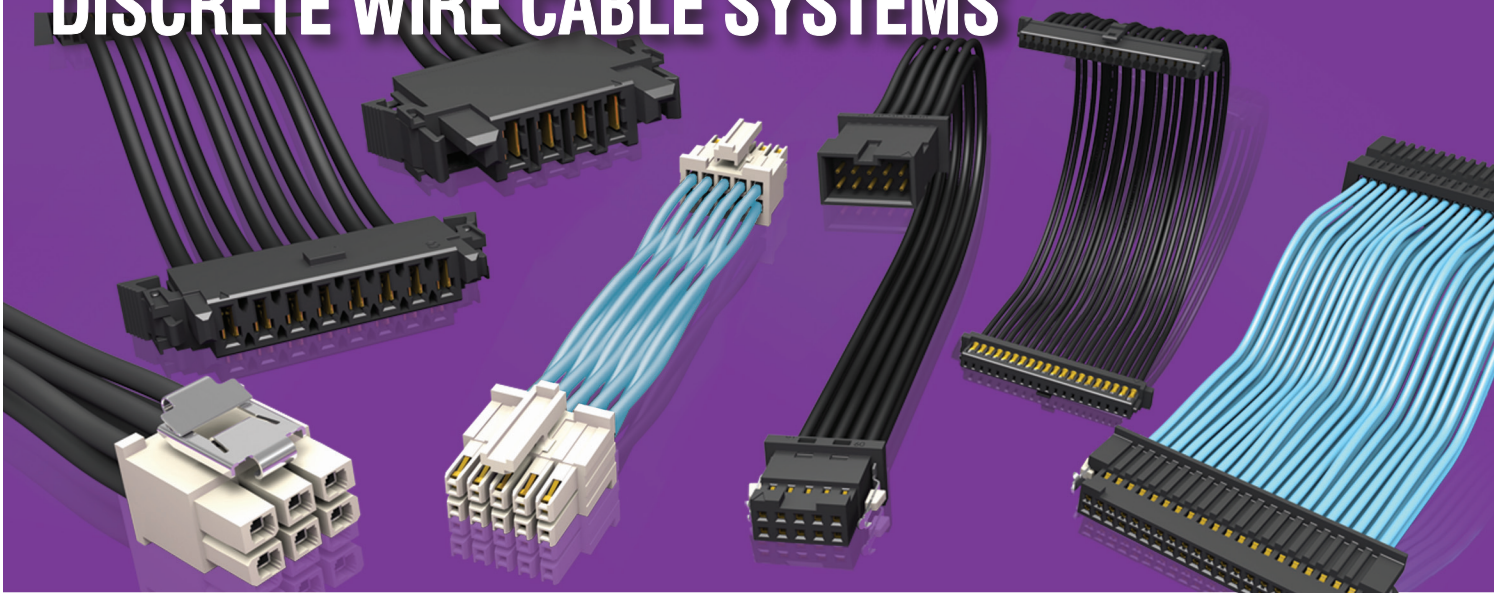


DISCRETE WIRE CABLE SYSTEMS



Samtec's Discrete Wire cable products include both individual components and cable assemblies with your choice of traditional PVC cable or Teflon®* cable. Teflon® cable jacketing is environmentally friendly and can handle high operating temperatures. Insulators and contacts are available for crimp-and-poke applications for manufacturing and design flexibility. Fully terminated cable assemblies are also available as standard products. Assemblies include connectors on 1mm (.0394"), .050" (1,27mm), 2mm (.079"), .100" (2,54mm), .165" (4,19mm), .200" (5mm), and .250" (6,35mm) pitch.

Power Mate™

Power Mate™ Discrete Wire assemblies contain individually shrouded crimp contacts on .165" (4,19mm) pitch with 16 AWG to 24 AWG wire and are rated at 7 Amps at an ambient temperature of 75°C.

Power Mate™ is offered in PVC ([PMSD/PMSS Series](#)) or Teflon® cable ([PMSDT/PMSSST Series](#)) and is available with standard power or high power contacts in single or double row with up to 15 I/Os per row.

