



FLEXIBLE POWER

ULTRA MICRO POWER

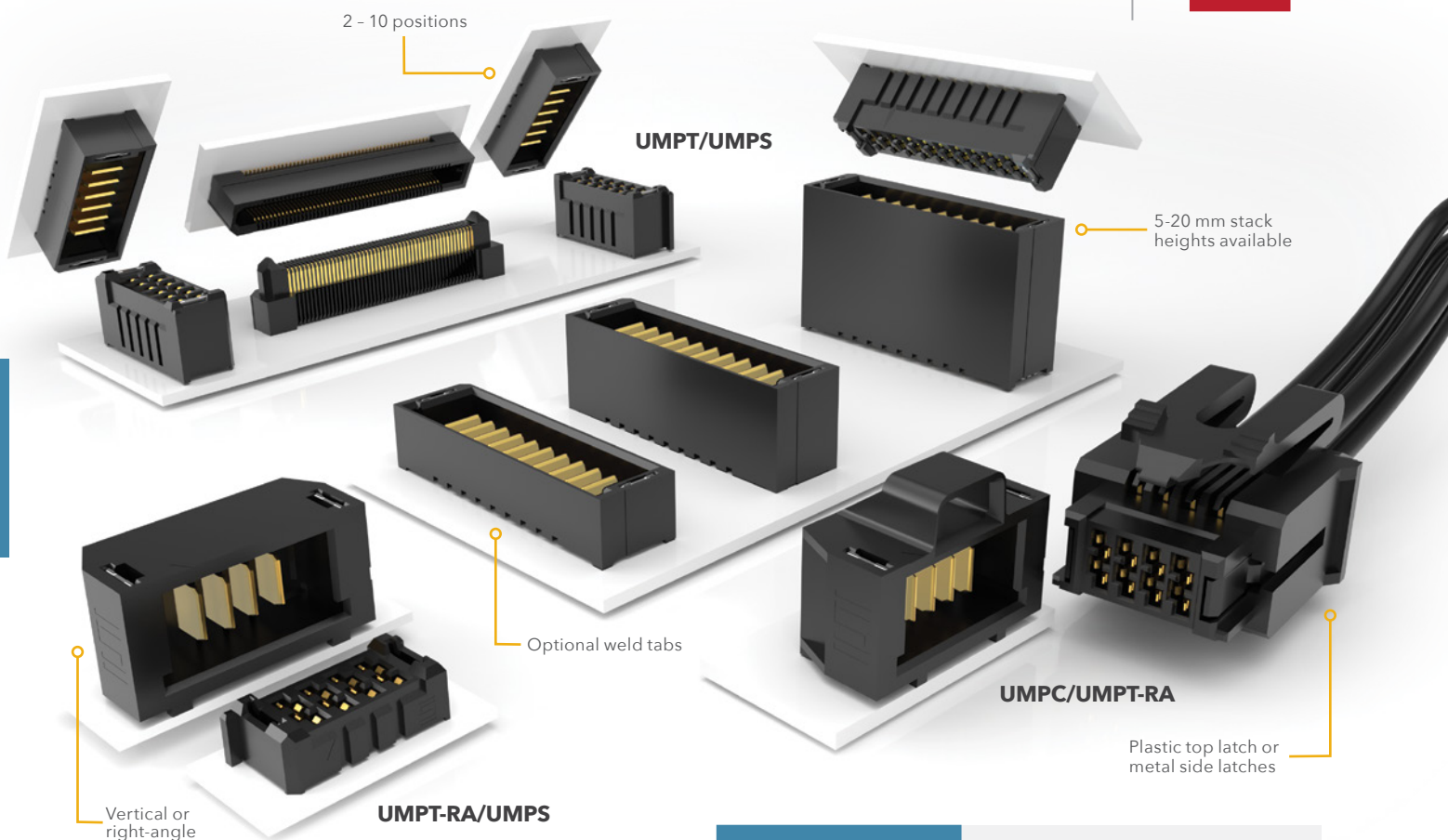
18 A PER BLADE • MICRO 2.00 mm PITCH • DESIGN FLEXIBILITY

