

HCMD-10-S-03.00-01

(2.54 mm) .100"

# IDC SOCKET & TERMINAL CABLE

## Mates with:

TSW, MTSW, TST, EW,  
BST, ZST, MTLW, TSM,  
EJH-02 (HCSD only)

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?HCSD](http://www.samtec.com?HCSD) or [www.samtec.com?HCSS](http://www.samtec.com?HCSS)

### HCSD, HCSS

**Insulator Material:**

Black Liquid Crystal Polymer

**Flammability Rating:**

UL 94V-O

**Insulation Resistance:**

5000 MΩ

**Temperature Range:**

-20°C to +105°C

(Rainbow Cable)

-40°C to +105°C (Gray Cable)

**Withstanding Voltage:**

1000 VRMS @ 60 Hz

**Contact:** Phosphor Bronze

**Plating:** 10μ" (0.25 μm) Au on

contact area, 150μ" (3.81 μm)

Sn on balance over

50μ" (1.27 μm) Ni.

**Contact Resistance:**

10 mΩ

**Lead Size Range:**

.024" (0.61 mm) SQ to

.026" (0.66 mm) SQ

**Lead Insertion Depth:**

.185" (4.70 mm) to

.250" (6.35 mm)

**Insertion Force:**

6 oz (1.67 N) average with

.025" (0.64 mm) SQ probe

**Withdrawal Force:**

3 oz (0.83 N) average with

.025" (0.64 mm) SQ probe

**Wire:** 28 AWG 7/36 stranded

Tinned Copper

**RoHS Compliant:** Yes

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?HCMD](http://www.samtec.com?HCMD) or [www.samtec.com?HCSS](http://www.samtec.com?HCSS)

### HCMD, HCMS

**Insulator Material:**

Black Liquid Crystal Polymer

**Flammability Rating:**

UL 94V-O

**Insulation Resistance:**

5000 MΩ

**Temperature Range:**

-20°C to +105°C

(Rainbow Cable)

-40°C to +105°C (Gray Cable)

**Withstanding Voltage:**

1000 VRMS @ 60 Hz

**Terminal:** Phosphor Bronze

**Plating:**

Sn over 50μ" (1.27 μm) Ni

**Wire:** 28 AWG 7/36 stranded

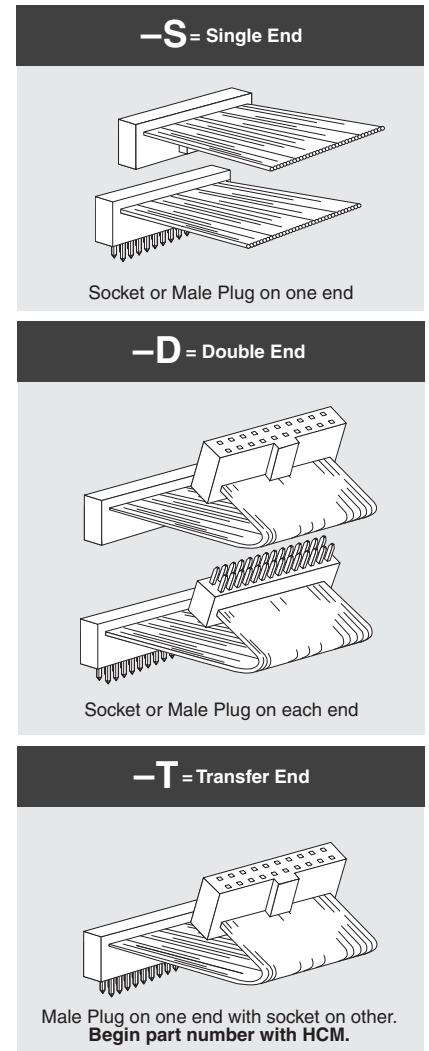
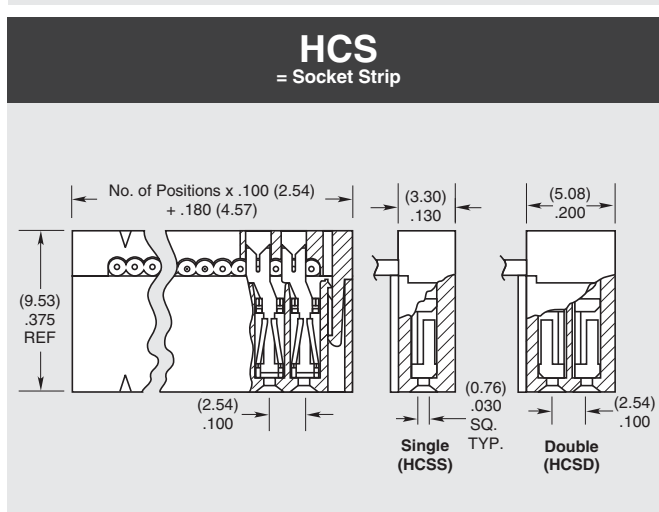
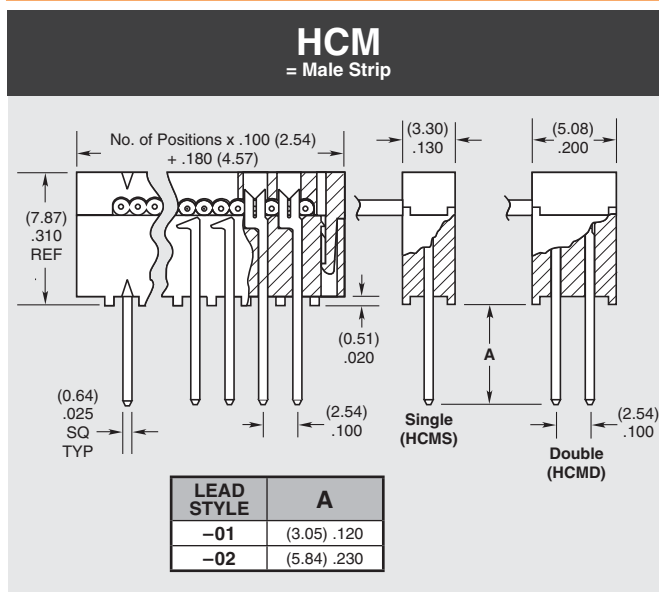
Tinned Copper

