



860-007P

**Specifications**

- Operating temperature: -30°C to +105°C (cordset style 1)  
-55°C to +125°C (cordset style 2)
- Dielectric withstanding voltage: 500 VAC
- Current rating: 5 A
- Contact resistance: 20 milliohms
- Water immersion: MIL-STD-810G Meth. 512.5
- Ingress protection: IP67
- Mechanical life: 2000 cycles

**Connector Construction**

- Shell: stainless steel
- Bayonet pins, retainer ring and torsion spring: stainless steel
- Coupling ring: aluminum
- Lid: aluminum
- Contacts: copper alloy, gold plated
- Insert: glass-filled thermoplastic
- Ground spring: gold-plated stainless steel
- Gasket: fluorosilicone
- Potting compound: RTV silicone

**Cable Construction**

- Data pair: 90 ohm shielded twisted pair, #26 (19/38) AWG silver-coated copper, PFA insulation
- Power wires: (2) #22 (19/34) AWG silver-coated copper, TFE insulation
- Overmold: polyamide or thermoplastic elastomer
- shield: tin-coated copper microfilament, 90° minimum optical coverage
- Jacket: thermoplastic polyurethane (TPU) or thermoplastic elastomer (TPV)

Lightweight 860-007P MouseBud™ harsh environment cordsets are shielded, overmolded and 100% tested. Wired per standard US Army Personal Area Network (PAN) protocol, these USB+BAT cordsets have dual power wires to handle standard USB power plus up to 5 amp battery power. Cable has an individually shielded 90 ohm data pair plus overall braided tinned copper shield with 90% minimum optical coverage. Shield is terminated to the connector with a stainless steel Band-Master® ATS strap. Water-resistant, meets MIL-STD-810G immersion requirement. Simply push to mate and lock. To release, actuate thumb trigger on coupling ring. Style 2 cordset with thermoplastic rubber jacket and overmold has excellent cold bend performance to -55° C. Connectors feature spring-loaded gold plated contacts, stainless steel shells and self-actuating bayonet coupling rings. 5A current rating, 500VAC dielectric withstanding voltage rating.

How To Order							
	860-007P-	B7	ZR	1	A	2-	36
Product	860-007P = MouseBud cordset for USB+BAT						
Contact Arrangement (Table 1)	B7 = seven contacts, size B shell						
Finish	ME = electroless Ni MT = Nickel-PTFE ZR = Black zinc-nickel						
Release Trigger Style (Table 2)	1 = Low-profile release trigger 2 = Extended release trigger						
Key Position (Table 3)	A = position A    D = position D B = position B    E = position E C = position C    F = position F						
Cordset Style (Table 4)	1 = polyurethane cable jacket with polyurethane overmold 2 = polyurethane cable jacket with polyamide overmold						
Length	Overall Length in inches, 12 inch minimum						

Table I: Contact Arrangement		
<p><b>B7</b></p>	Contact Arr.	<b>B7</b>
	# of Contacts	7
	Contact Diameter	.038 (0.96)
	Current Rating	5A

Table 2: Release Trigger Style	
Low-profile release trigger	Extended release trigger

Table 3: Key Positions			
Code	A°	B°	C°
<b>A</b>	120°	200°	265°
<b>B</b>	80°	150°	265°
<b>C</b>	95°	150°	235°
<b>D</b>	95°	200°	320°
<b>E</b>	95°	225°	265°
<b>F</b>	120°	225°	320°

SERIES 860

MouseBud™

The snap-lock, trigger-release connector

860-007P Plug Cordsets for USB+BAT

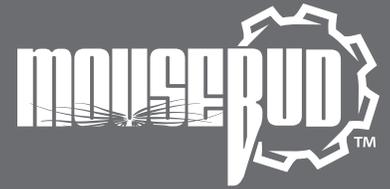


Table 4: Cordset Style

Property	Style 1	Style 2
Cable jacket	Thermoplastic elastomer (TPV)	Thermoplastic polyurethane (TPU)
Overmold	Thermoplastic elastomer (TPV)	Polyamide
Operating temperature	-55° C to +125° C	-30° C to +105° C
Flexibility	Excellent	Good
Water Resistance	Waterproof	Waterproof
Solvent Resistance, Cable Jacket	Good	Excellent
Solvent Resistance, Overmold	Good	Fair
Weatherability	Excellent	Excellent
Abrasion Resistance	Good	Excellent
Flammability	Flame retardant UL 94 HB	Flame retardant UL 94 V-0