2.00 mm PITCH mPOWER®

- Design flexibility as a power-only system or a two-piece system for power/signal applications
- Use with Samtec's high-speed connector systems for a unique power/signal system (see chart)
- Tin or 10 μ " Gold plated power blades; 30 μ " Gold plating available to meet specific regulations
- Latch option for mating with cable assembly
- Standard creepage (2.20 mm) and clearance (1.65 mm)
- Selectively loading contacts achieves customer specific creepage and clearance requirements; contact asp@samtec.com

mPOWER®

MAX
18
A m p s



UMPT shown at
4 total positions



7.60 mm

15.30 mm

POWER/SIGNAL MATED HEIGHTS

SIGNAL CONNECTOR	MATED HEIGHT (mm)													
	5	6	7	8	9	10	11	12	13	14	15	16	18	20
ADM6/ADF6	X													
BTE/BSE	X			X										
BTH/BSH, BTS/BSS	X													
ERM5/ERF5			X		X	X	X	X						
ERM6/ERF6	X													
ERM8/ERF8			X		X	X	X	X	X	X	X	X	X	
LPAM/LPAF	X													
QMS/QFS						X	X	X	X	X		X		
QRM8/QRF8			X		X	X		X		X				
QTE/QSE, QTH/QSH	X						X			X		X		
QTS/QSS	X													
SEAM/SEAF			X	X	X	X	X	X	X	X	X	X		X
SEAM8/SEAF8			X			X								
ST4/SS4	X	X												
ST5/SS5	X													
TEM/SEM		X	X			X								

CURRENT SPECIFICATIONS

CURRENT RATING (PER CONTACT)		
PINS	-T	-G
1	18.3 A	16.2 A
2	14.5 A	14.6 A
3	14.2 A	12.6 A
4	12.9 A	12.3 A
5	12.9 A	N/A
10	N/A	9.4 A

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

CREEPAGE & CLEARANCE

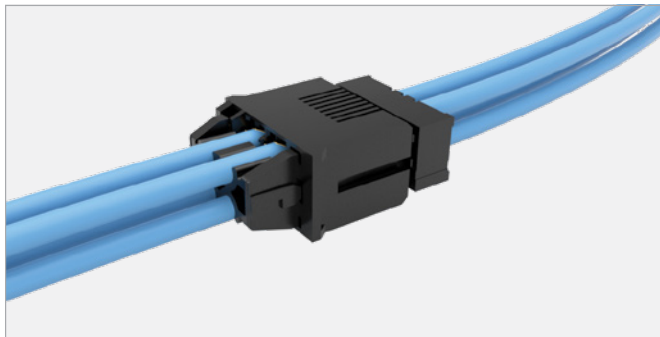
	CREEPAGE	CLEARANCE
UMPT/UMPS	2.20 mm	1.65 mm

Selectively loading contacts achieves customer specific creepage and clearance requirements. Contact asp@samtec.com

POWER SIMULATION

Samtec now offers power simulation that can calculate temperature increase in the connector area. Contact MicroRuggedGroup@samtec.com for more details.

