

100 to 1,000 amp DC Connectors used in:

Batteries & Energy Storage

Work Trucks, APUs, Electrification

Motive Power





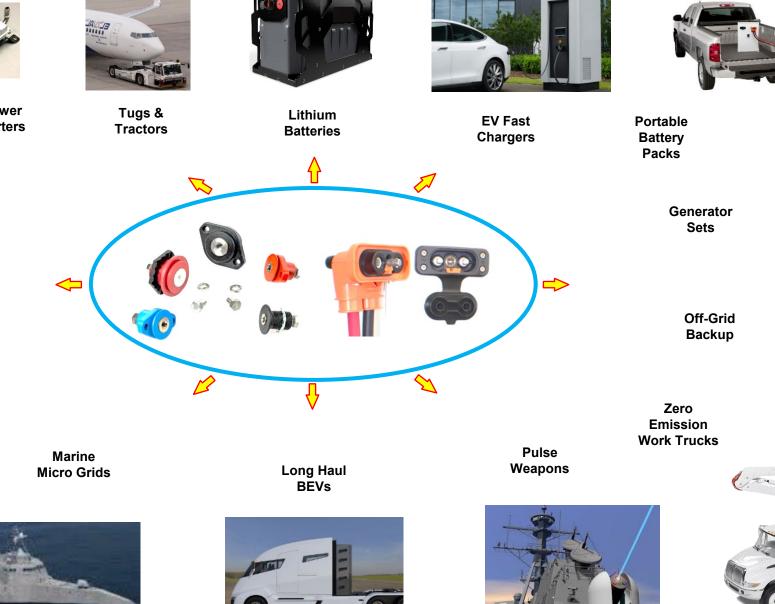


Rebling is a connector manufacturer located near Philadelphia which has specialized in high current (100 to 1,000 amps) connectors for the past 50 years. Fortunately for us, there has been significant growth in the markets we serve (battery manufacturers, motive power, energy storage systems, auxiliary power, power conditioning).

As applications trend toward higher voltages and currents as well as faster charging times, improved features are needed to enable the OEMs in those sectors to maintain their competitive edge and reduce their end users' total cost of ownership. We will continue to innovate and bring those vital features to market at economical prices.

Wherever you find a Lithium Battery Module larger than a loaf of bread, you will find Rebling













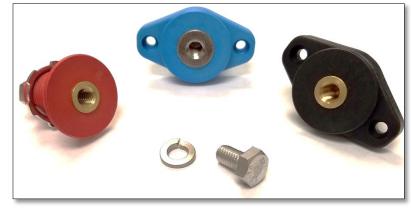
Product Families

Double Pole Quick-Disconnect Connectors



pages 16 \rightarrow 22

Single Pole Feed Through Terminals



pages 4 \rightarrow 15

Battery Swap Connectors



pages 21 → 22

Double Pole Renewable Energy Inverter Connectors



Datasheets and 3D Step Files

for all products can be Downloaded from Rebling.com

Feed Through Terminal, Single Pole, Wrench-Disconnect

TFT, LFT, SFT, Top Seal, MFT, BFT and XFT Styles



Our terminals are designed for the temperature sensitive environment of lithium battery modules and are compatible with any battery chemistry as well as air-cooled or liquid-cooled systems. Available in nickel plated for harsh environments, they prevent the ingress or egress of fluids and stay cool even at extreme charge and discharge rates. Equipping your design with these watertight terminals will enable designers and integrators to easily incorporate your products into Battery Pack, Motive Power, Energy Storage, Auxiliary Power or Power Conditioning applications.

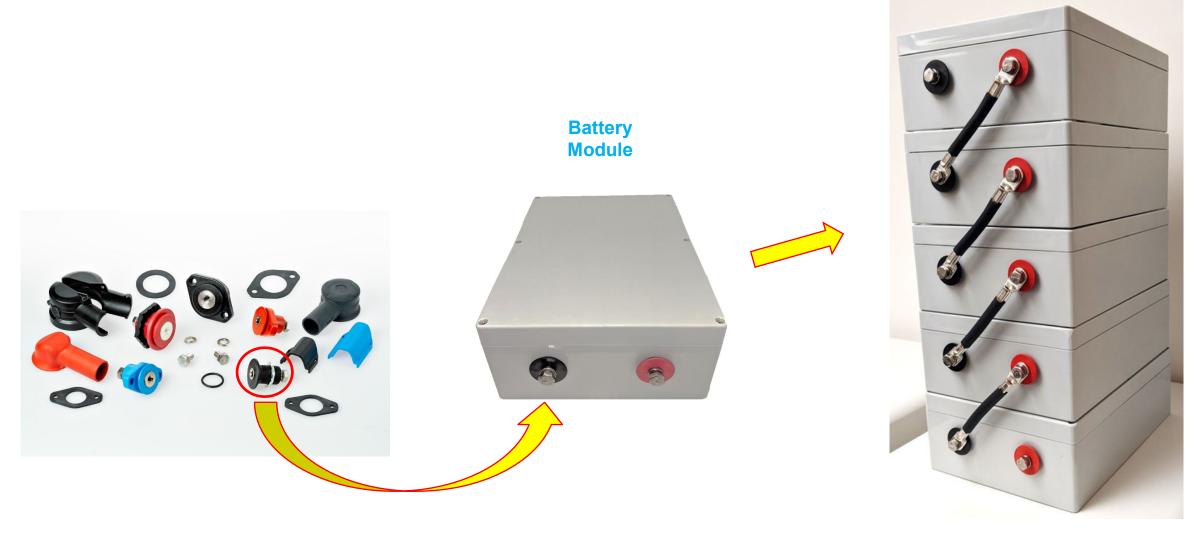
The **Selection Guides** on pages 8 - 10 identify the optimal part based upon your application's rated current, panel material, panel thickness, desired mounting pattern, environmental sealing and cover requirements.

