Electro-Mechanical Devices

VTE Inc. is a company on the move.

Not being complacent to provide just terminal insulators, VTE has become pioneers in the field of improved electro-mechanical devices. These devices fill a void in our marketplace, by providing high quality, low cost solutions. These devices are designed and manufactured with effectiveness and compliance in mind, so our customers can rest assured that their products will meet applicable industry standards.

We started by developing a safe and effective way to pass electrical current through a barrier. These power bushings are rated up to 500 amps @ 12 vdc, and can easily secure multiple cables. They are available as weatherproof models, for use in water resistant enclosures.

We then started working with power distribution. We developed several power distribution posts, for single and multiple cables. We also developed a few devices for providing battery system access from outside a vehicle. These devices provide outside access to electrical systems, when getting to the battery system could be difficult or dangerous. More recently, we've developed a brass core jump start connector.

Next we focused on terminal busbar solutions. We brought out a 12 point busbar with cover, and then added a 10 point busbar, a dual 4 point terminal busbar, and more recently, a quick connect tab-type busbar and an updated large base 4 point busbar.

Even after this level of new market growth, we're still developing and adding new products. Our engineering and design staff are always developing new ways to create value for our customers. Although we've been able to present our current new product lines in this catalog, we urge you to visit our website, where you can find and research our newest, and our most up-to-date offerings.

Generally, our electro-mechanical products are rated for use up to 48 vdc. Other voltage ratings and current specifications are included with each item.

Blue-Dot Technology

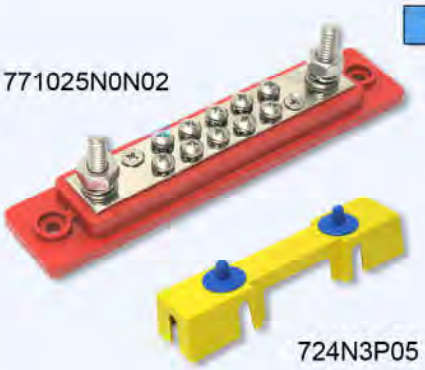
Where applicable, some of our products contain our Blue-Dot Technology. This technology indicates when a conductive fastener (nut) is utilized in place of a mechanical fastener. These conductive fasteners will carry current in a more efficient fashion, and must be kept in their factory installed location.

Failure to keep the conductive fastener in its factory installed location will result in degraded performance. Failure to keep the mechanical fastener in its factory installed location can result in premature device failure. Fasteners must be kept in the location installed by the factory.

Electrical Terminal Busbars

VTE's Terminal Busbars are used to distribute power to several locations. Each busbar has several connection points, some with different sizes. Our busbars can be used in a variety of applications.

10 Point Terminal Busbar



771025N0N02

724N3P05

- Multiple connection points, to accomodate various connections
- Secure way to consolidate ground systems
- Maximum Voltage: 48 VDC
- Maximum Amperage: 200 Amps @ 12 vdc
  20 amps per connection point @ 12 vdc
- (2) 1/4" (~6mm) stainless terminal posts
- (10) connection points, #8-32 stainless steel screws
- Stainless steel hex nuts and washers
- Base material: 16% glass-filled nylon (red & black)
- Overall length: 6.0" (152.4mm) Mounting center: 5.19" (131.8mm)
- Optional cover available, to help comply with industry standards

12 Point Terminal Busbar

7712N0N02

71225N02 Kit

Kit includes 12 Point Busbar, 218 Series insulator, and cover

- Multiple connection points, to accomodate various connections
- Secure way to consolidate ground systems
- Maximum Voltage: 48 VDC
- Maximum Amperage: 240 Amps @ 12 vdc
  20 amps per connection point @ 12 vdc
- (1) 1/4" (~6mm) stainless terminal posts
- (12) connection points, #8-32 stainless steel screws
- Stainless steel hex nuts and washers
- Base material: 16% glass-filled nylon (red & black)
- Overall length: 5.23" (132.9mm) Mounting center: 4.66" (118.4mm)
- Kit: 71225 includes 12 Point Busbar, Cover and 218N2 Insulator

