



200 Series Lug & Ring Terminal Caps

The 200 Series terminal insulators are designed to protect ring and lug terminals. They are available in sizes from 12 mm up to 34 mm. They are manufactured from PVC, wich has a 105°C temperature rating.

TOD= Terminal Outside Diameter



212 Series 12 mm TOD 18 – 2 ga cable



214 Series 14 mm TOD 18 – 2 ga cable



216 Series 16 mm TOD 18 – 2 ga cable



218 Series 18 mm TOD 18 – 2 ga cable



220 Series 20 mm TOD 18 – 2/0 ga cable



222 Series 22 mm TOD 18 – 2/0 ga cable



224 Series 24 mm TOD 18 – 2/0 ga cable



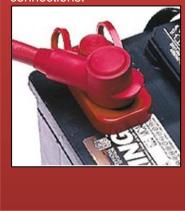
226 Series 26 mm TOD 18 – 2/0 ga cable



The 200 Series terminal insulators work with stud and eyelet terminals.

This series can have an extended length for longer terminals, and can be manufactured in 14 colors.

The 200 Series is commonly used on inverters, starters, windlasses, chargers, and other high energy connections.



228 Series 28 mm TOD 18 – 2/0 ga cable



230 Series 30 mm TOD 18 – 2/0 ga cable



232 Series 32 mm TOD 18 – 2/0 ga cable



234 Series 34 mm TOD 18 – 2/0 ga cable

Fax +32 9 362 91 35



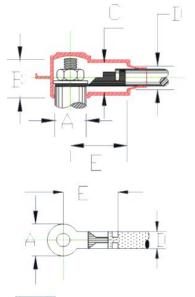
200 Series Lug & Ring Terminal Caps

Part Dimensions / Ordering Information

Dimensions

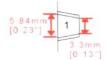
_	Α	В	С	D	E	Nominal
Base Part	Terminal	Post	Ins. Grip	Cable Entry	Terminal	Material
Number	O.D.	Height	Diameter	Options	Length	Thickness
-	(in/mm)	(in/mm)	(in/mm)	(See Chart)	(in/mm)	(in/mm)
TI 212N*	.48/12	.70/17.8	.5/12.7	1,2	1.0/25.4	.06/1.5
TI 212E*	.48/12	.70/17.8	.5/12.7	1,2	1.25/31.8	.06/1.5
TI 214N*	.55/14	.75/19.1	.5/12.7	1,2	1.0/25.4	.06/1.5
TI 214E*	.55/14	.75/19.1	.5/12.7	1,2	1.25/31.8	.06/1.5
TI 216N*	.65/16	.80/20.3	.5/12.7	1,2	1.0/25.4	.06/1.5
TI 216E*	.65/16	.80/20.3	.5/12.7	1,2	1.25/31.8	.06/1.5
TI 218N*	.73/18	.87/22.1	.5/12.7	1,2	1.0/25.4	.06/1.5
TI 218E*	.73/18	.87/22.1	.5/12.7	1,2	1.25/31.8	.06/1.5
TI 220N*	.81/20	.95/24.1	.7/17.8	1,2,3	1.32/33.5	.07/1.8
TI 220E*	.81/20	.95/24.1	.7/17.8	1,2,3	1.75/44.5	.07/1.8
TI 222N*	.87/22	1.05/26.7	.7/17.8	1,2,3	1.32/33.5	.07/1.8
TI 222E*	.87/22	1.05/26.7	.7/17.8	1,2,3	1.75/44.5	.07/1.8
TI 224N*	.95/24	1.13/28.7	.7/17.8	1,2,3	1.62/41.2	.08/2.0
TI 224E*	.95/24	1.13/28.7	.7/17.8	1,2,3	2.06/52.3	.08/2.0
TI 226N*	1.03/26	1.25/31.8	.7/17.8	1,2,3	1.62/41.2	.08/2.0
TI 226E*	1.03/26	1.25/31.8	.7/17.8	1,2,3	2.06/52.3	.08/2.0
TI 228N*	1.11/28	1.32/33.5	.75/19.1	1,2,3	1.75/44.5	.09/2.3
TI 228E*	1.11/28	1.32/33.5	.75/19.1	1,2,3	2.25/57.2	.09/2.3
TI 230N*	1.20/30	1.40/35.6	.75/19.1	1,2,3	1.75/44.5	.09/2.3
TI 230E*	1.20/30	1.40/35.6	.75/19.1	1,2,3	2.25/57.2	.09/2.3
TI 232N*	1.28/32	1.50/38.1	.9/22.9	1,2,3,4	1.75/44.5	.10/2.5
TI 232E*	1.28/32	1.50/38.1	.9/22.9	1,2,3,4	2.38/60.5	.10/2.5
TI 234N*	1.37/34	1.60/40.6	.9/22.9	1,2,3,4	1.75/44.5	.10/2.5
TI 234E*	1.37/34	1.60/40.6	.9/22.9	1,2,3,4	2.38/60.5	.10/2.5

