

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

## 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?HCM](http://www.samtec.com?HCM) or [www.samtec.com?HCS](http://www.samtec.com?HCS)

### 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**

**S**  
= Single

**D**  
= Double  
(Color coded cable N/A  
for 31 thru 36 pins/row.  
See -G option.)

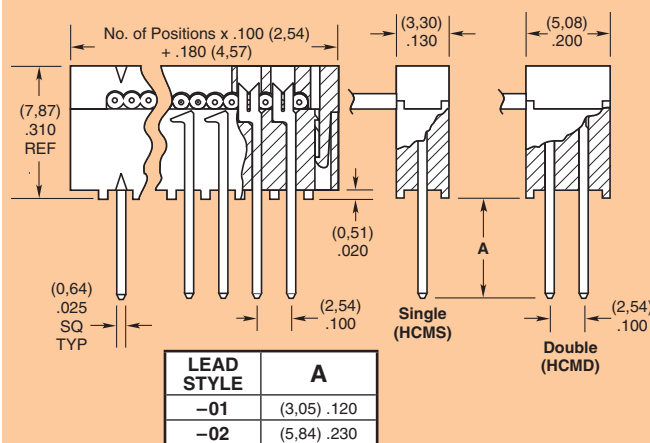
-05, -08,  
-10, -12,  
-13, -15,  
-17, -20,  
-25, -36

**—“XX.XX”**  
= Assembled Length

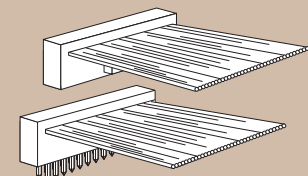
Assembled Length in  
INCHES (±1/8")  
2 inches minimum



**HCM**  
= Male Strip

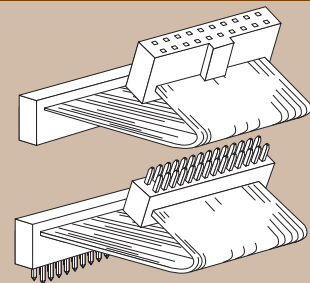


**—S = Single End**



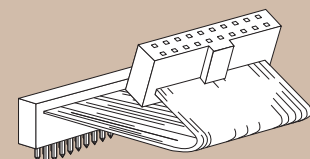
Socket or Male Plug on one end

**—D = Double End**



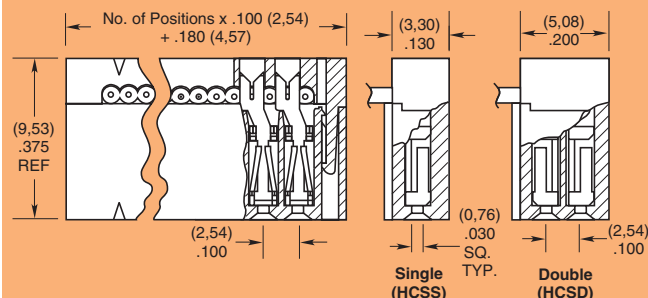
Socket or Male Plug on each end

**—T = Transfer End**



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

**HCS**  
= Socket Strip



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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

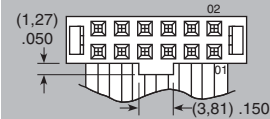
### PLATING OPTION

**-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

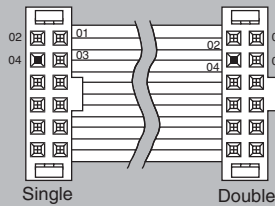
**-N** = Notch Polarization



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

### OTHER OPTIONS

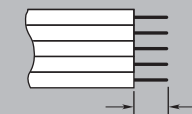
**-P "XX"**  
= Position Polarization



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

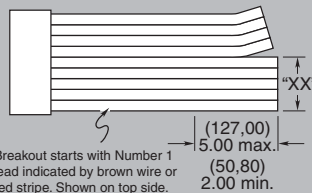
Specify Suffix from table. All  
dimensions are  $\pm 1/16$ " (1,59 mm). Not  
available in 28 positions and higher.



<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.

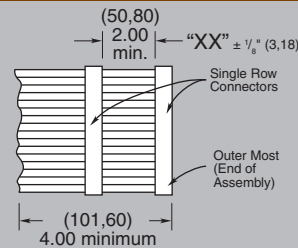


Breakout starts with Number 1  
lead indicated by brown wire or  
red stripe. Shown on top side.

**-RW**  
= Reversed Wiring

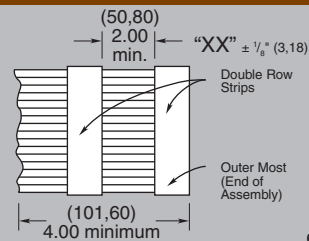
#1 wire opposite position #1

**-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.

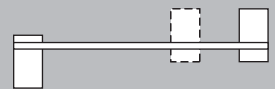
**-D "XX"**  
= Daisy Chain, Double



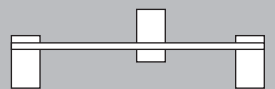
**-W "XX"**  
= Wiring Reversed  
Daisy Chain, Single

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

**-R**  
= Reversed

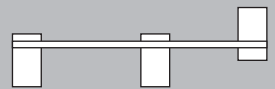


**-M**  
= Middle Reversed



Requires -SXX, -WXX or -DXX

**-O**  
= Outside Reversed



Requires -SXX, -WXX or -DXX

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