Tab-Type Terminal Busbar

TTB730N02

TTB720 - 20 Point Busbar
TTB710 - 10 Point Busbar

- Highly cost effective solution for fast busbar connections
- Average of **255**% faster than installing spade type terminals
- Average of **340**% faster than installing ring type terminals
- Available with 10, 20 or 30 connection points
- Optional cover kit available, to help comply with industry standards
- Maximum voltage: 48vdc
- Maximum amperage: 120 amp @ 12 vdc
  Individual amperage: 20 amp @ 12 vdc
- Busbar can be mounted in any orientation
- Connection plate: Nickel-Plated Brass
- Post hardware: Stainless Steel
- Optional cover Kit: 7102030N1 - Yellow
  7102030N2 - Red
  7102030N3 - Black

See pages 4 & 5 for 216 Series Insulator sizes

7102030N2
Kit includes cover and (2) 216 Series Insulators

Electrical Terminal Busbars

VTE's Terminal Busbars are used to distribute power to several locations. Each busbar has several connection points of different size, and can be used in a variety of applications.

3 Point High Amperage Terminal Busbar

7753N7N02

375T5T02

- Fasten large high current cables to a high amperage source
- Well suited for distributing power to marine bow thrusters
- Maximum Voltage: 48 VDC
- Maximum Amperage: 700 amps total @ 12 vdc
- (1) 3/8" stainless steel center post
- (2) 5/16" stainless steel connection posts
- Stainless steel hex nuts and washers
- Base material: 16% glass-filled nylon (red & black)
- Connection Plate: Nickel-Plated Brass
- Optional 375T Terminal Insulator snaps onto cables to help comply with industry standards

Large Base 4 Point Terminal Busbar

74375N0N02

723N2

Optional cover kit includes insulating cover and 2 acorn fastening nuts

- Multiple connection points, to accomodate various connections
- Secure way to consolidate ground systems
- Maximum Voltage: 48 VDC
- Maximum Amp: 350 & 250 Amps @ 12 vdc
- Positive: 3/8" posts (red) Negative: 5/16" posts (black)
- Also available in Metric: 10mm and 8mm
- Nickel-plated brass plate, for increased current transfer
- Stainless steel connection posts, hex nuts and washers
- Base material: 16% glass-filled nylon (red & black)
- Overall length: 6.47" (164.36mm) Mounting center: 5.71" (145.06mm)

Part Number	Post	Amps	Color	Cover
74312N0N02	5/16"	250	Red	723N1
74312N0N14	5/16"	250	Black	723N5
74375N0N02	3/8"	350	Red	723N2
74375N0N14	3/8"	350	Black	723N6

Part Number	Post	Amps	Color	Cover
74008N0N02	8mm	250	Red	723N3
74008N0N14	8mm	250	Black	723N7
74010N0N02	10mm	350	Red	723N4
74010N0N14	10mm	350	Black	723N8

Dual 4 Point Terminal Busbar

738834N0N14

738N3P05

- Multiple connection points, to accomodate various connections
- Secure way to consolidate positive and negative systems
- Maximum Amperage: 350 (3/8") & 250 (5/16") Amps total @ 12 vdc
- Positive busbar: 3/8" posts / Negative busbar: 5/16"
- Overall length: 5.72" (145.3mm) Mounting center: 4.9" (124.5mm)
- (3) additional 20 amp connection screws per side
- Base material: 16% glass-filled nylon (red & black)
- Stainless steel nuts and washers
- Maximum Voltage: 48 VDC
- Optional cover: 738N3P05

Part Number	Side 1	Side 2	Color
738831N0N14	5/16"	5/16"	Black
738834N0N14	5/16"	3/8"	Black
738837N0N02	3/8"	3/8"	Red

8 Point Power Post & Insulation Kits

VTE's 8 Point Power Distribution Posts connect several wires / cables to a central location. These devices can be used to deliver power to a control panel, feed multiple low-current devices, or when grounding wires / cables.

