

HCMD-10-S-03.00-01-G

(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:

-55°C to +80°C

#### Withstanding Voltage:

1000 VRMS @ 60 Hz

Terminal: Phosphor Bronze

#### Plating:

Sn over 50μ" (1,27 μm) Ni

Wire: 28 AWG 7/36 stranded

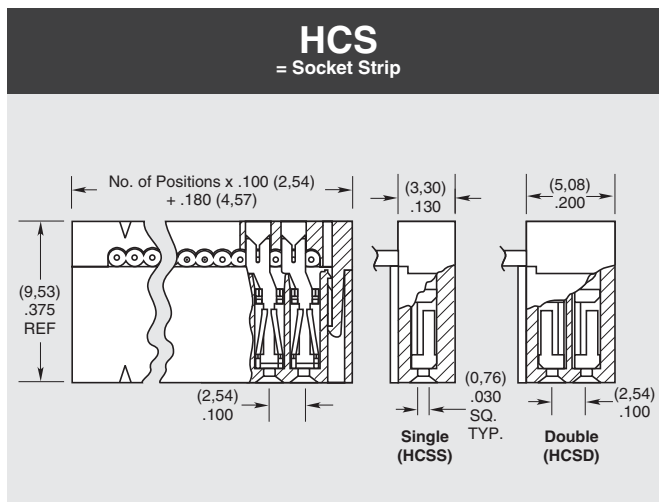
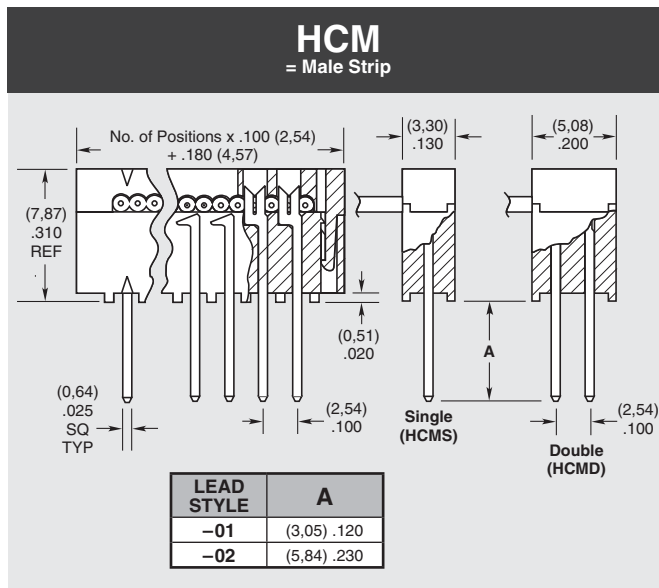
Tinned Copper

RoHS Compliant: Yes

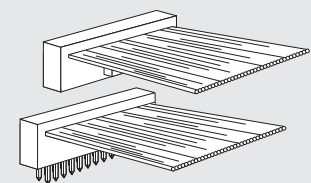
#### Note:

IDC assemblies are non-standard, non-returnable.

| TYPE STRIP | ROW OPTION                                                                            | NO. PINS PER ROW                                             | END ASSEMBLY | ASSEMBLED LENGTH                                            |
|------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------|-------------------------------------------------------------|
|            | <b>S</b><br>= Single                                                                  | -05, -08,<br>-10, -12,<br>-13, -15,<br>-17, -20,<br>-25, -36 |              | -“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 |

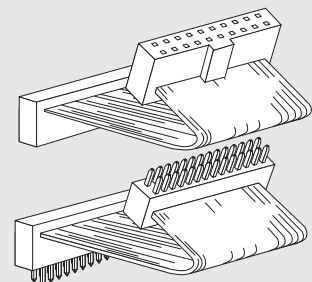


-S = Single End



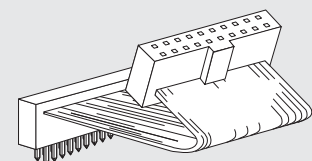
Socket or Male Plug on one end

-D = Double End



Socket or Male Plug on each end

-T = Transfer End



Male Plug on one end with socket on other.  
Begin part number with HCM.

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

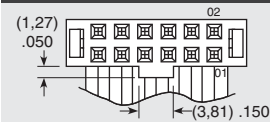
### PLATING OPTION

**-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

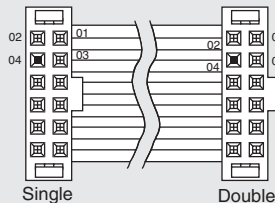
**-N** = Notch Polarization



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

### OTHER OPTIONS

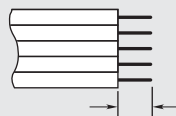
**-P "XX"**  
= Position Polarization



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

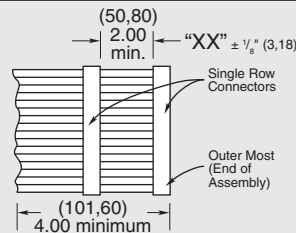
Specify Suffix from table. All  
dimensions are  $\pm 1/16$ " (1,59 mm). Not  
available in 28 positions and higher.



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

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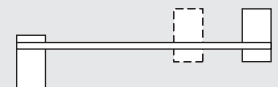
**-S "XX"**  
= Daisy Chain Single



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.

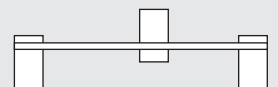
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**-R**  
= Reversed



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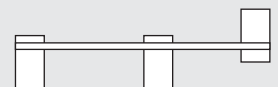
**-M**  
= Middle Reversed



Requires -SXX, -WXX or -DXX

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**-O**  
= Outside Reversed



Requires -SXX, -WXX or -DXX

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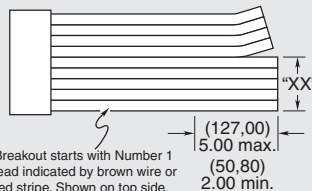
**-G**  
= Gray Cable

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

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**-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.

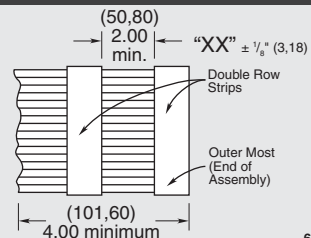
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**-RW**  
= Reversed Wiring

#1 wire opposite position #1

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



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**-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.

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