## **Rebling Datasheet**

## **Commerical Cable-Mounted Keyable Plug**

Rebling's Commercial Grade Keyable, two wire, high amperage, high voltage, quick release connector was designed for extreme power applications requiring maximum reliability, performance and safety. The environmental design keeps the elements out, providing an IP56 seal. The keying combinations can be used to differentiate various voltage or current levels to prevent errors by your system assembly, operations or maintenance personnel. These two pole, cable-mounted, keyable plugs are designed to mate with our commercial grade, bulkhead-mounted receptacle connectors which have the same keying option. Our keyable plugs, if no key is inserted, can mate with any of our legacy non-keyable bulkhead-mounted receptacle connectors. A magnetic HVIL switch is available as an option.

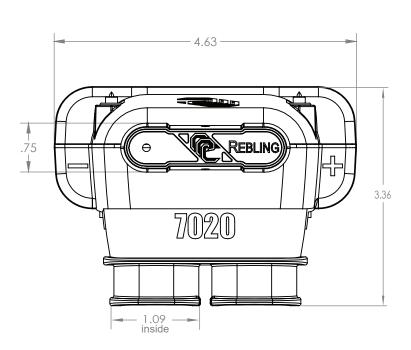
#### ELECTRICAL

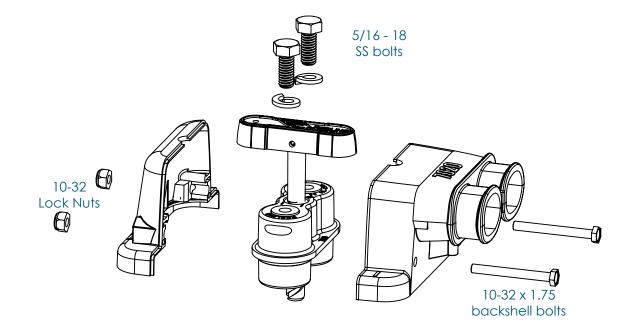
Current		
Continuous Rated Current (CRC) (per UL1977)	500 amp	
► Current Profile #2 - 50% CRC for 60min + 1 sec peak + 50% CRC for 60 min	3,000 amp	
Current Profile #3 - 50% CRC for 60min + 10 sec peak + 50% CRC for 60 min	2,000 amp	
Current Profile #4 - 50% CRC for 60min + 30 sec peak + 50% CRC for 60 min	1,500 amp	
► Current Profile #5 - 50% CRC for 60min + 60 sec peak + 50% CRC for 60 min	1,000 amp	
Voltage	.,	
► Rated Voltage (volts DC)	1,500	
<ul> <li>Dielectric Withstanding Voltage (volts DC)</li> </ul>	5,000	
Contact Resistance Max (Micro Ohms)	70	
HVIL Circuit	Yes - Optional	
EMI Shielded	Yes - see datasheet for 7020-E	
MECHANICAL		
Wire Size Range		
Maximum Wire Size	4/0	
Maximum Cable OD (inches)	0.82	
<ul> <li>Maximum Terminal Lug Tongue Width (inches)</li> </ul>	1.08	
<ul> <li>Maximum Terminal Lug Web Width (inches)</li> </ul>	0.45	
Environmental Sealing when mated	0.10	
► With standard kit components	IP55	
► With optional, shrink tubing	IP56	
Operating Temperature	1.00	
► Minimum (°C) to Maximum (°C)	-40° to 125°	
Flammability Rating (per UL94)	V-0	
Mechanical Shock	50gs - 3 axes	
Vibration	10gs - 3 axes	
Mating Cycles		
► No Electrical Load	5,000	
Mating Force	0,000	
Maximum Mating or Unmating torque after 10 matings	12 in-lbs	
<ul> <li>Maximum Mating or Unmating torque after 5,000 matings</li> </ul>	12 in-lbs	
Torque on Electrical Connections	12 11 100	
Recommended	30-40 in-Ibs	
Material Failure	80 in-lbs	
Torque on Backshell Bolts		
Recommended	6-8 in-lbs	
CERTIFICATIONS		
CENTRICATIONS		



UL Conformance **RoHS** Compliance

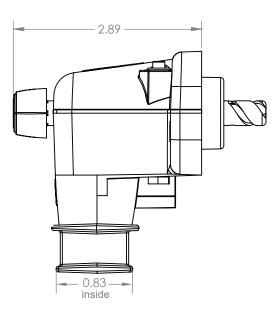
Certificate is downloadable from Rebling.com All parts itemized on this datasheet are RoHS compliant













# **Rebling Datasheet Commerical Cable-Mounted Keyable Plug**

with non-conductive Blac with non-conductive Oran d in Kit (no H/W) Blac d in Kit (no H/W) Oran ded in kit Blac	ange 300 ack 88 ange 88	3.4 3.4 1.5 1.5 1.5	V-0 V-0 V-0 V-0	000A1272 000A1272 000A1824 000A1824
d in Kit (no H/W) Blac d in Kit (no H/W) Oran	ack 88 ange 88	1.5	V-0 V-0	000A1824
d in Kit (no H/W) Oran	ange 88	1.5	V-0	
				000A1824
led in kit Blac	Jok 15	15		
		1.0	V-0	000A1861
Oran	ange 2.5	1.5	V-0	000A1862
Blu	lue 2.5	1.5	V-0	000A1862
Gree	een 2.5	1.5	V-0	000A1862
Pin	ink 2.5	1.5	V-0	000A1862
	hite 2.5	1.5	V-0	000A1862
Whi		1.5	V-0	000A1862
	llow 2.5	1		
	VVI			



### **MOUNTING and ASSEMBLY**

Recommended Torque on Electrical Connection bolts Application Recommendations

- ► EMI Shielding see datasheet for EMI plug 7020-E
- ► Torque on Backshell Bolts

30 to 40 in-lbs

For extreme vibration applications which exceed the limits published above, use a small amount of adhesive to glue each key into its slot. Recommended adhesive: 3M's DP190
 Optional HVIL Switch - HVIL Kit P/N 643A1757 includes a 1/8" x 5/8" cylindrical neodymium magnet which is inserte into a cylidrical opening on the face of the cable-mounted plug which aligns with the magnetic reed switch which is mounted on the panel below the bulkhead-mounted receptacle

6 to 8 in-lbs