Eight Point Power Distribution Post

77837N02

77831N14

- Create reliable, trouble-free circuit paths to control systems
- (8) #8-32 connection points carry up to 20 amps each @ 12 vdc
- Maximum voltage: 48 vdc
- Available post sizes: 1/4", 5/16", 3/8"
- Base Material: Glass-Filled Nylon
- Connection Post: Stainless Steel
- Conductive Disk: Nickel-Plated Copper Alloy
- Conductive Nuts: Tin-Plated Copper Alloy
- Mechanical Fastener Nuts: Stainless Steel
- Mounting Center: 2.5" / 63.5mm
- Kit packaging available with 1, 2, or multiple cable entry
- Terminal Insulation Kits help comply with ABYC, USCG and ISO safety standards

Blue-Dot Technology

Part #	Post Size	Total Amperage	Color
77825N02	1/4" (.25") / 6.4mm	160 amp	Red
77825N14	1/4" (.25") / 6.4mm	160 amp	Black
77831N02	5/16" (.31") / 7.9mm	160 amp	Red
77831N14	5/16" (.31") / 7.9mm	160 amp	Black
77837N02	3/8" (.37") / 9.5mm	160 amp	Red
77837N14	3/8" (.37") / 9.5mm	160 amp	Black

total amperage @ 12 vdc

For 8-Point insulation kits, please visit www.vteworld.com

Single Point Power Distribution Post

Power Distribution Posts are designed to securely fasten multiple cables to a single point. They can be used for positive or negative wires / cables, and come in 7 post sizes to fit your needs and budget. The mounting bases are available in three sizes.

- Maximum Voltage 48vdc
- All hardware: stainless steel
- Available in Red & Black
- Base Material: Glass-Filled Nylon

77037N02
3/8" Post

77137N02
3/8" Post

77512N0N02
1/2" Post

w/ 795V02

	Part #	Post Size	Amperage
Small Base	77010N	#10	30 amp*
	77025N	1/4"	150 amp*
	77031N	5/16"	190 amp*
	77037N	3/8"	240 amp*
Large Base	77125N	1/4"	150 amp*
	77131N	5/16"	190 amp*
	77137N	3/8"	240 amp*
Heavy Duty	77510M0N	10mm	240 amp*
	77512M0N	12mm	300 amp*
	77512N0N	1/2"	300 amp*

Color Modifier:
Red: 02
Black: 14

Example:
77010N02 (red)
77010N14 (black)

* Amperage ratings are for reference only. Current capacity is determined by the cables used, not the juntion post. Current ratings are related to expected cable capacities. Maximum amperage @ 12 vdc

Power Bushings

VTE has developed several connection devices, to pass current through barriers, or connect multiple cables to a single point.

New Red Bushing

CCB376N0NR02
(Red)

CCB376N0N14
(Black)

Copper Core Power Bushing

Our Copper Core Power Bushing has been developed to be a simple and low cost way to pass current through a barrier. The copper 'core' passes current through the core, instead of through the steel post. The steel post is used to fasten the assembly, providing high torque capabilities.

- Low cost, fast install power bushing
- Capacity: Duty Cycle: 80%
  - Nom: 5.2kw (440amp @ 12vdc)
  - Peak: 6.6kw (550amp @ 12vdc)
- Can be fitted to panels up to 3/8" (9.5mm)
- Bushing Material: Glass-Filled Nylon
- Post Material: Ni Plated Steel
- Bushing can be fitted with 258 Series terminal insulator
- When used with terminal insulators, complies with industry standards
- Maximum Voltage: 48 vdc

Original Red on Black still available as CCB376N0N02 and CCB376M0N02

PART NUMBER	POST	AMPERAGE NOM	AMPERAGE PEAK	COLOR
CCB376N0NR02	3/8"	440	550	Red
CCB376N0N14	3/8"	440	550	Black
CCB376M0NR02	M10	360	450	Red
CCB376M0N14	M10	360	450	Black

Add 'W' to model number to indicate weatherproof model. Weatherproof model includes 358 Series sealing ring and 258 Series Terminal Insulator.

Also available in weatherproof model

Power Bushings

Weather-Proof Model

7B5050N02W

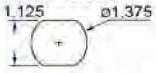
7B3730N14

- Available in 500 amp (1/2") or 300 amp (3/8")
- Panel thickness up to 3/8" (9.5mm)
- Custom panel thickness available
- Less than 10 degree rotation
- High anti-rotation torque
- Maximum Voltage : 48 vdc
- Amperage Maximums are @ 12 vdc
- Base Material: Glass-Filled Nylon (red & black)
- Post Material: Brass
- Weatherproof models include 232 Series terminal insulator
- Weatherproof models meet various industry standards

Blue-Dot Technology

* Not recommended for transportation or automotive use

Double D Panel Cutout



Copper Core and Power Bushings are compatible with common "Double D" punches to increase anti-rotation characteristics.

