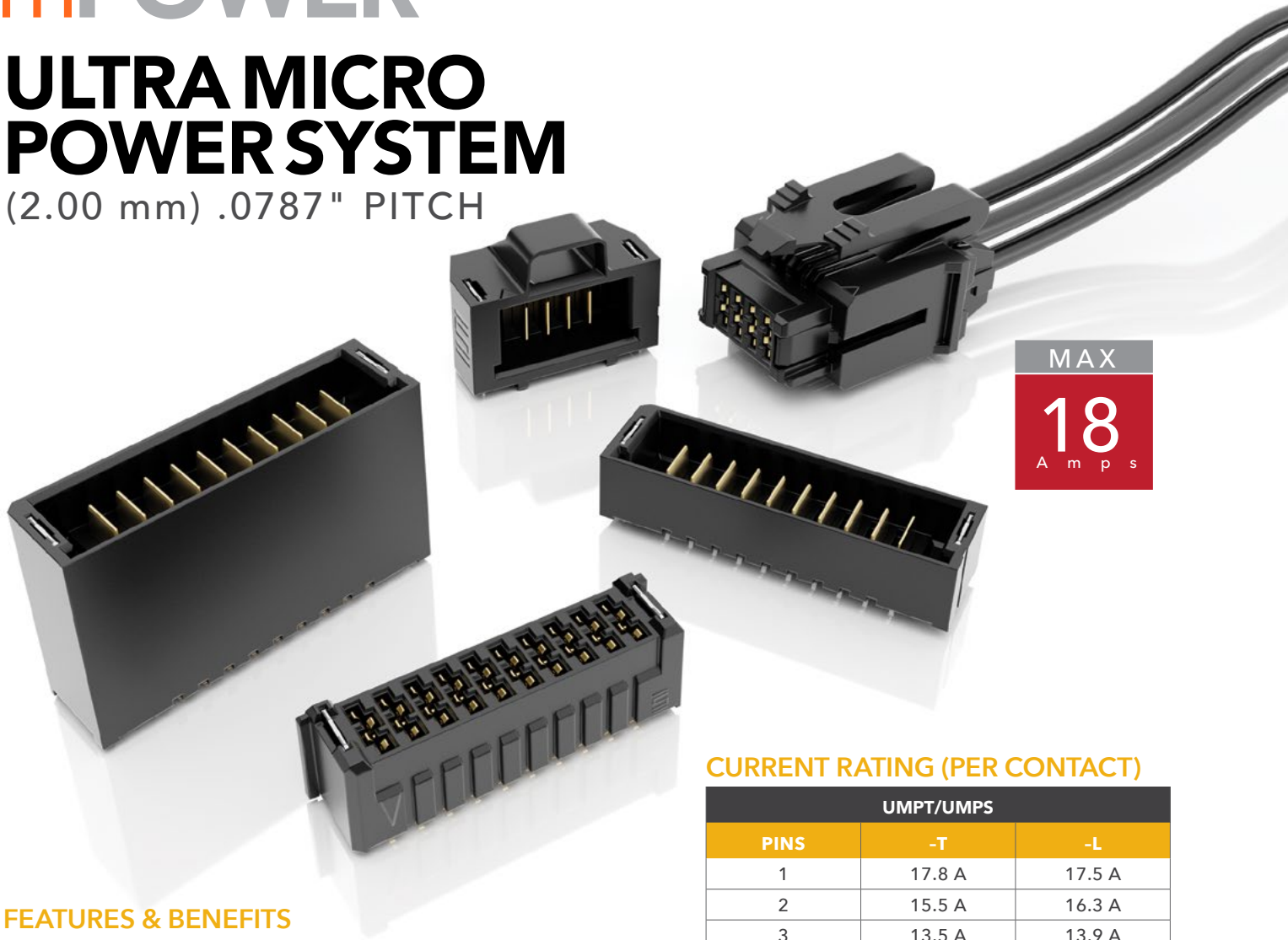


ULTRA MICRO POWER SYSTEM

(2.00 mm) .0787" PITCH



MAX
18
A m p s

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

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

CURRENT RATING (PER CONTACT)