Rigid and flexible covers snap onto the terminals with an audible click.

Ordering Information for terminals and accessories can be found on pages 11 - 15



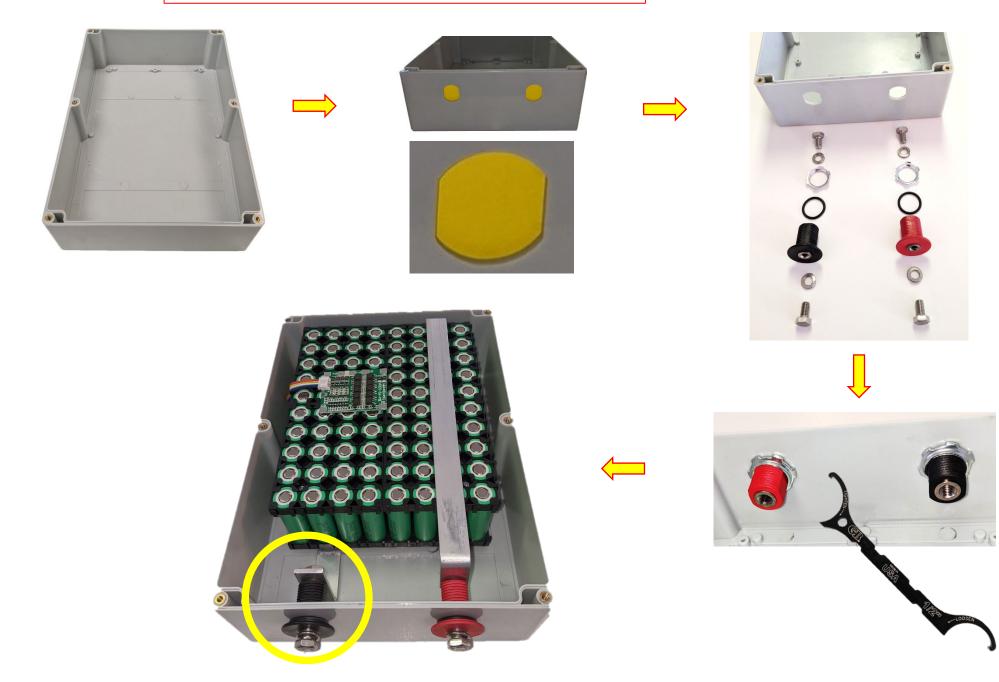
Feed-through Terminals in an Energy Storage System