1/2" Post				3/8" Post			
Part Number	Panel	Amps	Color	Part Number	Panel	Amps	Color
7B5050N02	0 - 1/8"	500	Red	7B3730N02	0 - 1/8"	300	Red
7B5050N14	0 - 1/8"	500	Black	7B3730N14	0 - 1/8"	300	Black
7B5051N02	1/8 - 1/4"	500	Red	7B3731N02	1/8 - 1/4"	300	Red
7B5051N14	1/8 - 1/4"	500	Black	7B3731N14	1/8 - 1/4"	300	Black
7B5052N02	1/4 - 3/8"	500	Red	7B3732N02	1/4 - 3/8"	300	Red
7B5052N14	1/4 - 3/8"	500	Black	7B3732N14	1/4 - 3/8"	300	Black

Add 'W' to model number to indicate weatherproof model
Weatherproof model includes grooved bushing and 232 Series Terminal Insulator

Power Bushings, cont.

VTE has developed several connection devices, to pass current through barriers, or connect multiple cables to a single poinit.

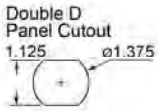
Copper Core Jumper Bushing

New Red Bushing

CCJB376N0NR02 (Red)
CCJB376N0N14 (Black)

- Pass electrical current through a panel or barrier
- Can accomodate barrier thickness from 1/16" up to 3/8" (1.5mm - 9.5mm)
- Nickel plated steel connection post, with copper conductivity core
- High strength glass-filled nylon bushing, high anti-rotation
- Nickel plated steel connection post
- Available as single, pairs, and with mounting panel
- Maximum Voltage: 48 vdc
- Maximum Amperage: 350 amp @ 12 vdc
- Included post insulator protects connection point from accidental shorts, helping comply with safety standards

Original Red on Black still available as CCJB376N0N02 and CCJB376M0N02



All Jumper Bushings are compatible with common "Double D" punches to increase anti-rotation characteristics.

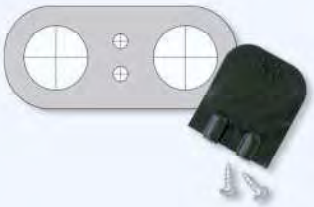
Part Number	Post	Color
CCJB376N0NR02	3/8"	Red
CCJB376N0N14	3/8"	Black

Part Number	Post	Color
CCJB376M0NR02	M10	Red
CCJB376M0N14	M10	Black

Our flush mount kit is used when installing a pair of bushings to sheet metal. The included adhesive decal serves as a drilling template.

- 1 Red Copper Core Jumper Bushing
- 1 Black Copper Core Jumper Bushing
- 1 Adhesive decal for drilling guide
- 1 Plastic divider

Part Number: CCJB376FMK
Metric: CCJB376FMKM



Our bracket mount kit includes an adapter bracket for fastening a pair of bushings. The laser cut bracket utilizes "Double D" slots for high anti-rotation.

- 1 Red Copper Core Bushing
- 1 Black Copper Core Bushing
- 1 Plastic divider
- 1 Mounting bracket, powder coated & pre-drilled

Part Number: CCJB376BMK Metric: CCJB376BMKM

Auxiliary Power Connector

7A373014
(black)

7A373002
(red)

- Low cost solution to attaching charger cable clamps
- For panel thickness up to 3/8" (9.5mm)
- Maximum Amperage: 50 Amps @ 12 vdc
- Maximum Voltage: 48VDC
- Provides connection at accessible side of installation, when battery is not readily accessible, or dangerous to reach
- Each connector has a terminal insulator, to protect against accidental shorts
- Use optional terminal insulator (224 Series) to protect internal connections
- Connection post size: 3/8" (~10mm)
- Base Material: Glass-Filled Nylon

Power Bushings, cont.

VTE has developed several connection devices, to pass current through barriers, or connect multiple cables to a single point.