PowerStrip™

Samtec's PowerStrip™25 cable assembly [MPSS Series](#) and PowerStrip™35 cable assembly [PESS Series](#) are available with dual leaf blade contacts, positive latching system, and up to eight positions. The MPSS Series is rated at 11.7 Amps at 75°C and is available with 16 AWG cable. The PESS Series is rated at 28.9 Amps per contact at 75°C and is available with 10 or 12 AWG wire.

Mini Mate®

Samtec's Mini Mate® Series is a Discrete Wire cable assembly on .100" (2,54mm) pitch with 20 AWG to 30 AWG wire. It is rated up to 5.9 amps per contact at an ambient temperature of 60°C.

Mini Mate® is offered in PVC ([MMSD/MMSS/MMTD/MMTS Series](#)) or Teflon® cable ([MMSDT/MMSST/ MMTDT/MMTST Series](#)) in single or double row with up to 25 I/Os per row.

Mini Mate® products are also capable of wire-to-wire mating and come in a variety of standard and custom pinouts.

Tiger Eye™ Systems

Samtec's Tiger Eye™ Discrete Wire cable assembly features the high reliability, multi-finger, precision stamped

Tiger Eye™ contact. This crimp-and-poke design is ideal for rugged or high cycle applications. It is a cost effective alternative to traditional Discrete Wire, solder-cup assemblies. A screw down option will be coming soon.

Tiger Eye™ Cable Assemblies are available in single row ([SFSS/TFSS Series](#)) or double row ([SFSD/TFSD Series](#)) with PVC cable and single row ([SFSST/TFSST Series](#)) or double row ([SFSDT/TFSDT Series](#)) with Teflon® cable. These series are on a .050" (1,27mm) pitch in 28 AWG or 30 AWG wire with up to 50 I/Os per row.

The SFSD Series is available with metal squeeze latches providing increased retention for more rugged environments and a choice of sockets or terminals to mate with Samtec's popular [TFM/SFM Series](#).

Samtec's [S2SD/T2SD Series](#) is a dual row, 2mm (.0787") Discrete Wire cable assembly that also utilizes the three-finger, BeCu Tiger Eye™ contact system. The S2SD/T2SD Series is available up to 60 I/Os with a choice of PVC or Teflon® cable ([S2SDT/T2SDT Series](#)) in 24 AWG to 30 AWG wire.














Samtec's 2mm (.0787") pitch assemblies are shrouded, polarized, and keyed for rugged applications. Metal retention latches are also available for higher withdrawal forces.

1mm Pitch Micro System

Samtec's 1mm (.0394") single row dual beam [SISS Series](#) Cable Assembly and [T1M Series](#) Terminal is available with 28 and 30 AWG wire in vertical or right angle configurations with a variety of contact, plating, and design configurations.