Multiple Module Stack



Feed-through Terminals in a Battery Module



Feed-through Terminals in a Multiple-module Battery Pack



















Cable & Terminal Selection Guide

Cable and Terminal Selection Guidelines								cour	tesy of Reb	ling.	com	Dec	emb	er 14, 2023
	Industry Standard				Tool Required for	Cross Sectional Area of	# amps for 30° C	Metal	# amps for 45° C		# amps for 60° C	Plastic		# amps for 90° C
Product	or				Mating &	Conductor	Rise	Σ	Rise		Rise	Ē		Rise
Category	Test Results			Product	Un-mating	mm ²	55° total	vit -	70° total		85° total	Ē		115° total
Connector	Test Results	Rebling	BFT or XFT	1,000 amp rating with one 380 mm ² cable per terminal	Wrench	390	1,010	ct ~	1,250		1,430	× t		1,690
Connector	Test Results	Rebling	BFT or XFT	750 amp rating with one 380 mm ² cable per terminal	Wrench	390	900	Contact	1,100		1,250	Contact with		1,440
Connector	Test Results	Rebling	MFT or Top Seal	500 amp rating with one 230 mm ² cable per terminal	Wrench	240	520	8	630		730	1 ð		840
Connector	Test Results	Rebling	LFT, SFT, Top Seal	250 amp rating with one 105 mm ² cable per terminal	Wrench	130	280	an	340	8	390	E	ā	450
Connector	Test Results	Anderson	SB350	with one 105 mm ² cable per terminal	None	130	280	Hum	340	Coffee	390	Ĕ	Nat	450
Connector	Test Results	Rebling	7010+7020	with one 105 mm ² cable per terminal	None	75	270		330	p	380	Maximum Recommended Temperature for Human	of Boiling Water	430
Connector	Test Results	Rebling	TFT	100 amp rating with one 32 mm ² cable per terminal	Wrench	40	115	e for	150	Brewed (170	ē	1	190
Cable	Test Results	750 MCM	Cable	7,600 strands of 30 gauge wire		380	1,020	tu.	1,270	B	1,470	- Pi	#	
Cable	Test Results	450 MCM	Cable	4,500 strands of 30 gauge wire		230	550	era	660	đ	770	atat	o e	
Cable	Test Results	250 MCM	Cable	2,500 strands of 30 gauge wire		130	360	đ	450	ne	520	d d	ā	
Cable	Test Results	4/0	Cable	2,060 strands of 30 gauge wire		105	290	Ч	350	Temperature	400	Te	= Temperature	
Cable	Test Results	3/0	Cable	1,590 strands of 30 gauge wire		80	260	8	310	<u>م</u>	350	8	Ĕ	
Cable	Test Results	2/0	Cable	1,280 strands of 30 gauge wire		65	240	mended	290	Le l	335	2	₽	
Cable	Test Results	1/0	Cable	1,000 strands of 30 gauge wire		50	230	Ĕ	270	1	315	۳, E	0	
Cable	Test Results	2 AWG	Cable	625 strands of 30 gauge wire		32	120	Recom	160	77° C	180	E E	100° C	
Cable	Test Results	4 AWG	Cable	375 strands of 30 gauge wire		19	90	ĕ	105	1	120	8	우	
Cable	Test Results	6 AWG	Cable	260 strands of 30 gauge wire		13	80	num I	100		110	ι Έ		
Cable	Test Results	8 AWG	Cable	160 strands of 30 gauge wire		8.1	75		90		105	Ę.		
Cable	Test Results	10 AWG	Cable	105 strands of 30 gauge wire		5.3	50	Maxir	60		70	ă,		
Cable	Test Results	12 AWG	Cable	65 strands of 30 gauge wire		3.3	35	_ ≥	40		50 30	ž,		
Cable	Test Results	14 AWG	Cable	40 strands of 30 gauge wire		2.0	20	ö	25			5		
Cable Cable		4/0 2/0	Cable	2,060 strands of 30 gauge wire 1,280 strands of 30 gauge wire		105 65	195 145	60°	230 175		260 195	s.		
Cable		1/0	Cable	1,000 strands of 30 gauge wire		50	145	w.	1/5		195	00		
Cable		2 AWG	Cable	625 strands of 30 gauge wire		32	95		115		130			
Cable		6 AWG	Cable	260 strands of 30 gauge wire		13	55		65		75			
				tional areas of the terminal and the cable attached to	the terminal			ttack		cab		torr	nina	Lie liko

Cable and Connector Selection Guidelines: The cross sectional areas of the terminal and the cable attached to the terminal should be the same. Attaching a small cable to a large terminal is like attaching a 1 inch pipe to a 4 inch fitting, the size of the cable will limit the system's electrical and thermal performance, not the terminal. To select the optimal connector, follow the steps below:

Step 1: determine the temperature rise your equipment design can tolerate. The higher the temperature rise your equipment can tolerate, the lower the cost of cable and connectors.

Step 2: determine if your equipment needs to comply with UL, NEC, IEC or other standards

Step 3: determine the steady state current which your equipment must handle. If there are frequent or extended peaks of higher currents, use these peaks to estimate an average steady state current.

Step 4: select the smallest cable which can carry your steady state current which does not exceed the temperature rise you can tolerate and which conforms to the standard with which you wish to comply.

Step 5: determine if your equipment needs a separable electrical connection. Separable connections are more expensive and less reliable than permanent (soldered or welded) connections.

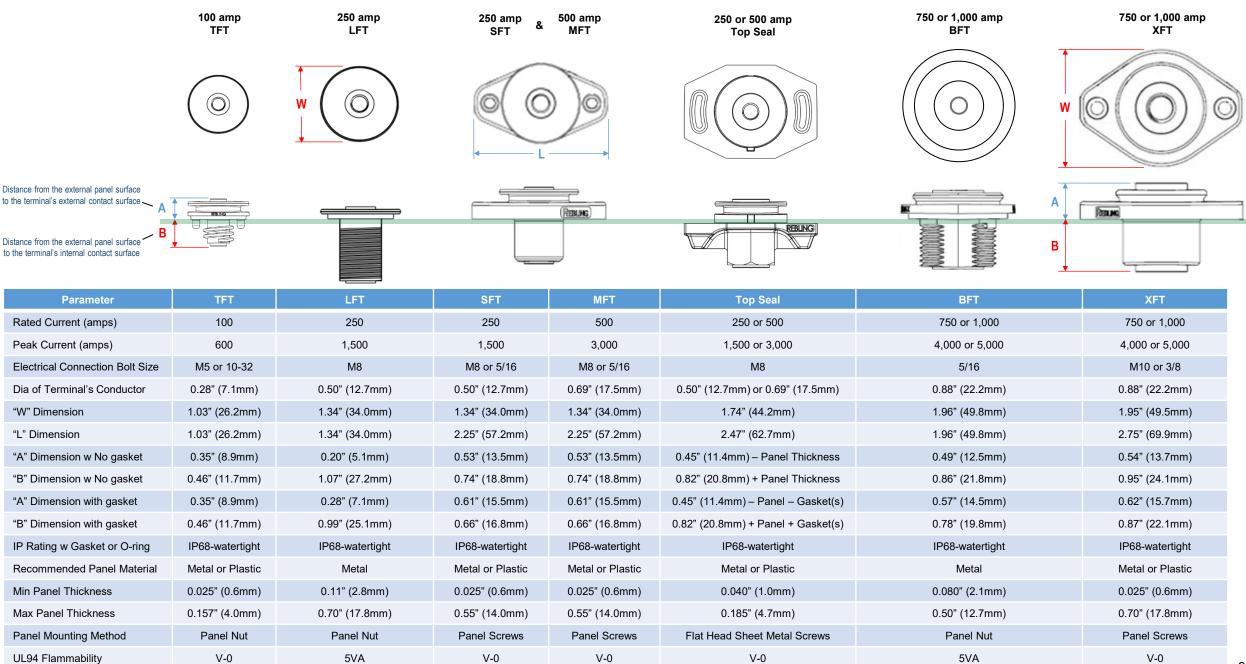
Step 6: determine if it is acceptable to use a tool to un-mate your electrical connection. Tool-less connectors are more expensive and less reliable than connectors which require tools but might be justifiable if: frequent un-matings occur, the installer is unskilled, a 20 second reduction in maintenance time is critical or lowered assembly labor costs offset the increased cost of the tool-less connector.