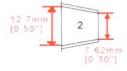


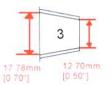


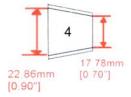


For use with stud-type terminal posts









Cable Gauges 18-10 0.8mm²

0.8mm² (3.24mm/0.13") to 5mm² (5.42mm/0.215")

Cable Gauges 8-2 8mm²

(6.98mm/0.28") to 32mm² (11.93mm/0.51")

Cable Gauges 2-2/0

32mm² (11.93mm/0.51") to 62mm² (16.0mm/0.66")

Cable Gauges 3/0-4/0

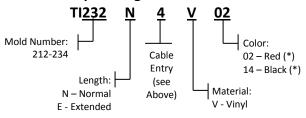
81mm² (18.3mm/0.75") to 103mm² (19.8mm/0.81")

Finding the correct insulation

- Determine your terminal's outside diameter (A above).
- 2. Determine your terminal's post height (B above).
- 3. Determine your terminal's cable entry (D above)

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

Sample 8 Digit Part Number





Lug & Ring Terminal Insulators

A more comprehensive line of insulators, offering a wider variety of lug and ring protection. Our lug and ring insulators can be used with starters, generators, alternators, solenoids, and other devices.

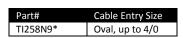




258 Series



- Protect large terminal connections from shorts
- Terminal Outside Dia: 2.3"/58.7mm
- Post height: 2.0"/50.8mm
- Inside grip Dia: .65"/16.6mm
- Can accept multiple cables, up to 1/0 ga each





216T Series



- Snap-on insulator, can be removed without cable
- Terminal outside dia: .64"/16.3mm
- Post height: .74"/18.8mm

Part#	Cable Entry Size
TI216T8*	.27"/6.9mm



400 Series



- Terminal outside dia: .6"/15.2mm
- Post height: .88"/22.4mm
- Inside grip dia: .44"/11.2mm
- Terminal length: 1.19"/30.3mm

Part#	Cable Entry Size
TI400N7*	.31"/7.9mm
TI400N9*	.44"/11.2mm
TI400E4*	.18"/4.6mm



405 Series



- Terminal outside Dia: 1.0"/25.4mm
- Post height: .98"/24.8mm
- Inside grip dia: .50"/12.7mm



Part#	Cable Entry Size
TI405N1*	.13"/3.3mm
TI405N2*	.30"/7.6mm
TI405N9*	.50"/12.7mm
TI406N3*	.16"/4.1mm
TI406N9*	.75"/19mm



470 Series



- Terminal outside dia: .85"/21.6mm
- Post height: 1.06"/26.9mm
- Inside grip dia: .63"/15.9mm
- Terminal length: 1.81"/46.0mm

