

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-0  
**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-0  
**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,<br>-25, -36 |              | -“XX.XX”<br>= Assembled Length                         |
|            | <b>D</b><br>= Double<br>(Color coded cable N/A for 36 pins/row. See -G option.) |  |              | Assembled Length in INCHES (±1/8")<br>2 inches minimum |

**HCM = Male Strip**

| LEAD STYLE | A           |
|------------|-------------|
| -01        | (3.05) .120 |
| -02        | (5.84) .230 |

**HCS = Socket 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.

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

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

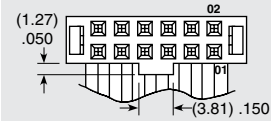
**PLATING OPTION**

**-S**  
= 10 μ" (0.25 μm) 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**

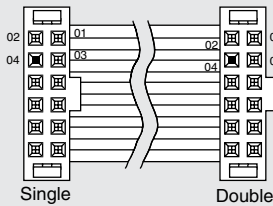
**-N** = Notch Polarization



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



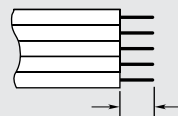
Specify "XX" as position. For Double  
the same position will be polarized  
on both ends. (Not available on  
HCM, unless Transfer, then only the  
socket is polarized)

**-G**  
= Gray Cable

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

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

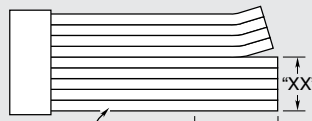
Specify Suffix from table. All  
dimensions are ± 1/16" (1.59 mm). Not  
available in 28 positions and higher.



|             |              |
|-------------|--------------|
| <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.

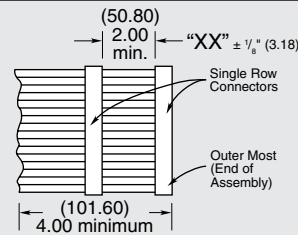


Breakout starts with Number 1  
lead indicated by brown wire or  
red stripe. Shown on top side.

**-RW**  
= Reversed Wiring

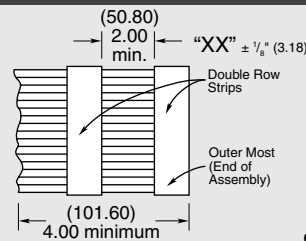
#1 wire opposite position #1

**-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.

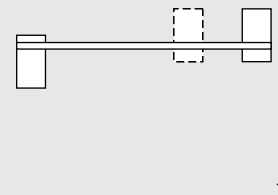
**-D "XX"**  
= Daisy Chain, Double



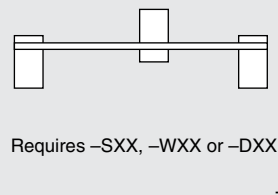
**-W "XX"**  
= Wiring Reversed  
Daisy Chain, Single

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

**-R**  
= Reversed

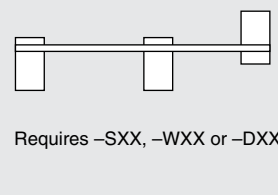


**-M**  
= Middle Reversed



Requires -SXX, -WXX or -DXX

**-O**  
= Outside Reversed



Requires -SXX, -WXX or -DXX

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[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.