Step 7: select the lowest cost connector which: does not exceed the temperature rise your equipment can tolerate at your steady state current and meets your un-mating tool requirements.

Temperature Rise Values: the NEC (National Electrical Code) values are NEC's recommendations for typical thermoplastic insulated cables enclosed in a conduit which are close to other cables. UL has adopted NEC's 45° C rise values as their recommendations for current levels per cable size in UL 98. The values labeled "Test Results" were obtained from current vs temperature rise testing of individual cables and connectors suspended in air inside an 18" x 18" x 18" test chamber. Lithium battery system designers usually select components which keep the temperature rise to a maximum of 30° C due the sensitivity of lithium cells. It is wise to compare connectors based upon temperature rise test results since the rated currents and total allowable temperatures defined by standards like UL1977 and IEC 61984 can vary by a factor of 2.5. The current vs temperature rise characteristics of your application may be significantly different than the assumptions used in NEC, UL or IEC standards.

Touch Safe Temperatures: IEC/UL 60950-1 defines the maximum allowable temperature for 3 seconds of contact between a metal component and the human body as 60° C; for plastic it's 85° C. Cross Sectional Area of Conductor: the cross sectional areas of the stranded cables shown above were calculated using the diameter of one 30 gauge wire = 0.01000 inches

Dimensions & Specifications



Terminal

Terminal	Your Application's Parameters				Rebling Terminal Selection Guide					Accessories							
Selection Guide	Rated Current	Your Panel	Your Panel Thickness	Desired Panel Mounting	Connector Plating	Style	Insulator Color	P/N for bagged Kit	Advantages over other Styles	O-ring	Gasket	Flexible Cover	Long Rigid Cover	Short Rigid Cover			
Guide	100 amps	Plastic or Metal	$0.025 \rightarrow 0.157"$ $0,64 \rightarrow 4,0 \text{ mm}$	3 circular holes	Ni-plated Brass	TFT	Black Red Blue	TFT-P-B TFT-P-R TFT-P-E	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	812A1925	-	815A1927-B (BLK) 815A1927-R (RED) 815A1927-E (BLU)	814A1926-B (BLK) 814A1926-R (RED) 814A1926-E (BLU)	-			
			0.025 → 0.220" 0,64 → 5,59 mm	3 circular holes	Ni-plated Brass	SFT	Black Red Blue	SFT-P-B SFT-P-R SFT-P-E	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	716A1814						
		Plastic	0.230 → 0.660 "	1 double-D hole	Ni-plated Brass	LFT	Black Red Blue	LFT-P-B LFT-P-R LFT-P-E	Smallest Footprint, Lowest Cost Simplest Environmental Seal	700A1799	-	-					
	250		5,84 → 16,76 mm	3 circular holes	Ni-plated Brass	SFT	Black Red Blue	SFT-P-B SFT-P-R SFT-P-E	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	716A1814						
	amps		0.025 → 0.100" 0,64 → 2,54 mm	3 circular holes	Ni-plated Brass	SFT	Black Red Blue	SFT-P-B SFT-P-R SFT-P-E	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	716A1814	713A1806-B (BLK) 713A1806-R (RED) 713A1806-E (BLU)		698A1789-S-B (BLK) 698A1789-S-R (RED) 698A1789-S-E (BLU)			
			0.110 → 0.660" 2,80 → 16,76 mm	1 double-D hole	Ni-plated Brass	LFT	Black Red Blue	LFT-P-B LFT-P-R LFT-P-E	Smallest Footprint, Lowest Cost Simplest Environmental Seal	700A1799	-						
				3 circular holes	Ni-plated Brass	SFT	Black Red Blue	SFT-P-B SFT-P-R SFT-P-E	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	716A1814						
	500 amps	Plastic or Metal	$0.025 \rightarrow 0.660"$ $0,64 \rightarrow 16,76 \text{ mm}$	3 circular holes	Ni-plated Brass	MFT	Black Red Blue	MFT-P-B MFT-P-R MFT-P-E	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	716A1815						
		750 amps Metal	0.025 → 0.180"	3 circular holes	Ni-plated Brass	XFT	Black Red	XFT-P-B XFT-P-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill		720A1817		-				
			astic $0.190 \rightarrow 0.550"$ 4,83 \rightarrow 13,97 mm	1 double-D hole Ni-plated Brass	Ni-plated Brass	BFT	Black Red	BFT-P-B BFT-P-R	Smallest Footprint, Lowest Cost Simplest Environmental Seal	651A1811	651A1811		648A1758 (BLK) 648A1779 (RED)				
	750			3 circular holes	Ni-plated Brass	XFT	Black Red	XFT-P-B XFT-P-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	720A1817		-				
	amps			0.025 → 0.070"	3 circular holes	Ni-plated Brass	XFT	Black Red	XFT-P-B XFT-P-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill		720A1817					
			0.080	0.080 → 0.550"	1 double-D hole	Ni-plated Brass	BFT	Black Red	BFT-P-B BFT-P-R	Smallest Footprint, Lowest Cost Simplest Environmental Seal		651A1811		648A1758 (BLK) 648A1779 (RED)			
				2,04 → 13,97 mm	3 circular holes	Ni-plated Brass	XFT	Black Red	XFT-P-B XFT-P-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill		720A1817	639A1830-B (BLK)	698A1789-L-R (RED) 698A1789-L-E (BLU) - 648A1758 (BLK) 648A1779 (RED) - 648A1758 (BLK)			
10			0.025 → 0.180"	3 circular holes	Ni-plated Copper	XFT	Black Red	XFT-N-B XFT-N-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill		720A1817 639A1	639A1830-R (RED)	-	-			
		Plastic	astic 0.190 → 0.550" 4,83 → 13,97 mm	1 double-D hole	Ni-plated Copper	BFT	Black Red	BFT-N-B BFT-N-R	Smallest Footprint, Lowest Cost Simplest Environmental Seal	651A1811 720A1817	651A1811	-		†			
	1000			3 circular holes	Ni-plated Copper	XFT	Black Red	XFT-N-B XFT-N-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill		720A1817						
	amps		0.025 -			0.025 → 0.070"	3 circular holes	Ni-plated Copper	XFT	Black Red	XFT-N-B XFT-N-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill	-	720A1817		-	
				0.080 → 0.550"	1 double-D hole	Ni-plated Copper	BFT	Black Red	BFT-N-B BFT-N-R	Smallest Footprint, Lowest Cost Simplest Environmental Seal		651A1811		648A1758 (BLK) 648A1779 (RED)			
			2,04 → 13,97 mm	3 circular holes	Ni-plated Copper	XFT	Black Red	XFT-N-B XFT-N-R	Can be mounted on very thin or weak panels Mounting holes can be made with a hand drill		720A1817		-				