PRODUCT ROADMAP



Cable-to-Cable System

Shown: 4 Position Cable Assemblies with high-temperature Teflon® cable

POSITIONS

2, 3, 4, 5, 6, 7, 8, 9, 10

OPTIONS

Teflon® cable and rugged latching

FLEXIBLE POWER HIGH-POWER

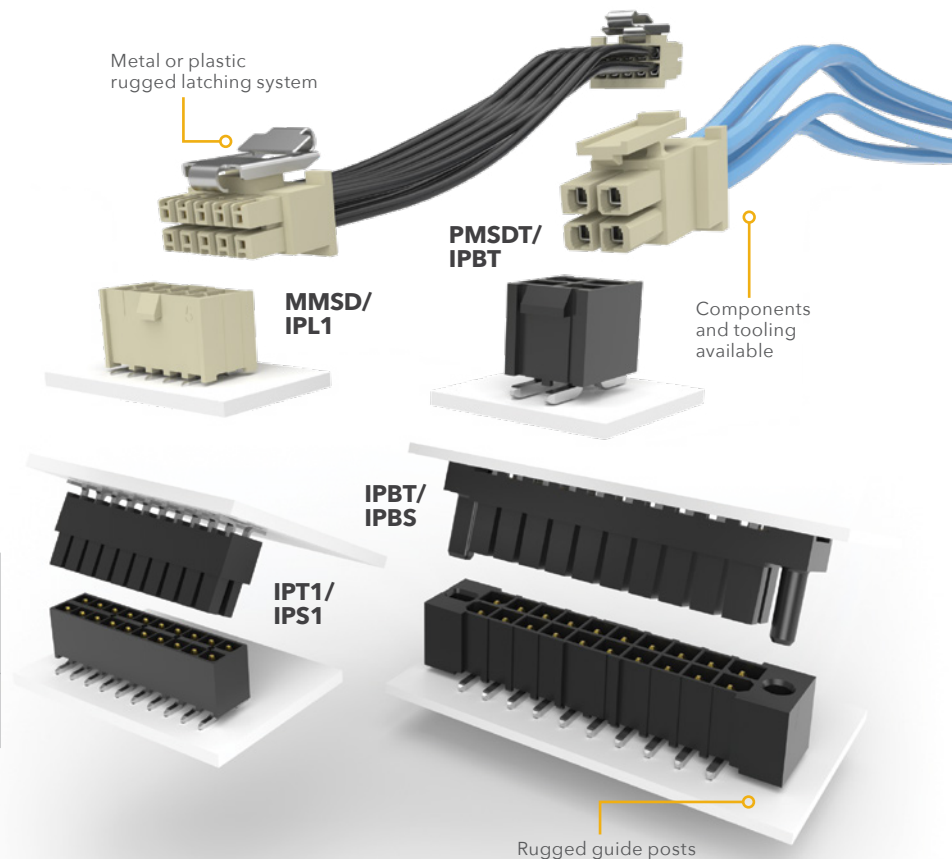
SMALL FORM FACTORS • 10-60 A PER PIN/BLADE • INDIVIDUALLY SHROUDED CONTACTS

MINI MATE® & POWER MATE®

- Individually shrouded contacts for electrical and mechanical protection
- .100" (2.54 mm) and .165" (4.19 mm) pitch
- Discrete wire assemblies with 16-30 AWG PVC or Teflon® wire
- Selectively loading contacts achieves customer specific creepage and clearance requirements; contact asp@samtec.com

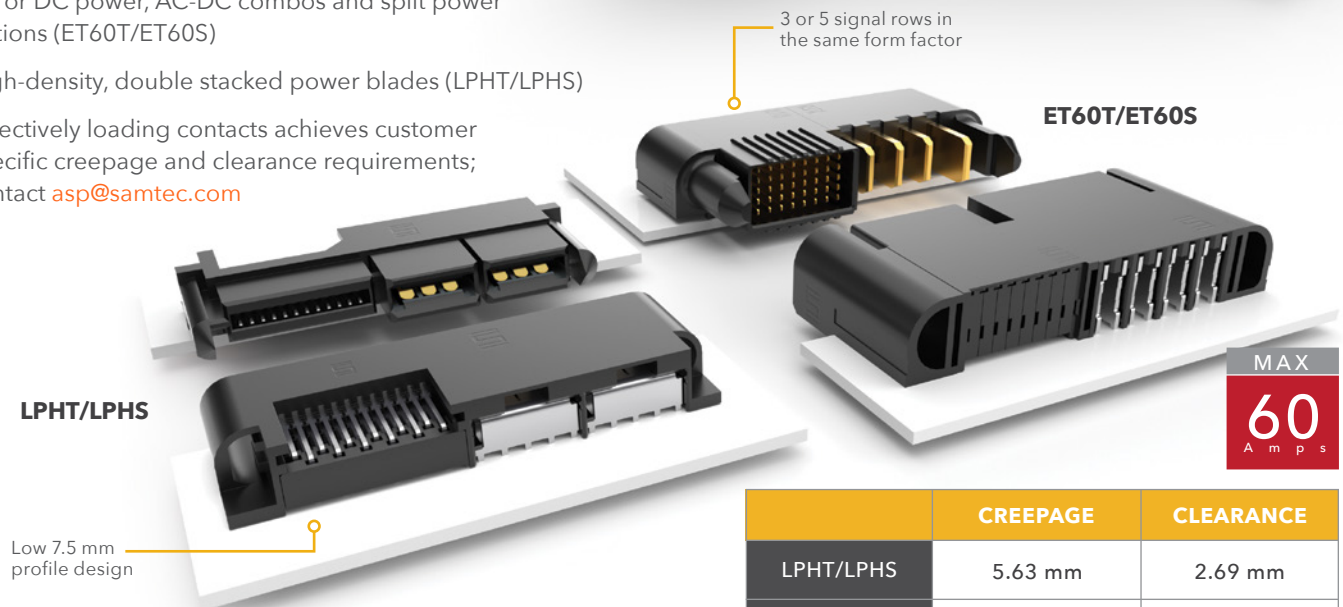
MAX
10.3
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	CREEPAGE	CLEARANCE
IPT1/IPS1 MMSS(T)/MMSD(T)	2.55 mm	1.91 mm
IPBT/IPBS PMSS(T)/PMSD(T)	4.27 mm	3.05 mm



