mPOWER[®]

ULTRA MICRO POWER SYSTEM

(2.00 mm) .0787" PITCH



18 A m p s

> 17.5 A 16.3 A

> 13.9 A

13.2 A

8.9 A

FEATURES & BENEFITS

- Board-to-board, cable-to-board and cable-to-cable
- Up to 18 A per blade (1 blade powered)
- Choice of 2 to 10 positions
- 5 mm to 20 mm stack heights; vertical and right-angle orientations
- Tin or 10 μ " Gold plated power blades; 30 μ " Gold plating available to meet specific regulations
- Optional weld tabs
- Mating cable assemblies with plastic top or metal side latching
- Severe Environment Testing qualified (UMPT/UMPS); aligns with MIL-DTL-55302. Visit samtec.com/set

CREEPAGE & CLEARANCE

PINS 1

2

3

4

10

allowable temperature.

UMPT/UMPS					
CREEPAGE	2.20 mm				
CLEARANCE	1.65 mm				

CURRENT RATING (PER CONTACT)

UMPT/UMPS

17.8 A

15.5 A

13.5 A

12.9 A

9.8 A

Ratings are derated 20% with 30 °C rise to maximum

Selectively loading contacts achieves customer specific creepage and clearance requirements.

KEY SPECIFICATIONS (UMPT/UMPS)

STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	VOLTAGE RATING	LEAD-FREE SOLDERABLE
5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20 mm	Black LCP	Copper Alloy	Sn or Au over 50 μ" (1.27 μm) Ni	-55 °C to +105 °C with Tin -55 °C to +125 °C with Gold	460 VAC/ 650 VDC	Yes

mPOWER®

ULTRA MICRO POWER CABLE

LATCH OPTION WIRE GAUGE NO. OF POSITIONS PLATING **SERIES LENGTH PINOUT** OPTION (Latching (Leave blank **UMPC** -02, -03, -04, -"XX.X" -16 for Single ended) required) = 10 μ" (0.25 μm) = Ultra Micro PVC Cable -05, -06, -07, = 16 AWG = Assembled Gold on contact, Length in Inches -08, -09, -10 -P Tin on tail -16C PVC Cable = Plastic -1 **UMPCT** =Color Coded Cable Single ended = (76.2 mm) 03.0" min. = Pin 01 top latch = Ultra Micro to Pin 01 = 30 μ " (0.76 μ m) Gold on contact, Blue *Teflon (UMPC only) Double ended = (101.6 mm) 04.0" min. -M Fluoropolymer -2 Cable Tin on tail = Metal -18 (2-4 positions) Double ended = (127.0 mm) 05.0" min. side latches = Pin 01 = 18 AWG to Pin N **-T** = Tin UMPC(T) (5-10 positions) - 18C **Board Mates:** UMPC/UMPT (TIN PLATING) = Color Teflon™ Fluoropolymer Coded Cable Double ended = (UMPC only) CURRENT RATING (PER CONTACT) (Plastic (-P) or metal (-M) (228.6 mm) 09.0" min. (2-4 positions) PINS latch required) CABLE COLOR CODING Double ended = (254.0 mm) 10.0" min. (5-10 positions) 18.1 A 15.8 A COLOR PIN No. of **SPECIFICATIONS** 3 13.5 A positions x **BROWN** 4 12.2 A 2.00) .0787 + (11.38) .448 RED Insulator Material: 10 9.2 A ORANGE Contact Material: Assembled Length YELLOW Copper Alloy 5 GREEN Plating: Sn or Au over 50 µ" (1.27 µm) Ni (23.48) .924 ЛΠ BLUE 6 UMPC-04-X-XX-M-XX.X SHOWN VIOLET Wire: 8 GRAY 16 or 18 AWG Voltage Rating: 435 VAC 9 WHITE No. of positions x (2.00) .0787 + (8.85) .348 10 BLACK (23.50) .925 *Teflon™ is a trademark of The Chemours Company FC, LLC used under license by **UMPC CABLE HOLDER** (6.20) .244 (9.50) .374 NUMBER OF **SERIES LEAD STYLE** For wiring option information refer to drawings on web. **POSITIONS** UMPC-03-X-XX-P-XX.X SHOWN -02, -03, -04, 01 = 16 AWG -05, -06, -07, -08, -09, -10 View complete specifications at: samtec.com?UMPC & samtec.com?UMPCT IMPCC 02 = 18 AWG**LATCH PLATING IMPC** NO. OF POSITIONS PACKAGING **OPTION** -02, -03, -04, -05, -P -R = Plastic = 10 μ" (0.25 μm) Gold Full Reel -06, -07, -08, -09, -10 top latch on contact, Tin on tail (5,000 Contacts) -M -M= Mini Reel (1,000 Contacts) = Metal side latches No. of positions x (2.00) .0787 — + (10.55) .415 No. of positions (2.00) .0787-+ (8.85) .348 = Bubble Bag (35 Contacts) Ş

Note:

Some lengths, styles and options are non-standard, non-returnable.

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Hand Tool: CAT-HT-489-1618-13

TOOLING

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Mini Applicator: CAT-MC-489-1618-XX-01