Feed-through Terminals

Covers and Gaskets can be found on the Accessories Page

		P/N	Description	Pricing					
	<u> </u>	TFT-P-B TFT-P-R TFT-P-E	100 amp Lithium Battery Terminal, Brass, Nickel plated w M5 bolts (Black, Red, Blue)						
		LFT-P-B LFT-P-R LFT-P-E	250 amp Lithium Battery Terminal, Brass, Nickel plated w M8 bolts (Black, Red, Blue)	Pricing and Delivery please contact these					
		SFT-P-B SFT-P-R SFT-P-E	250 amp Lithium Battery Terminal, Brass, Nickel plated w M8 bolts (Black, Red, Blue)	Authorized Distributors North and South America					
		Top250-P-R Top250-P-B	250 amp Lithium Battery Terminal, Brass, Nickel plated w M8 bolts (Black, Red)	Flame Enterprises FlameCorp.com					
° C				• • • • • • • • • • • • • • • • • • •			MFT-P-B MFT-P-R MFT-P-E	500 amp Lithium Battery Terminal, Brass, Nickel plated w M8 bolts (Black, Red, Blue)	Vandapower-USA Vandapower.com/us Europe, Middle East, Africa
	0	Top500-P-R Top500-P-B	500 amp Lithium Battery Terminal, Brass, Nickel plated w M8 bolts (Black, Red)	Vandapower-Belgium Vandapower.com					
		XFT-P-B XFT-P-R	750 amp Lithium Battery Terminal, Brass, Nickel plated w M10 bolts (Black or Red)	Australia & Asia Vandapower-Belgium Vandapower.com					
		XFT-N-B XFT-N-R	1000 amp Lithium Battery Terminal, Copper, Nickel plated w M10 bolts (Black or Red)	Flame Enterprises FlameCorp.com					
	0	BFT-P-B BFT-P-R	750 amp Lithium Battery Terminal, Brass, Nickel plated w 5/16 bolts (Black or Red)	· ·					
300		BFT-N-B BFT-N-R	1,000 amp Lithium Battery Terminal, Copper, Nickel plated w 5/16 bolts (Black or Red)						
Contraction of the second seco									





Top Seal Terminal

The **Top Seal Terminal** saves the OEM \$15 of material and labor on each battery produced and reduces each battery's volume by 200 cc. The Top Seal eliminates 20 inches (500 mm) of cable + 4 crimp lugs + production labor from each battery. The Top Seal is intended for OEMs which are graduating from producing hundreds of batteries per year to tens or hundreds of thousands per year.

