

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-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:** 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?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:** -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  |
|------------|---|---|--------------|---|
|            | <p><b>S</b><br/>= Single</p> <p><b>D</b><br/>= Double<br/>(Color coded cable N/A for 36 pins/row. See -G option.)</p> | <p>-05, -08,<br/>-10, -12,<br/>-13, -15,<br/>-17, -20,<br/>-25, -36</p> |              | <p>-“XX.XX”<br/>= Assembled Length</p> <p>Assembled Length in INCHES (±1/8")<br/>2 inches minimum</p> |

**HCM = Male Strip**

No. of Positions x .100 (2,54) + .180 (4,57)

(7,87) .310 REF

(3,30) .130

(5,08) .200

(0,51) .020

(0,64) .025 SQ TYP

(2,54) .100

Single (HCMS)

Double (HCMD)

| LEAD STYLE | A           |
|------------|-------------|
| -01        | (3,05) .120 |
| -02        | (5,84) .230 |

**HCS = Socket Strip**

No. of Positions x .100 (2,54) + .180 (4,57)

(9,53) .375 REF

(3,30) .130

(5,08) .200

(2,54) .100

(0,76) .030 SQ. TYP.

Single (HCSS)

Double (HCSD)

**-S = Single End**

Socket or Male Plug on one end

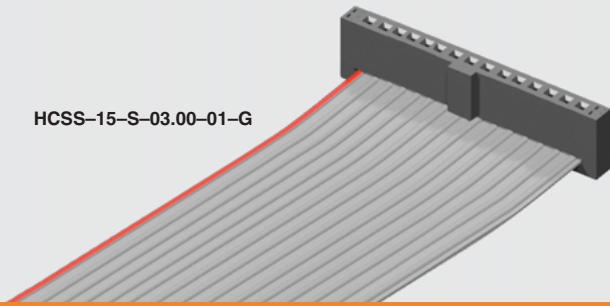
**-D = Double End**

Socket or Male Plug on each end

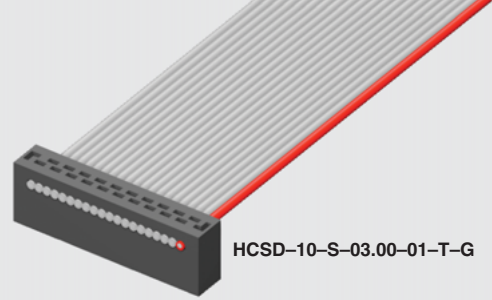
**-T = Transfer End**

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

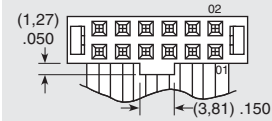
**PLATING OPTION**

**-S**  
= 10µ" (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**

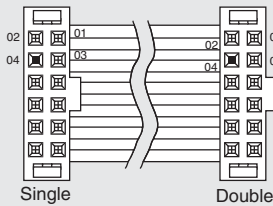
**-N** = Notch Polarization



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



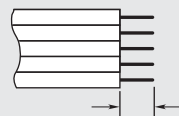
Specify "XX" as position. For Double  
the same position will be polarized  
on both ends. (Not available on  
HCM, unless Transfer, then only the  
socket is polarized)

**-G**  
= Gray Cable

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

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

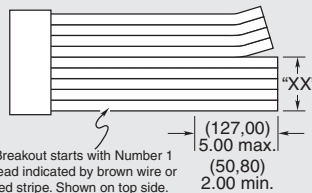
Specify Suffix from table. All  
dimensions are ± 1/16" (1,59 mm). Not  
available in 28 positions and higher.



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

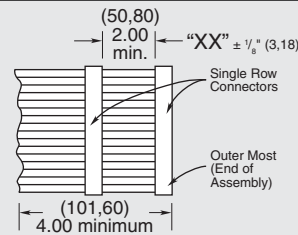


Breakout starts with Number 1  
lead indicated by brown wire or  
red stripe. Shown on top side.

**-RW**  
= Reversed Wiring

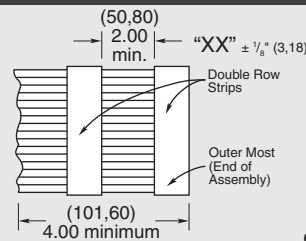
#1 wire opposite position #1

**-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.

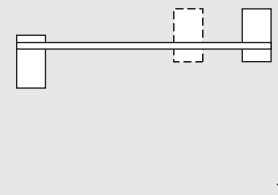
**-D "XX"**  
= Daisy Chain, Double



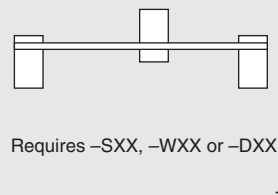
**-W "XX"**  
= Wiring Reversed  
Daisy Chain, Single

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

**-R**  
= Reversed

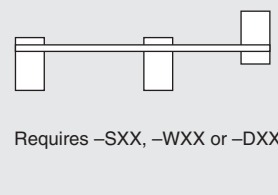


**-M**  
= Middle Reversed



Requires -SXX, -WXX or -DXX

**-O**  
= Outside Reversed



Requires -SXX, -WXX or -DXX