EXTREME POWER

- AC or DC power, AC-DC combos and split power options (ET60T/ET60S)
- High-density, double stacked power blades (LPHT/LPHS)
- Selectively loading contacts achieves customer specific creepage and clearance requirements; contact asp@samtec.com



	CREEPAGE	CLEARANCE
LPHT/LPHS	5.63 mm	2.69 mm
ET60T/ET60S	3.02 mm	1.87 mm

POWERSTRIP™ SYSTEM

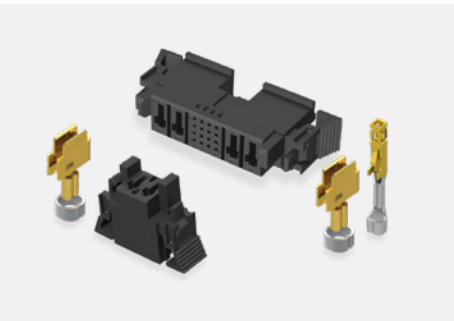
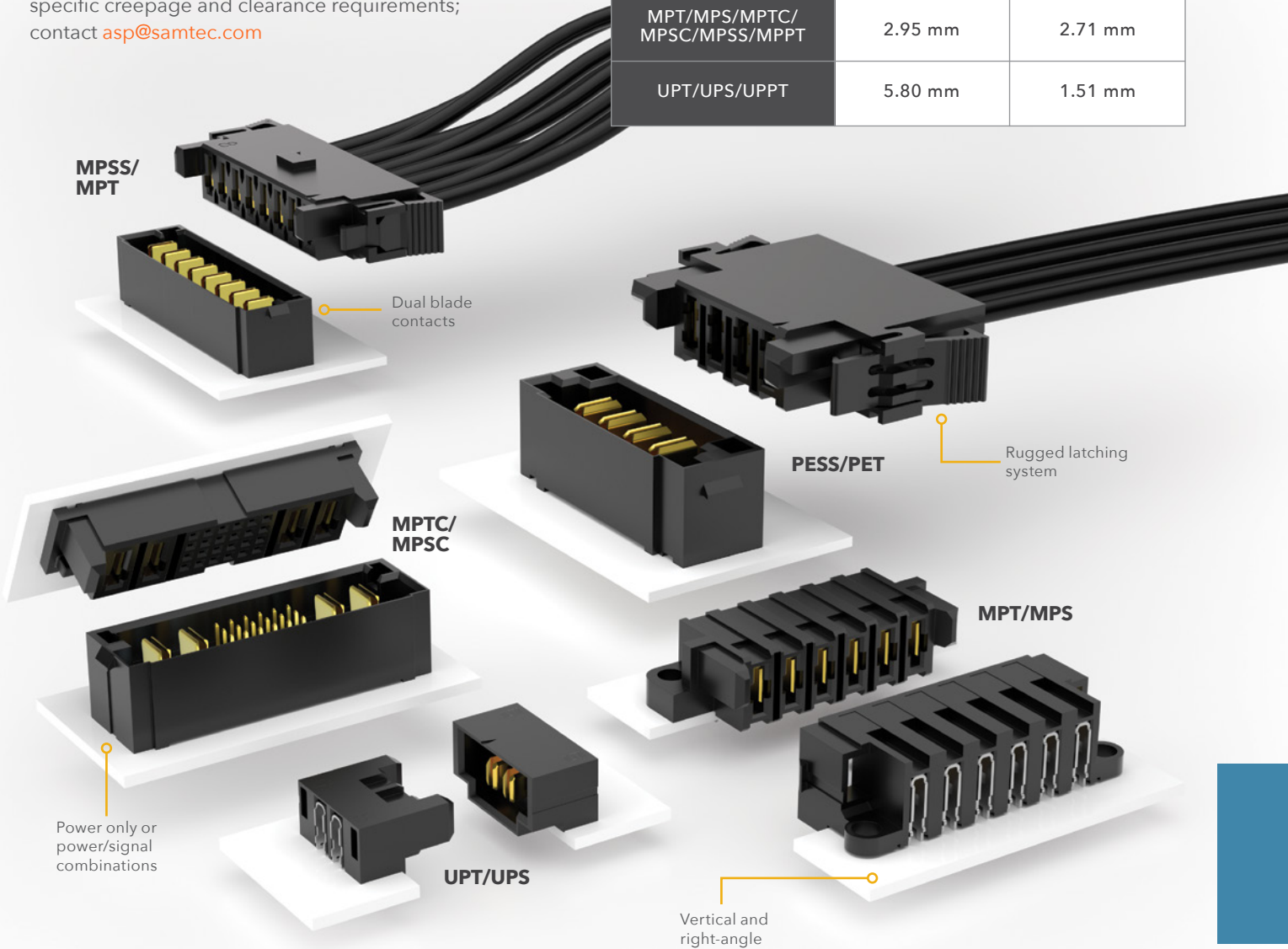
- 23.5 A/blade to 58.7 A/blade (1 blade powered)
- 5.00 mm and 6.35 mm pitch
- Discrete wire assemblies with 10-16 AWG wire