The 250 and 500 amp **Top Seal Terminals** use the same nickel-plated brass conductor, accept the same rigid and flexible covers and have the same performance characteristics as Rebling's 250 amp SFT and 500 amp MFT feed-through terminals. They are intended for lithium battery OEMs which are packaging their cell packs inside molded plastic or aluminum cases that are 1 to 20 times the size of an automotive starter battery.

The Top Seal Terminal enables the OEM to attach the terminal to the lithium cell pack first, place the cell pack into the battery case, place the lid onto the battery case (allowing the terminals to poke through clearance holes in the lid), attach the lid to the terminals with flat-head sheet metal screws then screw, glue or weld the battery lid to the battery case.

Includes an "Arc of Forgiveness" feature, allowing the terminal to be mis-rotated by 30 degrees (+ or -15°) and still align the terminal's pilot hole slot with the flat-head screw mounting holes in the battery lid. OEMs wishing to take advantage of the Arc of Forgiveness need to cut their battery lid's mounting hole pattern to allow the "Orientation Key" to rotate though an arc.

Includes an "Orientation Key" that stands proud of the centering collar, allowing high precision OEMs to better align the terminal.

Includes a hex section to facilitate tightening the terminal to the cell pack's bus bar/ bus plate.

The optional 0.060" (1.5mm) thick gasket is placed on top of the terminal's flange to seal between the battery lid and the terminal. Up to 3 gaskets can be stacked to achieve the terminal-to-lid dimension desired by the OEM.

P/N	Description	Pricing
Top250-P-B	250 amp Top Seal Terminal Kit, Brass, Nickel plated w M8 Bolts, Black	Pricing and Delivery
Top250-P-R	250 amp Top Seal Terminal Kit, Brass, Nickel plated w M8 Bolts, Red	please contact these Authorized Distributors
Тор500-Р-В	500 amp Top Seal Terminal Kit, Brass, Nickel plated w M8 Bolts, Black	Flame Enterprises
Top500-P-R	500 amp Top Seal Terminal Kit, Brass, Nickel plated w M8 Bolts, Red	FlameCorp.com
821A1951	Gasket for 250 amp & 500 amp Top Seal Terminal	Vandapower.com



Fixed-Orientation Terminals

Some applications, especially automotive, require that a cable be attached to a terminal in a specific orientation. This terminal has orientation ridges that allow a cable lug to only be attached to the terminal perpendicular to the centerline of the mounting holes. A Fixed-orientation Terminal assures that a complex automotive cable harness, which might be 12 feet in length and have 20 different power and signal connectors attached, can only be installed on the vehicle in one of two orientations. See datasheets for orientation ridge dimensions.

Fixed-Orientation TFT & SFT Terminals have the same Performance Characteristics and accept the same Flexible Covers and Gaskets as their Standard Terminal Counterparts

	P/N	Description	Pricing
	TFT-P-B-070	100 amp Fixed-orientation Terminal, Brass, Nickel plated w M5 Bolts, Black	Pricing and Delivery
	TFT-P-R-070	100 amp Fixed-orientation Terminal, Brass, Nickel plated w M5 Bolts, Red	please contact these
TFT	TFT-P-E-070	100 amp Fixed-orientation Terminal, Brass, Nickel plated w M5 Bolts, Blue	Authorized Distributors Flame Enterprises
	SFT-P-B-087	250 amp Fixed-orientation Terminal, Brass, Nickel plated w M8 Bolts, Black	FlameCorp.com Vandapower
	SFT-P-R-087	250 amp Fixed-orientation Terminal, Brass, Nickel plated w M8 Bolts, Red	Vandapower.com
	SFT-P-E-087	250 amp Fixed-orientation Terminal, Brass, Nickel plated w M8 Bolts, Blue	







Imperial-threaded Feed-through Terminals

Imperial-threaded fasteners have been the standard on military and civilian aircraft worldwide for over 100 years These Terminals are used on Avionics Power Distribution Panels, Power Conditioning Modules, UAVs and EV Passenger Planes

Imperial-threaded Terminals have the same Performance Characteristics and accept the same Covers and Gaskets as their metric-threaded equivalents P/N Description TFT-P-B-070 TFT-P-R-070 250 amp Lithium Battery Terminal, Brass, Nickel plated w 5/16 bolts (Black, Red, Blue) TFT-P-E-070 SFT-P-B-516 **Pricing and Delivery** SFT-P-R-516 250 amp Lithium Battery Terminal, Brass, Nickel plated w 5/16 bolts (Black, Red, Blue) SFT-P-E-516 Imperial-threaded Terminals are available Worldwide MFT-P-B-516 500 amp Lithium Battery Terminal, Brass, Nickel plated w 5/16 bolts (Black or Red) exclusively through MFT-P-R-516 Rebling's Authorized Distributor XFT-N-B-38 1000 amp Lithium Battery Terminal, Copper, Nickel plated w 3/8 bolts (Black or Red) XFT-N-R-38 Flame Enterprises FlameCorp.com BFT-P-B 750 amp Lithium Battery Terminal, Brass, Nickel plated w 5/16 bolts (Black or Red) BFT-P-R BFT-N-B 1,000 amp Lithium Battery Terminal, Copper, Nickel plated w 5/16 bolts (Black or Red) BFT-N-R