Part#	Cable Entry Size
TI470N9*	.63"/15.9mm



485 Series



- Terminal outside dia: .52"/12.9mm
- Post height: .45"/11.4mmInside grip dia: .25"/6.4mm
- Cable entry: .25"/6.4mm

Part# Cable Entry Size
TI485N9* .25"/6.4mm



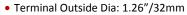
VANDAPOWER

Lug & Ring Terminal Insulators

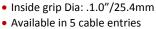








• Post height: .98"/24.9mm



NEW:488 Series



Part#	Cable Entry Size
TI487N6*	.5"/12.7mm
TI487N7*	.6"/15.2mm
TI487N8*	.65"/16.5mm
TI487N9*	.75"/19mm
TI488N9*	.87"/22.1mm

Cable Entry Size

.5"/12.7mm





Used for angled connections

• Terminal outside dia: .75"/19.1mm

• Post height: 1.07"/27.2mm

• Inside grip dia: .50"/12.7mm







• Terminal outside dia: .5"/12.7mm

• Post height: .8"/20.3mm

• Inside grip dia: .6.4-11.6mm Additional lead times may apply Cable Entry Size .25"/6.4mm

TI490N9*







• Terminal outside Dia: 1.57"/40mm

• Post height: .1.62"/41.1mm

• Inside grip dia: .65"/16.6mm

• Available in 7 cable entries

Part#	Cable E	Entry Size
TI600N1*	(1)	.31"/7.9mm
TI600N2*	(2)	.31"/7.9mm
TI600N3*	(1)	.5"/12.7mm
TI600N4*	(2)	.5"/12.7mm
TI600N5*	(1)	.62"/15.8mm
TI600N6*	(2)	.62"/15.8mm
TI600N7* Oval up to 4/0		o to 4/0



800 Series



• Terminal outside dia: .85"/21.6mm

• Post height: 1.06"/26.9mm

• Inside grip dia: .63"/15.9mm

• Terminal length: 1.81"/46.0mm

Part#	Cable Entry Size
TI800N4*	.17"/4.3mm
TI800N5*	.21"/5.3mm
TI800N8*	.31"/7.9mm
TI800N9*	.50"12.7mm



* V02= Red V14= Black



801 Series

- Terminal outside dia: .75"/19.1mm
- Post height: 1.03"/26.2mm • Inside grip dia: .37"/9.4mm
- Cable entry: .31"/7.9mm

Part#	Cable Entry Size
TI801N8*	.31"/7.9mm



Battery Terminal Insulators

The battery insulators are designed for use in marine, commercial, industrial and automotive fields. Our battery terminal insulators are available in various materials and colors.



409 Series



- Protect stamped or wrapped battery terminals
- Available in 2 cable entries
- Post height: .83"/21.0mm
- Cable entry: 8 ga -1/0 ga

Part#	Cable Entry Size
TI409N2*	.29"/7.2mm
TI409N3*	.50"/12.7mm



415 Series



- Protect tapered style battery posts
- Post height: .74"/18.8mm
- Cable entry:1/0 ga -2/0 ga
- Available in 4 entry sizes

Part#	Cable Entry Size
TI415N6*	.37"/9.4mm
TI415N7*	.44"/11.2mm
TI415N8*	.50"/12.7mm
TI415N9*	625"/15.9mm



416 Series



• Protect tapered style battery posts

• Post height: .76"/19.3mm

• Inside grip: .63"/16.0mm

Part#	Cable Entry Size
TI416N9*	.63"/16.0mm



417 Series



• Snap-on insulator, can be removed

without cable

Post height: .91"/23.1mmInside grip dia: .50"/12.7mm

• Cable entry: 1-1/0 ga

Part#	Cable Entry Size
TI417N9*	.50"/12.7mm



430 Series



- Protect tapered style battery posts
- Post height: .83"/21.1mm
- Inside grip dia: .56"/14.2mm
- Cable entry: 2/0-3/0 ga

