



(2,54mm) .100"

MMSD, MMSDT, MMSS, MMSST, IPD1 SERIES

# DISCRETE WIRE CABLE ASSEMBLY

Mates with: IPL1  
(Does not mate with IPT1)

## SPECIFICATIONS

For complete specifications see [www.samtec.com?MMSD](http://www.samtec.com?MMSD), [www.samtec.com?MMSDT](http://www.samtec.com?MMSDT), [www.samtec.com?MMSS](http://www.samtec.com?MMSS), [www.samtec.com?MMSST](http://www.samtec.com?MMSST) or [www.samtec.com?IPD1](http://www.samtec.com?IPD1)

**Insulator Material:** Nylon 66  
**Contact Material:** Phosphor Bronze  
**Plating:** Au or Sn over 50µ" (1,27µm) Ni  
**Operating Temp Range:** -55°C to +105°C (PVC)  
-55°C to +125°C (\*Teflon®)



**Voltage Rating:** 22 to 30 AWG = 300 VAC/424 VDC  
20 AWG = 600 VAC/848 VDC (PVC)  
**Wire:** 20 to 30 AWG  
**RoHS Compliant:** Yes

CURRENT RATING	
AMBIENT TEMP	MMSD/IPL1
20°C	7.4A
40°C	6.5A
60°C	5.9A
95°C	3.8A

6 POSITIONS (2x3)  
20 AWG POWERED

## APPLICATION SPECIFIC OPTION

- Other color coded cables (\*Teflon® N/A).
  - Other sizes/pin counts.
  - With or without Plug Polarization (omit pin 1).
  - Other Gold plating options.
  - Guide post
- Call Samtec.

## APPLICATION

-24C 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
ETC	REPEAT

**Note:** For wiring option information refer to drawing on web.

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

TYPE	PINS PER ROW	WIRE GAUGE	PLATING OPTION	ASSEMBLY LENGTH	END OPTION	K	LATCH OPTION
MMSD = Double Row PVC Cable	-02, -05, -10,	-20 -22 -24	-L = 10µ" (0,25µm) Gold on contact, Tin on tail	- "XX.XX" = Assembly Length in Inches (82,55mm) 03.25" min.	-S = Single End  -D = Double End (Latch Required)	-K = Keyed Polarization	
MMSDT = Double Row *Teflon® Cable (24, 28 & 30 AWG only)	-15, -16, -20, -25	-24C = Color Coded Cable  -26 -28 -30					
MMSS = Single Row PVC Cable							
MMSST = Single Row *Teflon® Cable (24, 28 & 30 AWG only)							

No. of positions x (2,54) .100  
25 + (1,40) .055 01

(8,89)  
.350  
(2,54)  
.100

(12,83)  
.505

(12,83)  
.505

(7,24)  
.285

(17,93)  
.706

(1,57)  
.062  
DIA

(1,91)  
.075

(3,81)  
.150

(3,17) .1250

Assembly Length ± (3,18)  
.125

-D-K-MUS

-M & -MXX (MMSD/MMSDT)

-D-K-LUS

**RUGGEDIZED**  
by  
**SAMTEC**

- Individually shrouded contacts
- Metal or plastic latches

-M = Single Ended, Metal Latches (Leave blank for plastic)  
Double Ended (-D) Crossed requires MMSD/MMSDT  
-LUS = Plastic Latch up, straight  
-LDS = Plastic Latch down, straight  
-LUX = Plastic Latch up, crossed  
-LDX = Plastic Latch down, crossed  
-MUS = Metal Latch up, straight  
-MDS = Metal Latch down, straight  
-MUX = Metal Latch up, crossed  
-MDX = Metal Latch down, crossed

TYPE	POSITIONS PER ROW	ROW OPTION	K	LATCH OPTION	TYPE	WIRE GAUGE	01	PLATING OPTION
IPD1 = Body, Loose	-02, -05, -10, -15, -16, -20, -25	-S = Single Row  -D = Double Row	-K = Keyed Polarization	-M = Metal Latch (Leave blank for plastic latch)	CC79L = Contact, Loose  CC79R = Contact, Full Reel (15,000 Parts per Reel)	-2630 = 26 to 30 AWG  -2024 = 20 to 24 AWG		-L = 10µ" (0,25µm) Gold on contact, Tin on tail

(12,83)  
.505

(7,24)  
.285

(17,93)  
.706

(1,57)  
.062  
DIA

(1,91)  
.075

(3,81)  
.150

(3,17) .1250

**HAND TOOLS**  
20 to 24 AWG:  
CAT-HT-179-2024-11  
26 to 30 AWG:  
CAT-HT-179-2630-11

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC SILICON VALLEY • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89486-0  
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 8890337 SAMTEC NORDIC/BALTIK • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292 SAMTEC ISRAEL • Tel: 972-3-7526600  
SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-61103766 SAMTEC TAIWAN • Tel: 886-2-2735-6109  
Downloaded from Elcodis.com electro SAMTEC HONG KONG • Tel: 852-2600-9858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9512 7747 SAMTEC SOUTH AFRICA • Tel: 27 11 452 8112