Imperial-threaded SFT, MFT and XFT Terminals have a conical divot cut into each face of their cylindrical conductors

Copper XFT and BFT Terminals have a circular groove cut into each face of their cylindrical conductors

Pricing



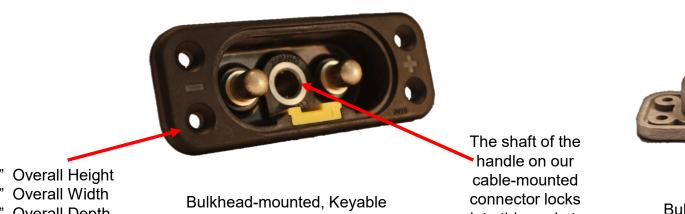
Accessories for Feed-through Terminals

The Accessories shown below fit all Metric-threaded and Imperial-threaded Terminals

P/N	Description	Pricing
698A1789-S-B 698A1789-S-R 698A1789-S-E	Short Rigid Cover for LFT, SFT, MFT or Top Seal terminals (1.44" OAL) (Black, Red or Blue)	Pricing and Delivery please contact these Authorized Distributors
698A1789-L-B 698A1789-L-R 698A1789-L-E	Long Rigid Cover for LFT, SFT, MFT or Top Seal terminals (2.23" OAL) (Black, Red or Blue)	North and South America Flame Enterprises
814A1926-B 814A1926-R 814A1926-E	Rigid Cover for TFT terminal (Black, Red or Blue)	FlameCorp.com Vandapower-USA Vandapower.com/us
815A1927-B 815A1927-R 815A1927-E	Flexible Cover for TFT terminal (Black. Red or Blue)	Europe, Middle East, Africa Vandapower-Belgium
713A1806-B 713A1806-R 713A1806-E	Flexible Cover for LFT, SFT, MFT or Top Seal terminals (3.70" OAL, 0.82" ID) (Black, Red or Blue)	Vandapower.com Australia & Asia Vandapower-Belgium
812A1925	O-Ring for TFT terminal	Vandapower.com
700A1799	O-Ring for LFT terminal	Flame Enterprises FlameCorp.com
716A1814	Gasket for SFT terminal	
716A1815	Gasket for MFT terminal	
821A1951	Gasket for 250 or 500 amp Top Seal Terminals	
720A1817	Gasket for XFT terminal	
651A1811	Gasket for BFT terminal, 1.95" OD	
639A1830-B 639A1830-R	Flexible Cover for BFT or XFT terminals (3.50" OAL, 0.82" ID) (Black or Red)	
648A1758 (Black) 648A1779 (Red)	Rigid, 2 piece, Outer Cover for BFT terminal (3.85" OAL, 1.05" ID) (Black or Red)	15

Double Pole, Bulkhead-mounted, Quick-Disconnect Receptacles

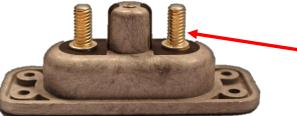
7010 Series



1.62" Overall Height 4.30" Overall Width 1.60" Overall Depth

Receptacle (7010-3)

into this socket.



Cables with crimped terminal lugs can be attached to these rear threaded posts

Bulkhead-mounted Receptacle with EMI-ESD Shielding (7009-51)



Elastomeric Gasket with Dust Cover (685A1766)



Receptacle with Gasket and **Dust Cover installed**



Dust Cover closed

Double Pole, Cable-mounted, Quick-Disconnect Plugs

7020 Series



Two Wire with non-conductive black backshell (7020-T)



Two Wire with non-conductive orange backshell (7020-O)



Two Wire with EMI-ESD conductive gray backshell (7020-E)

Four Wire, Double Pole, Tee Handle (7007-3)



Rotate the Handle

clockwise to engage. It gives positive tactile and visual feedback when mated



Four Wire, Double Pole, Round Handle (7007)

Series and Parallel Configurations



Two Wire with non-conductive black backshell (7020-T)



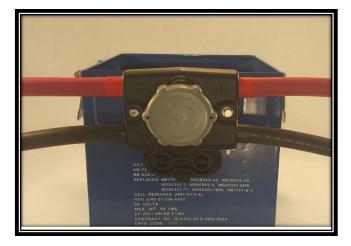
Series Configuration



Two Wire with EMI-ESD conductive gray backshell (7020-E)









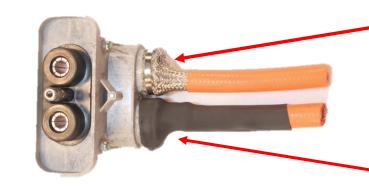
Four Wire, Tee Handle (7007-3)

Parallel Configuration

Cable-mounted Plug with High Voltage Interlock

Magnetic Micro Switch is activated by the neodymium magnet to actuate the contactor in your switching cabinet 1/8" x 5/8" neodymium magnet installed in backshell

Magnet + Micro Switch = kit # 643A1757



Braided cable shield can be flared-out or pig-tailed then attached to the conductive plastic backshell with a zip tie

Shrink tubing can be applied to cover the braided shield



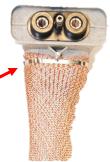
Cable-mounted Plug with EMI-ESD Conductive Backshell