77237N02

Blue-Dot

Technology

Pass Thru Power Post

Pass Thru Power Posts were developed as a low cost alternative to our power bushings, where the higher amperage rating of our power bushings is not needed. Tin plating and stainless steel resists salt water corrosion.

- Allows for multiple connections on either side of barrier
- Corrosion resistant hardware
- Lower cost than power bushing
- Can be installed with regular drill bits
- Maximum voltage: 48 vdc
- Maximum amperage: 250 amps @ 12 vdc
- Base material: glass-filled nylon
- Available in Red & Black
- Can be covered with terminal insulators, complying with ABYC, USCG and ISO standards

77237N02 with
226 Series Insulator

Part Number	Post	Amps	Color
77231N02	5/16"	250	Red
77231N14	5/16"	250	Black
77237N02	3/8"	250	Red
77237N14	3/8"	250	Black

Post:	Ni-Plated Brass
Inner Nuts: (conductive)	Tin-Plated Brass
Outer Nuts: (fastening)	Stainless Steel
Spring Washers:	Stainless Steel
Flat Washer:	Stainless Steel

Battery Terminals

Commonly used battery terminals for marine and commercial use.

3516
Positive

3517
Negative

3516, 3517 Adapter Battery Terminals

- Commonly used in marine industry, to easily remove cables
- Converts "tapered" SAE post to wing-nut and stud terminal
- Accepts 8 ga thru 4/0 ga (~6mm thru ~120mm)
- Positive Post: 3/8" (~M10)
- Negative Post: 5/16" (~M8)
- Polarity Specific
- Post Height: .63" / 16mm

456 Series

457 Series

3534
Positive

3535 Negative

3534, 3535 Heavy Duty Battery Terminals

- Low profile design measures only 3/4" high
- Long bolt permits additional power connections
- Zinc-plated steel hardware included
- Lead construction
- Polarity Specific

Part Number	Polarity	Terminal Post	Tighten Post
3534	Pos (+)	3/8"	5/16"
3535	Neg (-)	3/8"	5/16"

466 Series

468 Series

Fuses & Fuse Holders

Various solutions for over-current protection

VTE is pushing forward once again. When developing our electro-mechanical and connection device line, we recognized a weakness in our market: safe & effective over-current protection, at a cost-effective pricepoint. Utilizing our accomplished design team, VTE set out to develop a fuse holder line that would better protect your investment, and also be attractive to manufacturing budgets.

This work and development paid off. We first developed a MEGA brand fuse holder. This fuse holder works with the MEGA brand of fuses up to 250 amp. To protect your terminals, we also include a pair of our 405 Series terminal insulators, to help your devices comply with industry standards.

Next, we turned our sights to the ANL fuse line. We developed ways to secure and protect your critical components, but still introduce a significant cost savings. Our design team brought out a low-cost medium duty ANL Fuse Holder. We followed up by developing a high-current version, capable of securing up to 750 amp fuses. We offer both medium duty and heavy duty ANL Fuse Holders with terminal insulation, to comply with industry safety standards.

Recently, we've developed a T-Class fuse holder to protect critical electrical components. Our T-Class Fuse Holder was developed with heat dissapation properties incorporated into its design. This ensures safe operation even in high current environments. Our T-Class Fuse Holder kit comes with a protective cover, to ensure compliance with safety regulations.

To augment our higher current protection, VTE also offers a line of smaller fuses and fuse holders, and a line of resettable circuit breakers. These lines offer current protection from 2 up to 100 amps, depending on the series. Our smaller fuse holders offer protective caps, and generous leads for connecting to your systems.

Plug-In Fuses & Holders, Circuit Breakers

VTE offers plug-in fuses of varying sizes and ratings. We also offer fuse holders, and resettable circuit breakers. These fuse products are available through the USA VTE Warehouse, and our worldwide distributors.

