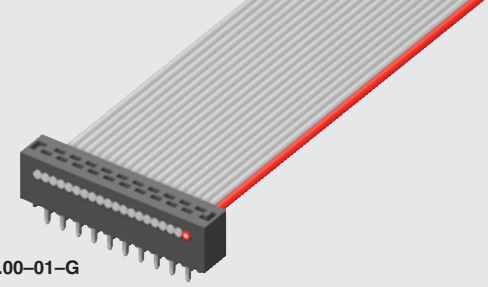
samtec



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 or 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 or www.samtec.com?HCMS

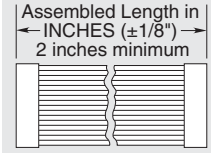
### HCMD, HCMS

**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

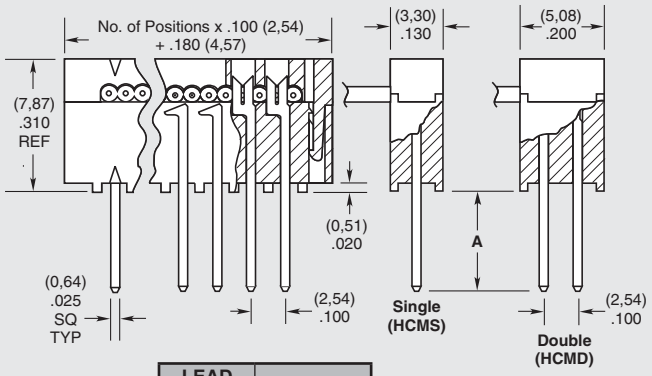
**Note:**
IDC assemblies are non-standard, non-returnable.

| TYPE STRIP | ROW OPTION | NO. PINS PER ROW | END ASSEMBLY | ASSEMBLED LENGTH |
|---|---|---|---|---|
| | **S** = Single<br>**D** = Double (Color coded cable N/A for 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

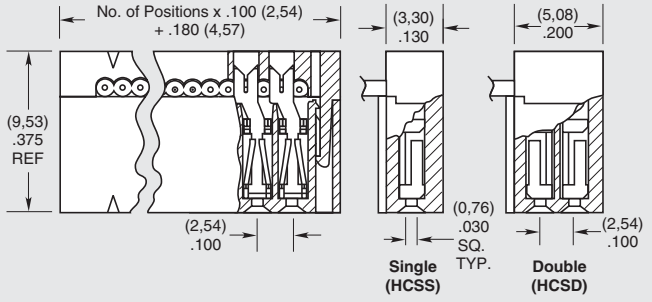


## HCM
= Male Strip

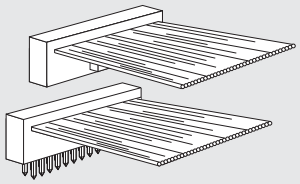



| LEAD STYLE | A |
|---|---|
| –01 | (3,05) .120 |
| –02 | (5,84) .230 |

## HCS
= Socket Strip

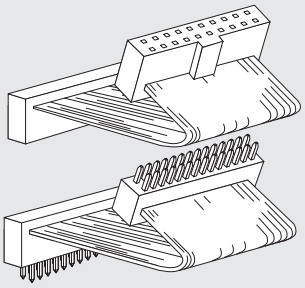



## –S = Single End



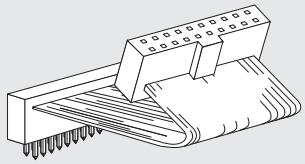
Socket or Male Plug on one end

## –D = Double End



Socket or Male Plug on each end

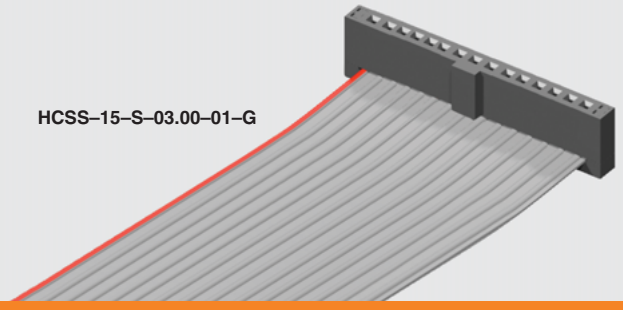
## –T = Transfer End



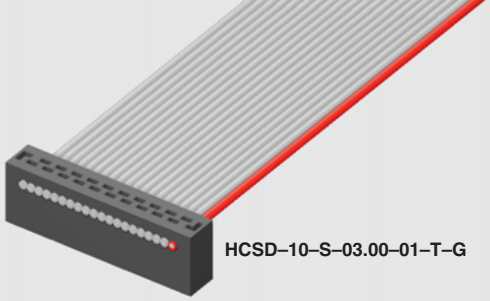
Male Plug on one end with socket on other.
**Begin part number with HCM.**



*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

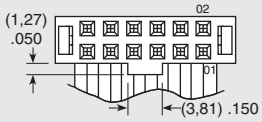
## PLATING OPTION

### –S
= 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

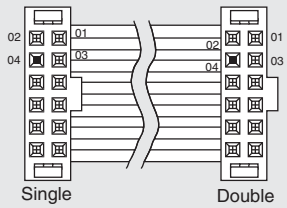
### –N = Notch Polarization




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)

1

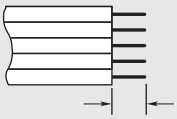
### –G
= Gray Cable

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

2

### –ST "X"
= Stripped & Tinned

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

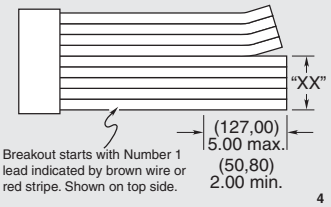


| | |
|---|---|
| –ST8 | 1/8" (3,18) |
| –ST4 | 1/4" (6,35) |
| –ST2 | 1/2" (12,70) |
| –ST3 | 3/8" (9,53) |

3

### –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.

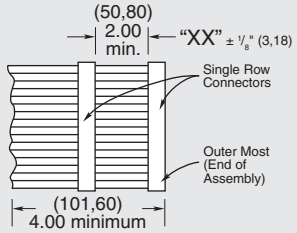
4

### –RW
= Reversed Wiring

#1 wire opposite position #1

5

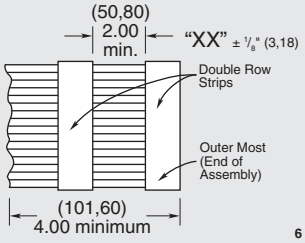
### –S "XX"
= Daisy Chain Single




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

### –D "XX"
= Daisy Chain, Double



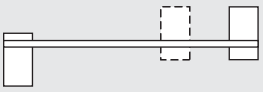

6

### –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.

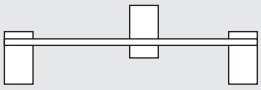
6

### –R
= Reversed



7

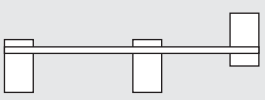
### –M
= Middle Reversed



Requires –SXX, –WXX or –DXX

7

### –O
= Outside Reversed



Requires –SXX, –WXX or –DXX

7



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