To measure the resistivity of any conductive fiber infused plastic with a multimeter, use a probe with a 10mm diameter tip

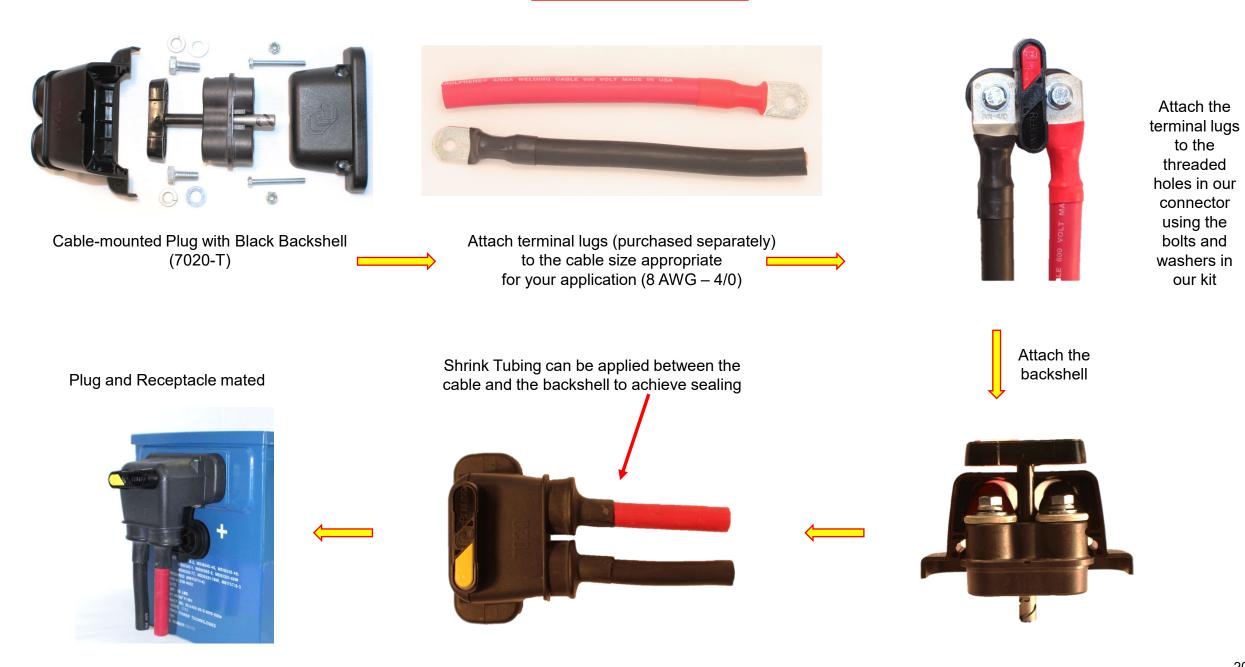
A shielded sleeve can be used to surround un-shielded cable.

The sleeve can be attached to the conductive backshell with a zip tie.

Shrink tubing or tape can be applied to cover the end of the sleeve.



Assembly Process



Dimensions & Specifications

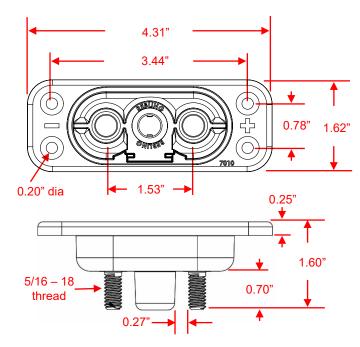
2.89'

0.83"

10

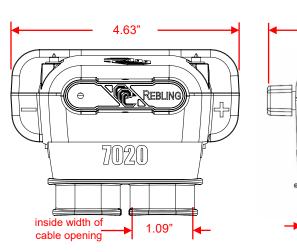
inside height of

cable opening



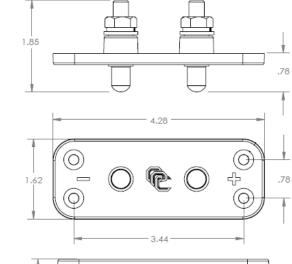
7010 Series

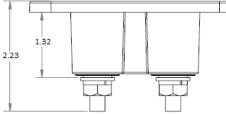
Rated Current = 500 amps Peak Current = 3,000 amps for 1 second Rated Voltage = 1,500 volts IP68 when mounted with gasket UL94 V-0 Flammability Rating Torque on electrical connections: Nominal 30 – 40 in-lbs Max 60 in-lbs



7020 Series

Rated Current = 500 amps Peak Current = 3,000 amps for 1 second Rated Voltage = 1,500 volts IP56 when shrink tubing is applied UL94 V-0 Flammability Rating Torque on electrical connections: Nominal 30 – 40 in-lbs Max 60 in-lbs Torque on backshell bolts: 6 – 8 in-lbs





Battery Swap

Rated Current = 500 amps Peak Current = 3,000 amps for 1 second Rated Voltage = 1,000 volts UL94 V-0 Flammability Rating Torque on electrical connections: Nominal 30 – 40 in-lbs Max 60 in-lbs



Quick-Disconnect Connectors and Accessories

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