**RoHS Compliant:** Yes

**Note:**

IDC assemblies are non-standard, non-returnable.

TYPE STRIP	ROW OPTION	NO. PINS PER ROW	END ASSEMBLY	ASSEMBLED LENGTH
	<b>S</b> = Single	-05, -08, -10, -12, -13, -15, -17, -20, -25, -36		-“XX.XX” = Assembled Length
	<b>D</b> = Double (Color coded cable N/A for 36 pins/row. See -G option.)			Assembled Length in INCHES (±1/8") 2 inches minimum



HCSS-15-S-03.00-01-G

HCSD-10-S-03.00-01-T-G

## HCMD, HCMS, HCSD, HCSS SERIES

### LEAD STYLE

**-01**  
= HCSS/HCSD or  
(3.05 mm) .120" tail for  
HCMS/HCMD

**-02**  
= (5.84 mm) .230" tail  
HCMS/HCMD only

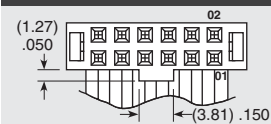
### PLATING OPTION

**-S**  
= 10 $\mu$ " (0.25  $\mu$ m) Gold on contact area or tail,  
Tin on balance  
(Standard on HCSS & HCSD. Leave blank)

**-T**  
= Tin  
(Standard on HCMS & HCMD. Leave blank)

### NOTCH POLARIZATION

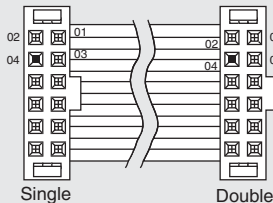
**-N** = Notch Polarization



Required for HCSS and HCSD.  
(Not available on HCMS or HCMD,  
unless Transfer, then only the  
socket is polarized.)

### OTHER OPTIONS

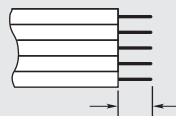
### **-P "XX"** = Position Polarization



Specify "XX" as position. For Double  
the same position will be polarized  
on both ends. (Not available on  
HCM, unless Transfer, then only the  
socket is polarized)

### **-ST "X"** = Stripped & Tinned

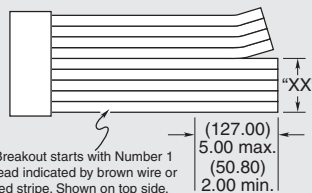
Specify Suffix from table. All  
dimensions are  $\pm 1/16$ " (1.59 mm). Not  
available in 28 positions and higher.



<b>-ST8</b>	1/8" (3.18)
<b>-ST4</b>	1/4" (6.35)
<b>-ST2</b>	1/2" (12.70)
<b>-ST3</b>	3/8" (9.53)

### **-B "XX"** = Breakout

Specify "XX" as number of  
conductors to be broken out.

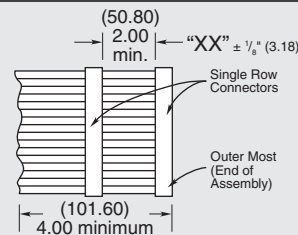


Breakout starts with Number 1  
lead indicated by brown wire or  
red stripe. Shown on top side.

### **-RW** = Reversed Wiring

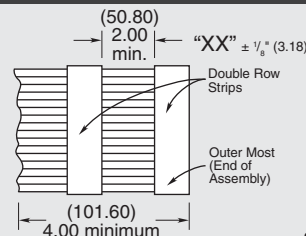
#1 wire opposite position #1

### **-S "XX"** = Daisy Chain Single



When mating double row connector  
with two single row connectors, the  
outer most single will be connected  
to Conductor #1 and the inside single  
to Conductor #2.

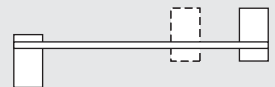
### **-D "XX"** = Daisy Chain, Double



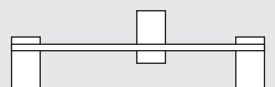
### **-W "XX"** = Wiring Reversed Daisy Chain, Single

Same as -S "XX" except outer strip  
connected to conductor #2 and inside  
strip connected to conductor #1.

### **-R** = Reversed



### **-M** = Middle Reversed



Requires -SXX, -WXX or -DXX

### **-O** = Outside Reversed



Requires -SXX, -WXX or -DXX

### **-G** = Gray Cable

Standard cable is color coded. Specify  
-G for Gray cable with one red edge.

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[HCMD-08-T-02.00-02-RW](#)