PINS	UMPT/UMPS	
	-T	-L
1	17.8 A	17.5 A
2	15.5 A	16.3 A
3	13.5 A	13.9 A
4	12.9 A	13.2 A
10	9.8 A	8.9 A

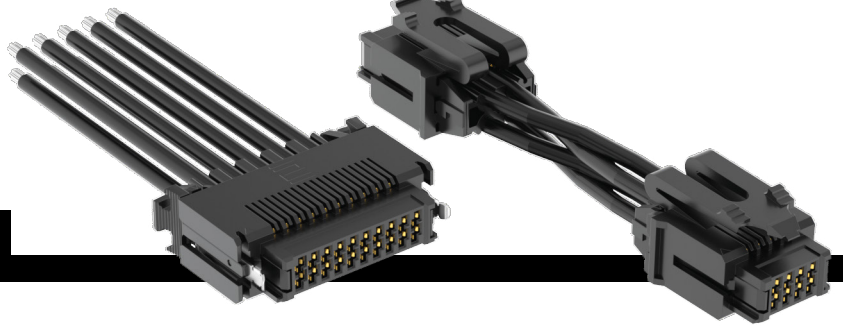
Ratings are derated 20% with 30 °C rise to maximum allowable temperature.

CREEPAGE & CLEARANCE

UMPT/UMPS	
CREEPAGE	2.20 mm
CLEARANCE	1.65 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements.

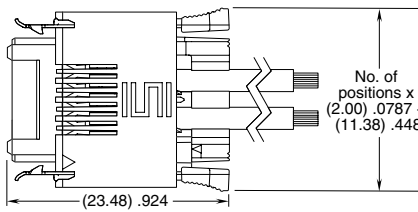
ULTRA MICRO POWER CABLE



SERIES	NO. OF POSITIONS	PLATING OPTION	WIRE GAUGE	LATCH OPTION	LENGTH	PINOUT
UMPC = Ultra Micro PVC Cable	-02, -03, -04, -05, -06, -07, -08, -09, -10	-L = 10 μ" (0.25 μm) Gold on contact, Tin on tail	-16 = 16 AWG	(Latching required)	-"XX.X" = Assembled Length in Inches	(Leave blank for Single ended)
UMPCT = Ultra Micro Blue *Teflon™ Fluoropolymer Cable		-S = 30 μ" (0.76 μm) Gold on contact, Tin on tail	-16C = Color Coded Cable (UMPC only)	-P = Plastic top latch	PVC Cable Single ended = (76.2 mm) 03.0" min. Double ended = (101.6 mm) 04.0" min. (2-4 positions) Double ended = (127.0 mm) 05.0" min. (5-10 positions)	-1 = Pin 01 to Pin 01
UMPC(T) Board Mates: UMPT (Plastic (-P) or metal (-M) latch required)		-T = Tin	-18 = 18 AWG	-M = Metal side latches	Teflon™ Fluoropolymer Double ended = (228.6 mm) 09.0" min. (2-4 positions) Double ended = (254.0 mm) 10.0" min. (5-10 positions)	-2 = Pin 01 to Pin N
			-18C = Color Coded Cable (UMPC only)			

SPECIFICATIONS

Insulator Material: Black LCP
Contact Material: Copper Alloy
Plating: Sn or Au over 50 μ" (1.27 μm) Ni
Wire: 16 or 18 AWG
Voltage Rating: 435 VAC



UMPC-04-X-XX-M-XX.X SHOWN

UMPC/UMPT (TIN PLATING)	
PINS	CURRENT RATING (PER CONTACT)
1	18.1 A
2	15.8 A
3	13.5 A
4	12.2 A
10	9.2 A

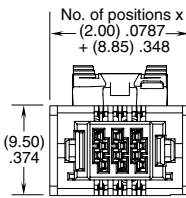
CABLE COLOR CODING	
PIN	COLOR
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GRAY
9	WHITE
10	BLACK

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

Note: For wiring option information refer to drawings on web.

