POWER™ STRIP

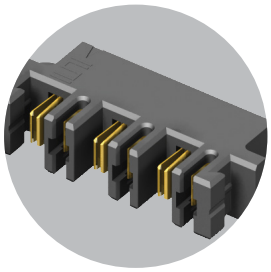
HIGH POWER SYSTEMS

20-60 A per blade

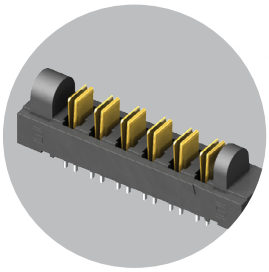
FEATURES & BENEFITS

- Current Rating: 23 A - 58.7 A per power blade
- 3.81 mm, 5.00 mm and 6.35 mm pitch
- Dual blade contact system
- Power only or power/signal combinations available
- Right-angle and vertical orientations
- Rugged screw down and locking clip options
- Discrete wire cable assemblies with 10-16 AWG wire (see pages 246-248)
- "Hinged" for unique mating in any orientation from 0° to 90° and space confined applications





Hermaphroditic options
samtec.com?MPPT and
samtec.com?UPPT



Hinging options available
samtec.com?FMPT and
samtec.com?FMPS

CREEPAGE & CLEARANCE

SERIES	CREEPAGE	CLEARANCE
UPT/UPS/UPPT	5.50 mm	1.51 mm
MPT/MPS/MPTC/MPSC	2.95 mm	2.71 mm
PET/PES/PETC/PESC	3.66 mm	3.31 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements.

KEY SPECIFICATIONS

SERIES	PITCH	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
UPT/UPS	(3.81 mm) .150"	Black LCP	BeCu	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C (Sn) -55 °C to +125 °C (Au)	23 A (1 pin powered)	438 VAC/619 VDC	Yes
UPPT	(3.81 mm) .150"	Black LCP	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C (Sn) -55 °C to +125 °C (Au)	21.4 A (1 pin powered)	425 VAC/601 VDC	Yes
MPT/MPS	(5.00 mm) .1969"	Black LCP	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C (Sn) -55 °C to +125 °C (Au)	28 A (1 pin powered)	350 VAC/495 VDC	Yes
MPTC/MPSC	(5.00 mm) .197" (pwr) (2.00 mm) .079" (sig)	Black LCP	Signal: Phosphor Bronze Terminal: Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C (Sn) -55 °C to +125 °C (Au)	28 A (pwr - 1 pin powered) 5 A (sig - 4 pins powered)	350 VAC/495 VDC	Yes
PET/PES	(6.35 mm) .250"	Black LCP	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C (Sn) -55 °C to +125 °C (Au)	58.7 A (1 pin powered)	450 VAC/636 VDC	Yes
PETC/PESC	(6.35 mm) .250" (pwr) (2.54 mm) .100" (sig)	Black LCP	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C (Sn) -55 °C to +125 °C (Au)	31 A (pwr - 1 pin powered) 5.7 A (sig - 4 pins powered)	650 VAC/920 VDC (pwr) 450 VAC/636 VDC (sig)	Yes

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

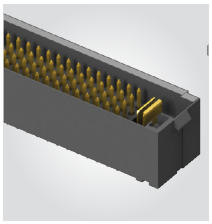
POWER STRIP 30

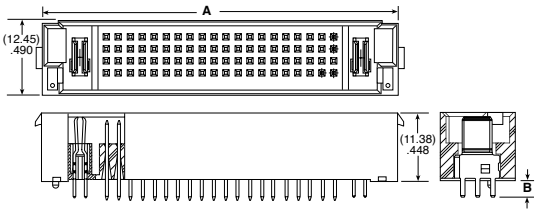
(5.00 mm) .197"(PWR) / (2.00 mm) .079"(SIG) • 30 A SIGNAL/POWER COMBO SYSTEMS

SERIES	–	POWER PINS	–	SIGNAL PINS	–	POWER PINS	–	LEAD STYLE	–	TAIL LENGTH	–	PLATING OPTION	–	V	–	OTHER OPTION
MPTC Terminal **MPSC** Socket		Per end **–01** **–02**		**–16** **–24** **–40** **–80**		Per end **–01** **–02**		**–6.30** = (6.30 mm) 0.248" (MPTC only) **–7.70** = (7.70 mm) 0.303" (MPSC only)		**–01** = Use with (1.60 mm) .062" Thick PCB **–03** = Use with (2.36 mm) .093" Thick PCB		**–L** = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail (Power & Signal) **–T** = Matte tin on contact and tail (power), Gold on contact, Matte tin on tail (Signal)				**–LC** = Locking Clip (Manual placement required)

