### **Rebling Datasheet 1,000 AMP XFT-STYLE FEED THROUGH TERMINAL**

Our 1,000 amp XFT Style terminal has performance characteristics identical to our 1,000 amp BFT Style terminal but is specially designed for mounting onto thin or weak panels. The 1,000 amp XFT Style terminal's nickel-plated copper core stays cool at 1,000 amps of continuous current or at short term peaks of 5,000 amps. These terminals are designed for the temperature sensitive environment of lithium battery cells and the charging rates of ultracapacitors and supercapacitors. Equipping your power module with these watertight, single pole, wrench disconnect copper terminals will facilitate the incorporation of your modules into cutting edge EV, APU, Fuel Cell and Weapons Systems. Whether you are designing a liquid-cooled, pressurized battery pack for EV Mobility, Regenerative Braking, Rail Gun or Laser Weapon applications or are simply bringing high current through a bulkhead of any material or thickness, our XFT Style 1,000 amp terminals, Covers and Accessories were designed with your application in mind.

> 1,000 amp 5,000 amp

4,000 amp

2,500 amp

2,000 amp

2,000 5,000

70

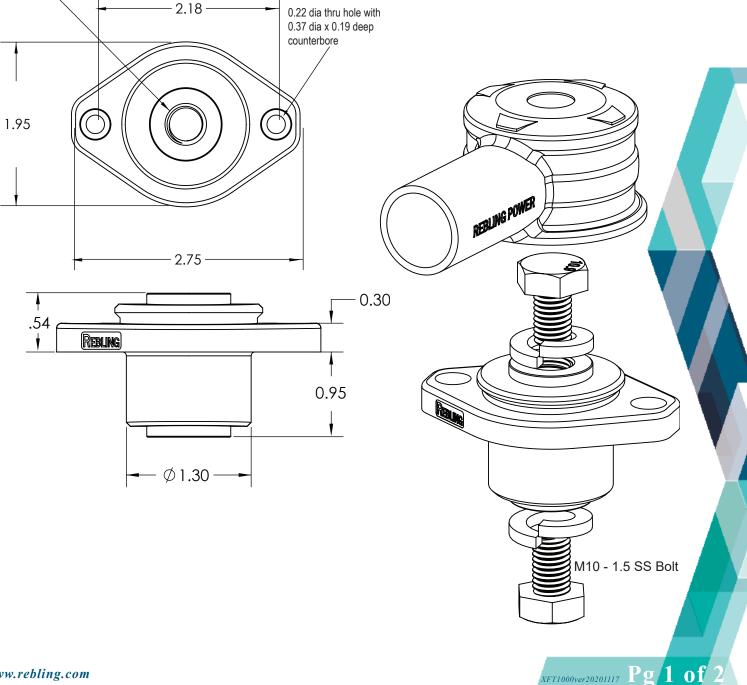
#### ELECTRICAL

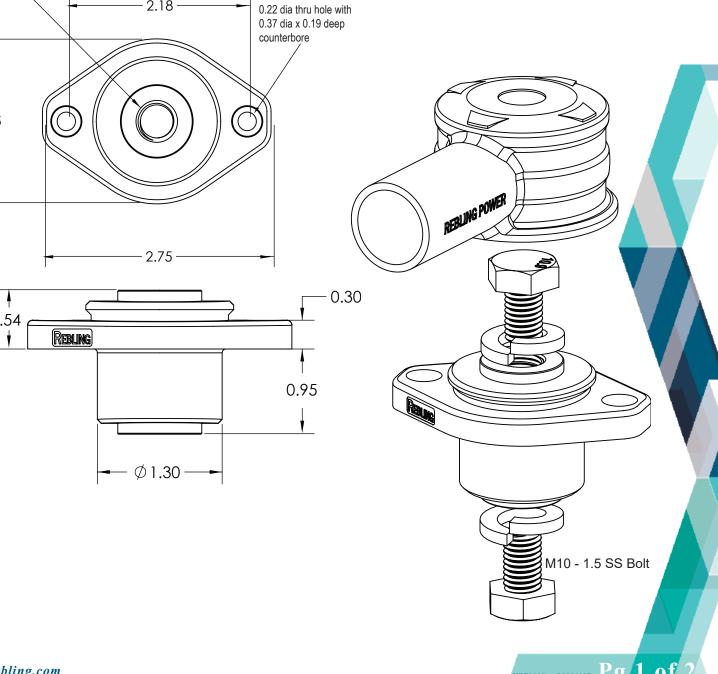
<ul> <li>Current (each of these current profiles causes a maximum 30°C temperature rise)</li> <li>Continuous Rated Current (CRC) (per IEC 61984 and UL1977)</li> <li>Current Profile #2 - 50% CRC for 60min + 1 sec peak + 50% CRC for 60 min</li> <li>Current Profile #3 - 50% CRC for 60min + 10 sec peak + 50% CRC for 60 min</li> <li>Current Profile #4 - 50% CRC for 60min + 30 sec peak + 50% CRC for 60 min</li> <li>Current Profile #5 - 50% CRC for 60min + 60 sec peak + 50% CRC for 60 min</li> <li>Voltage</li> <li>Rated Voltage (volts, continuous)</li> <li>Minimum Dielectric Withstanding Voltage (volts, AC or DC)</li> <li>Contact Resistance Max (Micro Ohms)</li> </ul>
MECHANICAL
Wire Size Range

Maximum Wire Size	
► Terminal Only	750 MCM (380mm <sup>2</sup> )