UMPC CABLE HOLDER (Required for use with IMPC)

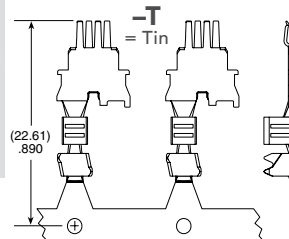
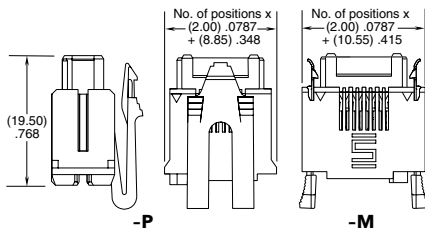
SERIES	NUMBER OF POSITIONS	LEAD STYLE
IMPC	-02, -03, -04, -05, -06, -07, -08, -09, -10	01 = 16 AWG
		02 = 18 AWG



UMPC-03-X-XX-P-XX.X SHOWN

View complete specifications at: samtec.com?UMPC & samtec.com?UMPT

IMPC	NO. OF POSITIONS	LATCH OPTION	CC489	01	PLATING	PACKAGING
	-02, -03, -04, -05, -06, -07, -08, -09, -10	-P = Plastic top latch			-L = 10 μ" (0.25 μm) Gold on contact, Tin on tail	-R = Full Reel (5,000 Contacts)
		-M = Metal side latches			-S = 30 μ" (0.76 μm) Gold on contact, Tin on tail	-M = Mini Reel (1,000 Contacts)
					-T = Tin	-B = Bubble Bag (35 Contacts)



TOOLING

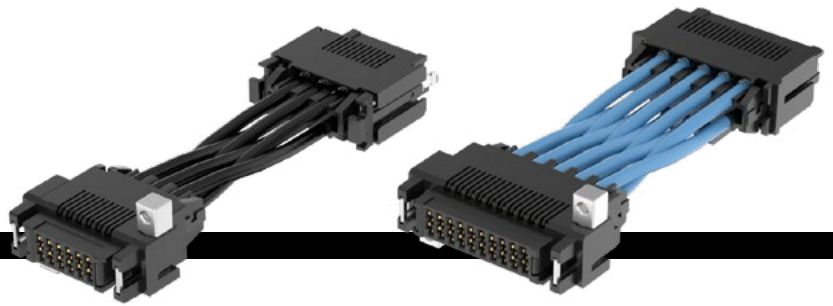
Hand Tool: CAT-HT-489-1618-13

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

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

View complete specifications at: samtec.com?IMPC & samtec.com?CC489

ULTRA MICRO CABLE-TO-CABLE



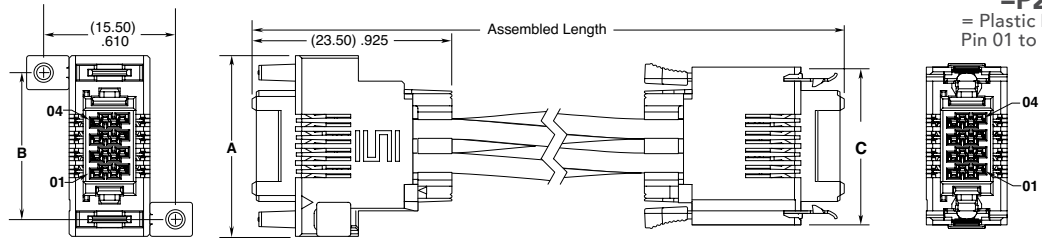
SERIES	NO. OF POSITIONS	PLATING OPTION	WIRE GAUGE	LENGTH	PINOUT
UMPI = Ultra Micro PVC Cable UMPI(T) = Ultra Micro Blue *Teflon™ Fluoropolymer Cable	-02, -03, -04, -05, -06, -07, -08, -09, -10	-L = 10 μ" (0.25 μm) Gold on contact, Tin on tail -S = 30 μ" (0.76 μm) Gold on contact, Tin on tail -T = Tin	-16 = 16 AWG -16C = 16 AWG Color Coded Cable (not available with UMPI(T)) -18 = 18 AWG -18C = 18 AWG Color Coded Cable (not available with UMPI(T))	"XX.X" = Assembled Length in Inches Single ended = (76.2 mm) 03.0" min. Double ended = (101.6 mm) 04.0" min. (2-4 positions) Double ended = (127.0 mm) 05.0" min. (5-10 positions)	(Leave blank for Single ended) -M1 = Metal Latch Pin 01 to Pin 10 -M2 = Metal Latch Pin 01 to Pin N -P1 = Plastic Latch Pin 01 to Pin 10 -P2 = Plastic Latch Pin 01 to Pin N