Part#	Cable Entry Size
TI430N7*	.56"/14.2mm
TI430N8*	.68"/17.3mm

455 Series



* V02= Red V14= Black



- Insulator for dual post battery
- Insulator snaps onto cable, and can be fastened with zip-tie
- Can accept multiple cables, of different sizes

Part#	Cable Entry Size
TI455N4*	.4"/10mm
TI455N6*	.5"/12.7mm
TI455N8*	.75"/19.1mm



Battery Terminal Insulators













* V02= Red V14= Black

458 Series



- Insulator for dual post battery
- Attached cover can insulate post when not in use
- Often used with 226 Series Cap

Part#	Cable Entry Size
TI458N0*	n/a

500 Series



- Protect angle battery terminals
- · Left, right, and dual cable entry
- Available in 2 sizes

Part#	Cable Entry Size
TI500L7*	.5"/12.7mm
TI500L9*	.69"/17.5mm
TI500R7*	.5"/12.7mm
TI500R9*	.69"/17.5mm
TI500D7*	.5"/12.7mm
TI500D9*	.69"/17.5mm

553 Series



- Protect side post battery connection
- Available in two sizes

Part#	Cable Entry Size
TI553X6*	.59"/15.0mm
TI553X9*	.90"/22.9mm

460 Series



- Protect marine battery, Exide 32
- Tabbed finger grip, for easy removal
- Available for positive and negative
- Allows for secondary battery connection
- Part# Cable Entry Size
 TI460N9* n/a

462 Series



- Protect dual-post battery terminals
- Often used in marine industry
- Attached cap covers post when not in use

Part#	Cable Entry Size
TI462N0*	n/a

466 Series



- Protect heavy duty battery terminal
- Inside grip dia: .42"/10.7mm
- Cable entry:







Part#	Cable Entry Size
TI466L1,R1*	.13"/3.3mm
TI466L2,R2*	.30"/7.6mm
TI466L3,R3*	.50"/12.7mm
TI466N9*	Oval up to 4/0 ga

468 Series



- Protect heavy duty battery terminal
- Accepts right, left, and dual cable
- Snaps onto terminal & cable
- Accepts up to 4/0 ga cables

Part#	Cable Entry Size
TI468L9*	.82"/20.8mm
TI468R9*	.82"/20.8mm
TI468D0*	82"/20 8mm

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Battery Terminal Insulators











- Protect marine wing-nut terminals
- Top insulator swivels to accommodate different cable direction
- Several cable entries
- Top insulator offers single, dual,

Red	Black	Cable Entry Size
TI3014	TI4013	(1).31"/7.9mm
TI3024	TI4023	(2).31"/7.9mm
TI3034	TI4033	(1).5"/12.7mm
TI3044	TI4043	(2).5"/12.7mm
TI3054	TI4053	(1).62"/15.8mm
TI3064	TI4063	(2).62"/15.8mm
TI3074	TI4073	Oval up to 4/0 ga

843 Series



- Protect tapered battery post
- Left, right and duals cable entry
- Post height: .79"/20.1mm

Part#	Cable Entry Size
TI843L8*	.44"/11.2mm
TI843L9*	.50"/12.7mm
TI843R8*	.44"/11.2mm
TI843R9*	.50"/12.7mm
TI843D8*	.44"/11.2mm
TI843D9*	.50"/12.7mm

900 Series



- Protect tapered battery post
- Left, right and dual cable entry
- Cable entry ring can utilize zip-tie, securing insulator
- Cable entry: up to 3/0 ga (4/0 ga when cut and ziptied)

Part#	Cable Entry Size
TI900L9*	.63"/16.0mm
TI900R9*	.63"/16.0mm
TI900D9*	.63"/16.0mm





975 Series



- Heavy duty cable series
- Cable entry accepts double cable
- Wide cable entry for large cable
- Cable entry: up to 4/0 ga

Part#	Cable Entry Size
TI975D8	.80"/20.3mm

976 Series



- Heavy duty cable series
- Triple cable entry permits 3 cables
- Wide cable entry for large cables
- Cable entries can be blocked
- Cable entry: up to 4/0 ga

Part#	Cable Entry Size
TI976N8	.80"/20.3mm

* V02= Red V14= Black



L-Post Terminal Insulators

This series of insulators is designed to protect L- Post terminals, or Flag terminals.