Discrete Wire Specifications

Description	Series	Rows	Specifications	
			Current rating per pin at 6 pins	
Power Mate™ Socket PVC Cable Assembly	PMSS	Single	Pitch: 4,19mm (.165") Wire: 16 - 24 AWG Contacts: Up to 30 I/Os Current Rating: 5.5A per pin	
	PMSD	Double		
Power Mate™ Socket Teflon® Cable Assembly	PMSST	Single	Pitch: 4,19mm (.165") Wire: 16 - 24 AWG Contacts: Up to 30 I/Os Current Rating: 7.0A per pin	
	PMSDT	Double		
Mini Mate™ Socket PVC Cable Assembly	MMSS	Single	Pitch: .100" (2,54mm) Wire: 20 AWG Contacts: Up to 50 I/Os Current Rating: 3.88A per pin	
	MMSD	Double		
Mini Mate™ Socket Teflon® Cable Assembly	MMSST	Single	Pitch: .100" (2,54mm) Wire: 24 AWG Contacts: Up to 50 I/Os Current Rating: 2.5A per pin	
	MMSDT	Double		
Tiger Eye™ Socket PVC Cable Assembly	SFSS	Single	Pitch: .050" (1,27mm) Wire: 28 AWG Contacts: Up to 100 I/Os Current Rating: 1.9A per pin	
	SFSD	Double		
Tiger Eye™ Socket Teflon® Cable Assembly	SFSSST	Single	Pitch: .050" (1,27mm) Wire: 28 AWG Contacts: Up to 100 I/Os Current Rating: 2.0A per pin	
	SFSDT	Double		
Tiger Eye™ Terminal PVC Cable Assembly	TFSS	Single	Pitch: .050" (1,27mm) Wire: 28 AWG Contacts: Up to 100 I/Os Current Rating: 1.9A per pin	
	TFSD	Double		
Tiger Eye™ Terminal Teflon® Cable Assembly	TFSSST	Single	Pitch: .050" (1,27mm) Wire: 28 AWG Contacts: Up to 100 I/Os Current Rating: 2.0A per pin	
	TFSDT	Double		
Tiger Eye™ Socket PVC Cable Assembly	S2SD	Double	Pitch: 2mm (.0787") Wire: 24 AWG Contacts: Up to 100 I/Os Current Rating: 2.6A per pin	
Tiger Eye™ Terminal PVC Cable Assembly	T2SD	Double	Pitch: 2mm (.0787") Wire: 24 AWG Contacts: Up to 100 I/Os Current Rating: 1.9A per pin	
Tiger Eye™ Socket Teflon® Cable Assembly	S2SDT	Double	Pitch: 2mm (.0787") Wire: 24-30 AWG Contacts: Up to 100 I/Os Current Rating: No data available	
Tiger Eye™ Terminal Teflon® Cable Assembly	T2SDT	Double	Pitch: 2mm (.0787") Wire: 24-30 AWG Contacts: Up to 100 I/Os Current Rating: No data available	
Dual Beam Socket Assembly	S1SS	Single	Pitch: 1mm (.0394") Wire: 28 AWG Contacts: Up to 20 I/O's Current Rating: 1.3A	
Dual Beam Terminal Assembly	T1M	Double	Pitch: 1mm (.0394") Wire: 28 AWG Contacts: Up to 20 I/O's Current Rating: 1.3A	

CAT-HT Hand Tool



MINI MATE® HAND TOOLS

Contact	Pitch	AWG Range	Insulator Diameter Range	Hand Tool Part Number	Housing	Assembly
CC79R	.100"	20 - 24	.053" (1,35mm) -- .072" (1,83mm)	CAT-HT-179-2024-11	IPD1	MMSD/MMSDT/ MMSS/MMSST
CC79L						
CC79R	.100"	26 - 30	.029" (0,74mm) -- .054" (1,37mm)	CAT-HT-179-2630-11	IPD1	MMSD/MMSDT/ MMSS/MMSST
CC79L						
T1M74-R	.100"	20 - 24	.053" (1,35mm) -- .072" (1,83mm)	CAT-HT-174-2024-11	IPM1	MMTD/MMTDT/ MMTS/MMTST
T1M74-L						
T1M74-R	.100"	26 - 30	.029" (0,74mm) -- .054" (1,37mm)	CAT-HT-174-2630-11	IPM1	MMTD/MMTDT/ MMTS/MMTST
T1M74-L						



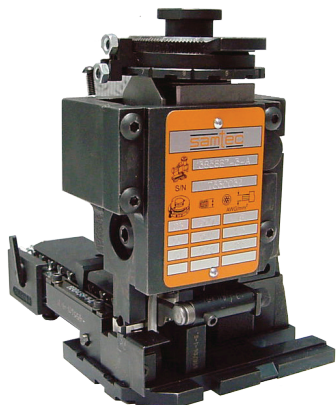
POWER MATE® HAND TOOLS

Contact	Pitch	AWG Range	Insulator Diameter Range	Hand Tool Part Number	Housing	Assembly
CC69R	.165"	16 - 20	.097" (2,46mm) -- .126" (3,20mm)	CAT-HT-169-1620-11	IPBD	PMSD/PMSDT/ PMSS/PMSST
CC69L						
CC69R	.165"	20 - 24	.053" (1,35mm) -- .072" (1,83mm)	CAT-HT-169-2024-11	IPBD	PMSD/PMSDT/ PMSS/PMSST
CC69L						