UMPI(T) PRELIMINARY

UMPI(T)
Cable Mates:
UMPE(T)
End 2 Mates:
UMPE(T), UMPT

SPECIFICATIONS

Insulator Material: Black LCP
Contact Material: Copper Alloy
Plating: Sn or Au over 50 μ" (1.27 μm) Ni
Wire: 16 or 18 AWG
Voltage Rating: 00 Volt = 16 & 18 AWG PVC
 300 Volt = 16 AWG Teflon™ Fluoropolymer
 600 Volt = 18 AWG Teflon™ Fluoropolymer



CABLE COLOR CODING	
PIN	COLOR
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GRAY
9	WHITE
10	BLACK

NO. OF POSITIONS	A	B	C
-02	(17.25) .679	(13.25) .522	(14.55) .573
-03	(19.25) .758	(15.25) .600	(16.55) .652
-04	(21.25) .837	(17.25) .679	(18.55) .730
-05	(23.25) .915	(19.25) .758	(20.55) .809
-06	(25.25) .994	(21.25) .837	(22.55) .888
-07	(27.25) 1.073	(23.25) .915	(24.55) .967
-08	(29.25) 1.152	(25.25) .994	(26.55) 1.045
-09	(31.25) 1.230	(27.25) 1.073	(28.55) 1.124
-10	(33.25) 1.309	(29.25) 1.152	(30.55) 1.203

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

Notes: Teflon™ Fluoropolymer cable is intended for crimp only. Contact Samtec for solderable cable applications.

For wiring option information refer to drawings on web.

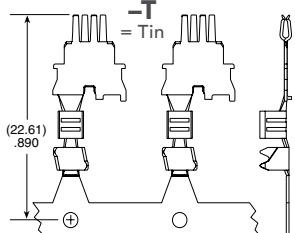
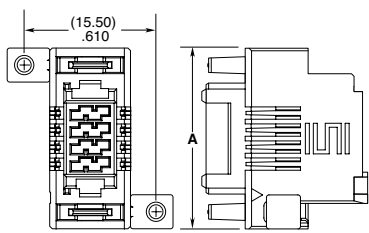
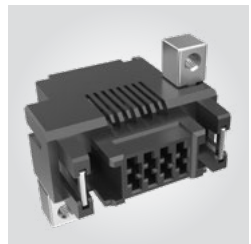
Some lengths, styles and options are non-standard, non-returnable

UMPI CABLE HOLDER (Required for use with IMPC)

SERIES	NUMBER OF POSITIONS	LEAD STYLE
IMPC	-02, -03, -04, -05, -06, -07, -08, -09, -10	01 = 16 AWG 02 = 18 AWG

View complete specifications at: samtec.com?UMPI & samtec.com?UMPT

IMPC	NO. OF POSITIONS	LATCH OPTION	CC489	01	PLATING	PACKAGING
	-02, -03, -04, -05, -06, -07, -08, -09, -10	-P1 = Panel Mount			-L = 10 μ" (0.25 μm) Gold on contact, Tin on tail -S = 30 μ" (0.76 μm) Gold on contact, Tin on tail -T = Tin	-R = Full Reel (5,000 Contacts) -M = Mini Reel (1,000 Contacts) -B = Bubble Bag (35 Contacts)



TOOLING

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

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

View complete specifications at: samtec.com?IMPC & samtec.com?CC489