433 Series



- Protect L-Post battery terminals
- Available with left & right entry
- Cable entry: .44"/11.2mm
- Post height: 1.04"/26.4mm

Part#	Cable Entry Size
TI433L5*	.44"/11.2mm
TI433R5*	.44"/11.2mm

436 Series



- Protect flat threaded battery posts
- Also protect low-profile L-Post
- Insulator snaps onto cable
- Can be secured to cable with ziptie
- Available without shroud
- Post height: .75"/19.1mm

Part#	Cable Entry Size
TI436N4*	.36"/9.2mm
TI436N5*	.48"/12.2mm
TI436N7*	.64"/16.2mm
TI436S4*	.35"/9.0mm
TI436S5*	.48"/12.2mm





- Protect L-post battery terminals
- Insulator snaps onto cable
- Can be secured to cable with a ziptie
- Availble without shroud
- Post height: 1.28"/32.5mm

Part#	Cable Entry Size
TI437N4*	.36"/9.3mm
TI437N5*	.46"/11.4mm
TI437N7*	.48"/12.3mm
TI437S5*	.40"/10.0mm

Cable Entry Size

.38"/9.6mm

Part#

TI439N5*

439 Series



- Protect L-Post battery terminals
- Isolator snaps onto cable
- Can be secured to cable with ziptie
- Available without shroud
- Post height: 1.28"/32.5mm









- Protect smaller L-Post terminals
- Available with left of richt entry
- Post height: 1.2"/30.5mm

Part#	Cable Entry Size
TI444L6*	.30"/7.6mm
TI444R6*	.30"/7.6mm
TI444L8*	.37"/9.4mm
TI444R8*	.37"/9.4mm
TI444L9*	.44"/11.2mm
TI444R9*	.44"/11.2mm

799 Series



- Protect smaller L-Post battery terminals
- Left, Right and duals cable entry
- Post height: 1.51"/38.3mm
- Cable entry: .25"/6.4mm

Part#	Cable Entry Size
TI799L9*	.25"/6.4mm
TI799R9*	.25"/6.4mm
TI799D9*	.25"/6.4mm







- Protect heavy duty L-Post terminals
- Covers exposed terminal base
- Typically used with 433 Series

Part#	Cable Entry Size
TI481N9*	n/a

* V02= Red V14= Black



Adapter Terminal Insulators

Adapter Terminal Insulators are designed to protect combination connections, where cables may be detached from the battery terminal.



419 Series



- Protect multiple cable terminals
- Insulator can slide back, to access cable connections
- Cable Entry: .53"/13.8mm

Part#	Cable Entry Size
TI419N9*	Open up to 1/0 ga

Cable Entry Size

.60"/15.2mm

Cable Entry Size

Part#

TI422N9

TI421N9



421 Series



- Protect offset battery terminals
- Use with negative terminal, usually left cable entry
- Insulator slides over terminal
- Cable entry: .60"/15.2mm



422 Series



- Protect offset battery terminals
- Use with positive terminal, usually right cable entry
- Insulator slides over terminal
- Cable Entry: .60"/15.2mm



456 Series



- Protect marine battery terminals
- Works with bolt-on / wing-nut type battery terminals
- Accepts single or multiple cables

Part#	Cable Entry Size
TI456N9*	Oval up to 4/0 ga



* V02= Red V14= Black

457 Series



- Protect marine battery terminals
- Works with bolt-on / wing-nut type battery terminals
- Single cable entry, in 3 sizes

