water temperature sensors
- Body Opening: 20.6mm [0.81"]
- Cable Entry: 6.4mm [0.25"]





Part No.	Cable Entry Size
956D9	17.8mm [.7"]

956 Series

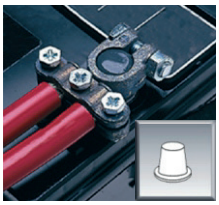
- Protect connection points or battery array connections
- Top lid allows for easy access to connection point
- Accepts up to 2/0 cables



TERMINAL INSULATORS

ADAPTER

Adapter Insulators protect terminals that can detach the cable from the terminal, commonly found in the marine industry. Our terminal insulators help your company comply with various industry safety standards.



419 Series

- The 419 Series is designed to protect multiple cable terminals.
- The insulator can slide back and forth to enable access to cable connections.
- Cable Entry: 13.8mm [0.53"]

Part No.	Cable Entry Size
419N9	Open up to 1/0 ga



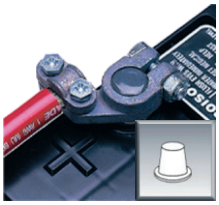


421 Series

- The 421 Series is suited to protect offset battery terminals.
- Designed for use with negative terminals (black).
- Cable Entry: 15.2mm [0.60"]

Part No.	Cable Entry Size
421N9	15.2mm [.60"]





422 Series

- The 422 Series is designed for offset battery terminals.
- Commonly used on positive terminals (red).
- Cable Entry: 15.2mm [0.60"]

Part No.	Cable Entry Size
422N9	15.2mm [.60"]



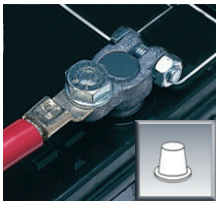


456 Series

- The 456 Series offers protection on marine battery terminals.
- Works with bolt-on / wing-nut battery terminals.
- Accepts single or multiple cables.

Part No.	Cable Entry Size
456N9	Oval up to 4/0 ga





457 Series

- The 457 Series provides protection on marine battery terminals.
- Works with bolt-on / wing-nut battery terminals.
- Available in 3 sizes

Part No.	Cable Entry Size
457N1	2.8mm [.11"]
457N2	8.1mm [.32"]
457N3	14.0mm [.55"]



TERMINAL INSULATORS

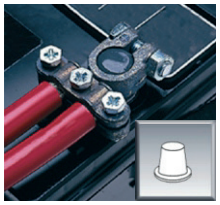
ADAPTER



Part No.	Cable Entry Size
451N9	Open up to 1/0 ga

451 Series

- The 451 Series protects multiple cable adapter terminals.
- The insulator snaps onto the cable enabling easy removal.
- Cable Entry: 13.8mm [.53"]





Part No.	Cable Entry Size
453L9	Open up to 1/0 ga
453D9	Open up to 1/0 ga

** 'D' Version allows cable to pass through insulator to next connection.*

453 Series

- The 453 Series is designed to protect offset adapter battery terminals.
- Commonly used with negative (black) terminals.
- Cable Entry: 12.7mm [.50"]



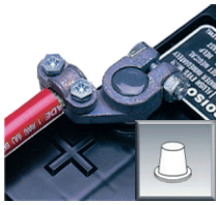


Part No.	Cable Entry Size
454R9	Open up to 1/0 ga
454D9	Open up to 1/0 ga

** 'D' Version allows cable to pass through insulator to next connection.*

454 Series

- The 454 Series is suited to protect offset adapter battery terminals.
- Commonly used with positive (red) terminals.
- Cable Entry: 12.7mm [.50"]

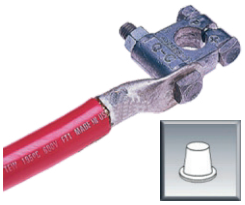




Part No.	Cable Entry Size
776N7	10.7mm [.42"]
776N8	15.8mm [.62"]
776N9	20.8mm [.82"]

776 Series

- The 776 Series protects heavy duty battery terminals.
- Features a weatherproof insulator / cover kit.
- Can be used with filling material to make a waterproof solution.
- Includes 479 Series Disc:





Part No.	Cable Entry Size
484N9	4/0 ga + (30mm /1.18")

484 Series

- The 484 Series is designed to protect right angle terminals.
- Available in regular (V) material - Thermoplastic Rubber (T).
- Cable Entry: 4/0 ga + sized cables.



