

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:

10 μ" (0.25 μm) Au on

contact area, 150 μ" (3.81 μm)

Sn on balance over

50 μ" (1.27 μm) Ni.

#### 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)

#### 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?HCMS](http://www.samtec.com?HCMS)

### 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 50 μ" (1.27 μm) Ni

#### Wire:

28 AWG 7/36 stranded

Tinned Copper

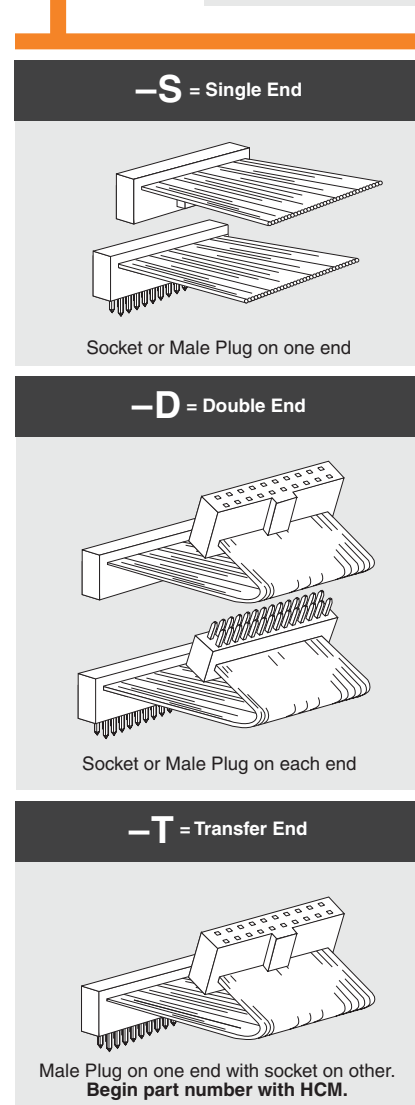
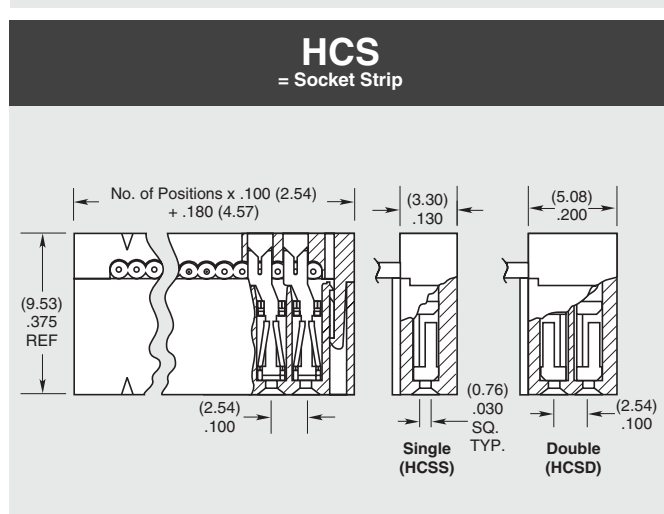
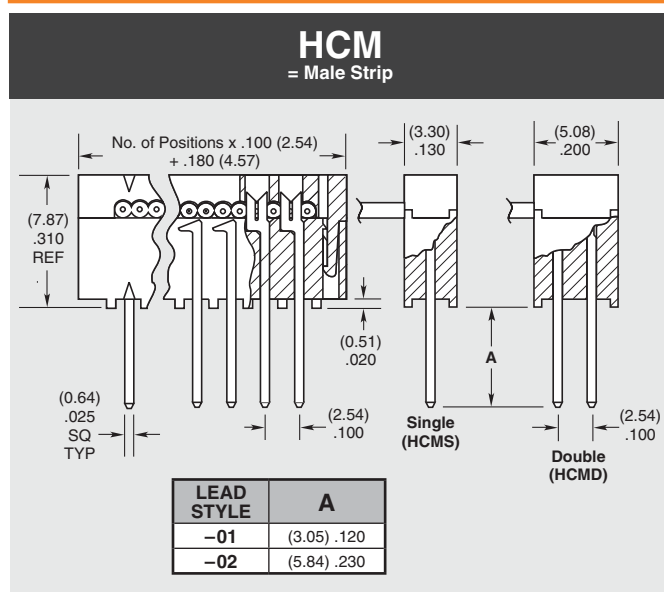
#### RoHS Compliant:

Yes

#### Note:

IDC assemblies are non-standard, non-returnable.

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



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[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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

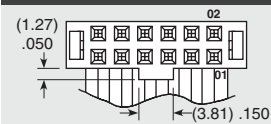
### PLATING OPTION

**-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

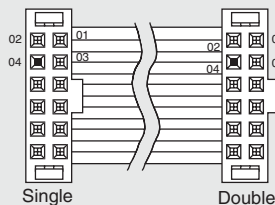
**-N** = Notch Polarization



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

### OTHER OPTIONS

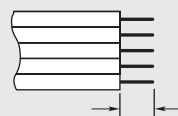
**-P "XX"**  
= Position Polarization



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

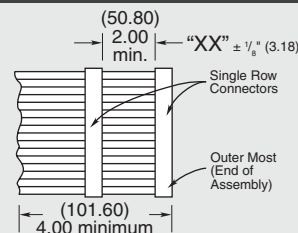
Specify Suffix from table. All  
dimensions are  $\pm 1/16$ " (1.59 mm). Not  
available in 28 positions and higher.



|             |              |
|-------------|--------------|
| <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)  |

3

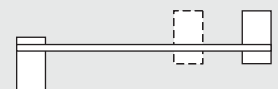
**-S "XX"**  
= Daisy Chain Single



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.

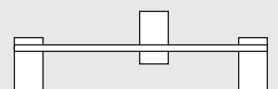
6

**-R**  
= Reversed



7

**-M**  
= Middle Reversed



Requires -SXX, -WXX or -DXX

7

**-O**  
= Outside Reversed



Requires -SXX, -WXX or -DXX

7

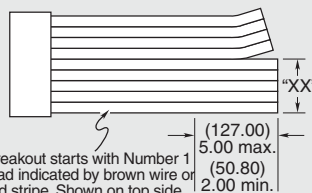
**-G**  
= Gray Cable

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

2

**-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.

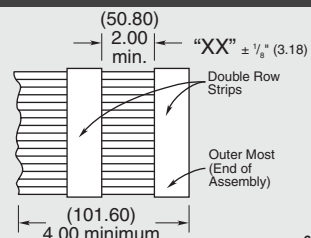
4

**-RW**  
= Reversed Wiring

#1 wire opposite position #1

5

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



6

**-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.

6

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