Part#	Cable Entry Size
TI457N1*	.11"/2.8mm
TI457N2*	.32"/8.1mm
TI457N3*	.55"/14.0mm

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Adapter Terminal Insulators



451 Series



- Protect multiple cable terminals
- Insulator snaps onto cables and call be removed easily
- Cable entry: 53"/13.8mm

	Part#	Cable Entry Size
ì	TI451N9*	Open up to 1/0 ga



453 Series



- Protect offset battery terminal, usually left cable entry
- Insulator snaps onto cable
- Cable entry: .50"/12.7mm

Part#	Cable Entry Size
TI453L9 V14	Open up to 1/0 ga
TI453R9 V14	Open up to 1/0 ga
TI453D9 V14	Open up to 1/0 ga



454 Series



- Protect offset battery terminals
 Use with positive terminal usual
- Use with positive terminal, usually right cable entry
- Insulator slides on to cable
- Cable Entry: .50"/12.7mm

Part#	Cable Entry Size
TI454L9 V02	Open up to 1/0 ga
TI454R9 V02	Open up to 1/0 ga
TI454D9 V02	Open up to 1/0 ga



776 Series



- Protect heavy duty battery terminals
- Waterproof inulator/cover kit
- Prevents electrical current flow when submerged in salt water
- Includes 479 Series disc

•	Part#	Cable Entry Size
	TI776N7*	.42"/10.7mm
n	TI776N8*	.62"/15.8mm
	TI776N9*	.82"/20.8mm







- Corrosion prevention kit for 8DA & 4DA batteries
- Cable locations can be changed
- Includes all necessary components: bases, covers, terminals, sleeves, plugs, gel
- For use with 1/0 ga 4/0 ga cables

Part#	Cable Entry Size
70480*	Min: .5"/12.7mm
	Max: .87"/22.1mm

* V02= Red V14= Black



Specialty Terminal Insulators



550 Series



- Covers engine sensors
- · Generous height and downward wire exit
- · Retainer lip keeps cover in place
- Wall thickness: ~1mm
- Available in 2 cable entries

Part#	Cable Entry Size
TI550N6*	.25"/6.4mm
TI550N9*	.38"/9.5mm



560 Series



- Covers engine sensors
- · Generous height and downward
- Retainer lip keeps cover in place
- Wall thickness: ~2.8mm

Part#	Cable Entry Size
TI560N4*	.25"/6.4mm



621 Series



- Small straight sensor cover
- Molded in ring allows for greater strength
- Typically used with oil and water temperature sensors

Part#	Cable Entry Size
TI621N9*	.25"/6.4mm



725 Series



- · Accepts terminals up to 24mm
- Tunnel cap allows for various cable entry sizes and shapes
- Insulator can be zip-tied to cable
- Maximum terminal OD: .94"/24mm
- Maximum terminal height: .99"/25.3mm
- · Available in halogen-free material

Part#	Cable Entry Size
TI224T9*	Various Inserts
(M) (B) (B)	

Style B .3" / 7.6mm



729 Series



- Accepts terminals up to 24mm
- Tunnel cap allows for various cable entry sizes and shapes
- Insulator can be zip-tied to cable
- Maximum terminal OD: .1.1"/28mm
- Maximum terminal height: 1.2"/30.7mm
- Available in halogen-free material

Part#	Cable Entry Size
TI228T9	Various inserts







Style B .5" / 12.7mm



* V02= Red V14= Black

735 Series



- Accepts terminals up to 24mm
- Tunnel cap allows for various cable entry sizes and shapes
- Insulator can be zip-tied to cable
- Maximum terminal OD: .1.52"/34mm
- Maximum terminal height: 1.3"/38.6mm
- Available in halogen-free material

Cable Entry Size TI234T9* Various Inserts









.7" / 17.8mm

Style C Style B