MPTC

Board Mates: MPSC
Cable Mates: MPCC



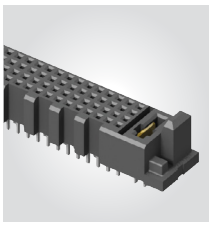


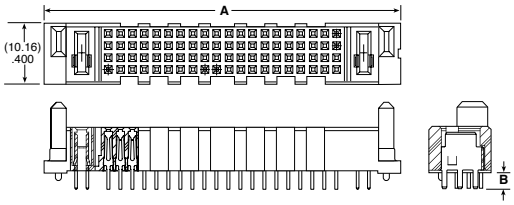
TAIL LENGTH	B
–01	(2.72) .107
–03	(3.51) .138

POWER PINS/ENDS	A			
	16 SIGNAL PINS	24 SIGNAL PINS	40 SIGNAL PINS	80 SIGNAL PINS
–01	(27.44) 1.081	(31.45) 1.238	(39.44) 1.553	(59.44) 2.340
–02	(37.44) 1.474	(41.45) 1.632	(49.44) 1.946	(69.44) 2.734

MPSC

Board Mates: MPTC





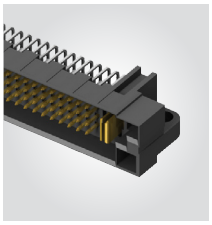
TAIL LENGTH	B
–01	(2.72) .107
–03	(3.52) .139

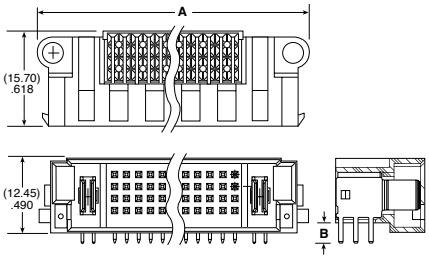
View complete specifications at: **samtec.com?MPTC & samtec.com?MPSC**

SERIES	–	POWER PINS	–	SIGNAL PINS	–	POWER PINS	–	01	–	TAIL LENGTH	–	PLATING OPTION	–	RA	–	OTHER OPTION
MPTC Terminal **MPSC** Socket		Per end **–01** **–02**		**–24** **–80**		Per end **–01** **–02**				**–01** = Use with (1.60 mm) .062" Thick PCB **–03** = Use with (2.36 mm) .093" Thick PCB		**–L** = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail (Power & Signal) **–T** = Matte Tin on contact and tail (power), Gold on contact, Matte tin on tail (Signal)				–SD or –LC is a required callout **–SD** = Screw Down **–LC** = Locking Clip (Manual placement required)

MPTC-RA

Board Mates: MPSC
Cable Mates: MPCC



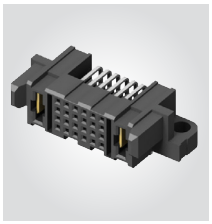


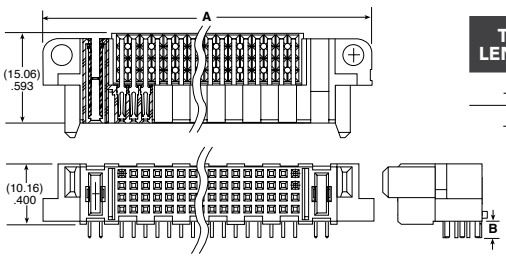
TAIL LENGTH	B
–01	(2.72) .107
–03	(3.51) .138

POWER PINS/ENDS	A	
	24 SIGNAL PINS	80 SIGNAL PINS
–01	(35.25) 1.388	(63.25) 2.490
–02	(45.25) 1.781	(73.25) 2.884

MPSC-RA

Board Mates: MPTC





TAIL LENGTH	B
–01	(2.20) .087
–03	(3.00) .118

POWER PINS/ ENDS	A	
	24 SIGNAL PINS	80 SIGNAL PINS
–01	(36.52) 1.438	(64.52) 2.540
–02	(46.52) 1.831	(74.52) 2.934

View complete specifications at: **samtec.com?MPTC & samtec.com?MPSC**

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

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.