- Selectively loading contacts achieves customer specific creepage and clearance requirements; contact asp@samtec.com

MAX

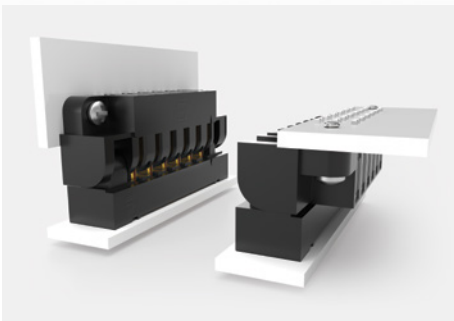
60

A m p s

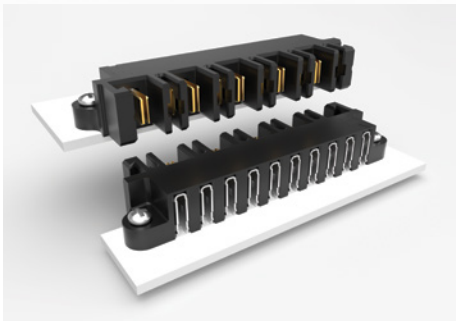
	CREEPAGE	CLEARANCE
PET/PES/PETC/ PESC/PESS	3.66 mm	3.31 mm
MPT/MPS/MPTC/ MPSC/MPSS/MPPT	2.95 mm	2.71 mm
UPT/UPS/UPPT	5.80 mm	1.51 mm



Discrete wire components (IMS5,IMSC5/CC46,CC81; IPS6/CC10) and tooling available: samtec.com/tooling



"Hinging" for 90° mating radius, ideal for blind mating (FMPT/FMPS)



Hermaphroditic power system with rugged screw downs (MPPT, UPPT)



samtec
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