

The snap-lock, trigger-release connector

860-002P Plug Cordsets for USB+BAT



860-002P

Lightweight 860-002P 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.

Contact Arrangement									
	<table border="1"> <tr> <td>Contact Arr.</td> <td>B7</td> </tr> <tr> <td># of Contacts</td> <td>7</td> </tr> <tr> <td>Contact Diameter</td> <td>.038 (0.96)</td> </tr> <tr> <td>Current Rating</td> <td>5A</td> </tr> </table>	Contact Arr.	B7	# of Contacts	7	Contact Diameter	.038 (0.96)	Current Rating	5A
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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)

How To Order	
860-002P- B7 ZR 1 A 2- 36	
Product	860-002P = MouseBud cordset for USB+BAT
Contact Arrangement	B7 = seven contacts, size B shell
Finish	M = electroless NI MT = Nickel-PTFE ZR = Black zinc-nickel
Release Trigger Style (Table 1)	1 = Low-profile release trigger 2 = Extended release trigger
Key Position (Table 2)	A = position A D = position D B = position B E = position E C = position C F = position F
Cordset Style (Table 3)	1 = polyurethane cable jacket with polyurethane overmold 2 = polyurethane cable jacket with polyamide overmold 2 = rubber cable jacket and rubber overmold
Length	Overall Length in inches, 12 inch minimum

Table 1: Release Trigger Style	
Low-profile release trigger	Extended release trigger

Table 2: Key Positions			
Code	A°	B°	C°
A	120°	200°	265°
B	80°	150°	265°
C	95°	150°	235°
D	95°	200°	320°
E	95°	225°	265°
F	120°	225°	320°

SERIES 860

MouseBud™

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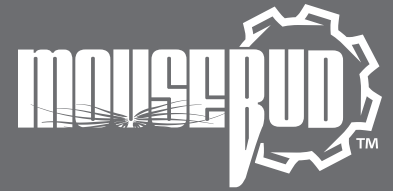


Table 4: Cordset Style		
Property	Style 1	Style 2
Cable jacket	Thermoplastic polyurethane (TPU)	Thermoplastic elastomer (TPV)
Overmold	Polyamide	Thermoplastic elastomer (TPV)
Operating temperature	-30° C to +105° C	-55° C to +125° C
Flexibility	Good	Excellent
Water Resistance	Waterproof	Waterproof
Solvent Resistance, Cable Jacket	Excellent	Good
Solvent Resistance, Overmold	Fair	Good
Weatherability	Excellent	Excellent
Abrasion Resistance	Excellent	Good
Flammability	Flame retardant UL 94 V-0	Flame retardant UL 94 HB