Mini Fuses & Holder

- Highly cost effective solution for mini fuse applications
- Fuse Amperage: 2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30, 35
- Fuse holder includes weatherproof protective cover
- Fuse holder available with 16, 14 or 12 ga cables
- Fuse holder overall length: 12" (304.8mm)
- Maximum Voltage: 32 vdc

MNH933514R

Auto (ATO) Fuses & Holder

- Highly cost effective solution for Auto fuse applications
- Fuse Amperage: 2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30, 35
- Fuse holder includes weatherproof protective cover
- Fuse holder available with 14 or 12 ga cables
- Fuse holder overall length: 12" (304.8mm)
- Maximum Voltage: 32 vdc

AFH933812R

Maxi Fuses & Holder

- Highly cost effective solution for Maxi fuse applications
- Fuse Amperage: 20, 30, 35, 40, 50, 60, 70, 80, 100
- Fuse holder includes weatherproof protective cover
- Fuse holder overall length: 17.25" (438.2mm)
- Fuse holder available with 10 or 8 ga cables
- Maximum Voltage: 32 vdc

MXH933608R

Resettable Circuit Breakers

- Highly cost effective solution for reset fuse applications
- Can be used with 464 Series terminal insulator to meet USCG, ABYC and ISO safety standards
- Amperage Available: 20, 30, 40, 50
- Mounting Center: 1.54" (39.1mm)
- Maximum Voltage: 32 vdc

464 Series

Medium and High Amperage Fuses & Holders

VTE has developed our own line of Fuse Holders. These allow you to protect medium and high amperage devices, such as winches, pumps, motors, and other heavy draw devices.

ANL Fuse & Holder

ANB740N9N02

ANF340200

ANFC340300

- Fuse Amperage Available: 50, 80, 100, 150, 200, 250, 300
- Ceramic Fuse Amperage: 300, 350, 400, 500
- ANL Fuse Holder Kit includes (2) 487 Series terminal insulators, fastener hardware, and protective cover
- 5/16" (~8mm) stud, up to 2/0 ga terminal
- Maximum Voltage: 48 VDC
- Base Material: Glass-Filled Nylon
- Post Material: Stainless Steel
- Lock Washer: Stainless Steel
- Flat Washer: Brass
- Available in Red & Black

Kit includes fuse cover and (2) 487 Series insulators

Part Number	Color	Cable Diam.
ANB740N7N02	Red	.5"/12.7mm
ANB740N7N14	Black	.5"/12.7mm
ANB740N8N02	Red	.6"/15.2mm
ANB740N8N14	Black	.6"/15.2mm
ANB740N9N02	Red	.65"/16.5mm
ANB740N9N14	Black	.65"/16.5mm
ANB740N0N02	Red	.75"/19.1mm
ANB740N0N14	Black	.75"/19.1mm

ANL Hi-Amp Fuse Holder

ANB753N7N02

- Accepts up to 750 Amp fuse
- Maximum Voltage: 32 VDC
- Post Size Available: 5/16", 3/8"
- Post Material: Stainless Steel
- Flat Washer: Stainless Steel
- Base Material: Glass-Filled Nylon
- Available in Red & Black
- High amperage fuses sold separately
- Included cover helps comply with safety regulations

Part Number	Post	Color
ANB753N7N02	5/16"	Red
ANB753N7N14	5/16"	Black
ANB753N8N02	3/8"	Red
ANB753N8N14	3/8"	Black

Shown with included cover 351N9V00

Mega Fuses & Holder

MFB736N9N02

MFC336080

- Cost effective solution to Mega Fuse protection
- Fuse Amperage Available: 60, 80, 100, 125, 150, 175, 200, 225, 250
- Maximum Voltage: 32 VDC
- Holder Post: 5/16" Stainless Steel
- Flat Washers: Brass
- Connection Fastener Nut: Stainless Steel
- When used with included 405 Series terminal insulators, meets safety regulations
- Base Material: Glass-Filled Nylon

Kit includes (2) 405 Series insulators

Part Number	Post	Color
MFB736N9N02	5/16"	Red
MFB736N9N14	5/16"	Black

T-Class Fuses & Holder

TFB735N0N02

- Commonly used for equipment protection
- Maximum Voltage: 48 VDC
- 3/8" Stud accepts up to 4/0 ga cable
- Connection Stud: Stainless Steel
- Connection Fastener Nut: Stainless Steel
- Washers: Stainless Steel
- Base Material: Glass-Filled Nylon
- Optional Cover: 351N8V00
- Fuses sold seperately

351N8V00

Part Number	Post	Color
TFB735N0N02	Red	No
TFB735N0N14	Black	No
TFB735N8N02	Red	Yes
TFB735N8N14	Black	Yes