► With Flexible Cover ► Maximum Cable OD (inches)	4/0 (110mm²)
<ul> <li>Maximum Cable OD (inches)</li> <li>Terminal Only</li> </ul>	2.00
► With Flexible Cover	0.80
Minimum Panel Thickness (inches)	0.025
Environmental Sealing	
With Standard Kit Components	IP65
With Optional Gasket	IP68
Operating Temperature (C°)	
Terminal and Rigid Cover	-40° to 125°
► Flexible Cover	-40° to 90°
Flammability Rating (per UL94) <ul> <li>Terminal</li> </ul>	V-0
<ul> <li>Flexible Cover</li> </ul>	V-0
Mechanical Shock	50gs - 3 axes
Vibration	10gs - 3 axes

# two M10 tapped blind holes

0.88 diameter brass conductor with





#### CERTIFICATIONS

UL and CE Conformance **RoHS** Compliance

Certificates are downloadable from Rebling.com All parts itemized on this datasheet are RoHS compliant



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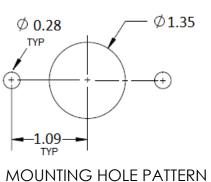
	P/N	Description*	Plastic Color	Weight (Grams)	Min Thick (mm)	UL 94 Rating	Plastic Material #	
	XFT-N-B	Terminal, Copper, Nickel plated	Black	195	2.5	V-0	000A1824	
	XFT-N-R	Terminal, Copper, Nickel plated	Red	195	2.5	V-0	000A1824	
	639A1830-B	Flexible Cover (0.82" ID)	Black	25	2.0	V-0	000A1825	
	639A1830-R	Flexible Cover (0.82" ID)	Red	25	2.0	V-0	000A1825	
	720A1817	Gasket for XFT Terminal	Black	4	2.0	V-0	000A1834	
	*Terminal includes two 10mm bolts and two 10mm split washers							



#### **MOUNTING and ASSEMBLY**

Minimum Panel Thickness (inches) Mounting Hole Pattern (see diagram) Recommended Torque on Electrical Connection bolts Recommended Torque on flat-bottomed panel mounting screws Application Recommendations

- - ▶ 91828A241 ▶ 9452K16
- M5 stainless nut M5 O-Ring



XFT Product Family

0.025 Three Circular Holes 60 to 80 in-lbs 5 to 8 in-lbs

When using 4/0 cable with flexible cover, crimp lug to cable then push into cover using lubricant
 Panel Mount Hardware for IP68 (McMaster Carr)
 92855A516
 M5 stainless socket head screw

(inches)

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