TIGER EYE™ HAND TOOLS

Contact	Pitch	AWG Range	Insulator Diameter Range	Hand Tool Part Number	Housing	Assembly
CC03R	.050"	28 - 30	.029" (.74mm) -- .038" (.97mm)	CAT-HT-203-2832-11	ISDF	SFSD/SFSDT
CC03L						
T1M44-L	.050"	28 - 30	.029" (.74mm) -- .038" (.97mm)	CAT-HT-203-2832-11	TSDF	TFSD/TFSDT
T1M44-R						
CC81R	2mm	24 - 30	.029" (.74mm) -- .059" (1,50mm)	CAT-HT-281-2430-11	ISD2	S2SD/S2SDT
CC81L						
T1M82-R	2mm	24 - 30	.033" (.84mm) -- .059" (1,50mm)	CAT-HT-182-2430-11	ITD2	T2SD/T2SDT
T1M82-L						



Mini Applicator Part Number Detail

TR = 30mm stroke length, with pre-feed terminal loading. Compatible with AMP K and most Asian presses. (AMP K presses are still the most common in the world, and will be for a long time. They have been replaced by the AMP G press.)

FR = 40mm stroke length, with pre-feed terminal loading. Compatible with Samtec CAT-3000 and AMP G presses. (AMP G presses are probably the 2nd most common in the world.)

FS = 40mm stroke length, with post-feed terminal loading. Compatible with AMP T and most fully-automatic presses (on lead-makers and harness-makers.)

MINI MATE® MINI APPLICATORS

Contact	AWG Range	Insulator Diameter Range	Applicator Part Number	Stroke Per Feed	Housing	Assembly
CC79R CC79L	20 – 24	.053" (1,35mm) -- .072" (1,83mm)	CAT-MA-179-2024- TR -01 CAT-MA-179-2024- FR -01 CAT-MA-179-2024- FS -01	30mm 40mm 40mm	IPD1	MMSD/MMSS MMSDT/ MMSST
CC79R CC79L	26 – 30	.029" (0,74mm) -- .054" (1,37mm)	CAT-MA-179-2630- TR -01 CAT-MA-179-2630- FR -01 CAT-MA-179-2630- FS -01	30mm 40mm 40mm	IPD1	MMSD/MMSS MMSDT/ MMSST

POWER MATE™ APPLICATORS

Contact	AWG Range	Insulator Diameter Range	Applicator Part Number	Stroke Per Feed	Housing	Assembly
CC69R CC69L	16 – 20	.097" (2,46mm) -- .126" (3,20mm)	CAT-MA-169-1620- TR -01 CAT-MA-169-1620- FR -01 CAT-MA-169-1620- FS -01	30mm 40mm 40mm	IPBD	PMSSD/PMSS PMSSDT/ PMSSST
CC69R CC69L	20 – 24	.053" (1,35mm) – .072" (1,83mm)	CAT-MA-169-2024- TR -01 CAT-MA-169-2024- FR -01 CAT-MA-169-2024- FS -01	30mm 40mm 40mm	IPBD	PMSSD/PMSS PMSSDT/ PMSSST

TIGER EYE™ MICRO APPLICATORS

Contact	AWG Range	Insulator Diameter Range	Applicator Part Number	Stroke Per Feed	Housing	Assembly
CC03R CC03L	28-30	.029" (.74mm) -- .038" (.97mm)	CAT-MA-203-2832- TR -01 CAT-MA-203-2832- FR -01 CAT-MA-203-2832- FS -01	30mm 40mm 40mm	ISDF	SFSSD/TFSS SFSSD/TFSD SFSST/ TFSST SFSST/ TFSST

DUAL BEAM SYSTEM

Contact	AWG Range	Insulator Diameter Range	Applicator Part Number	Stroke Per Feed	Housing	Assembly
CC309	28-30	.032" (.81mm) -- .035" (.89mm)	In Development Estimated Availability March 2012	TBD	S1SS-__ (# of positions)	S1SS