



IDMD-24-D-12.00-G

(2,54 mm) .100"

# SLIM BODY FLAT RIBBON IDC CABLES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?IDSS](http://www.samtec.com?IDSS), [www.samtec.com?IDSD](http://www.samtec.com?IDSD), [www.samtec.com?IDMS](http://www.samtec.com?IDMS) or [www.samtec.com?IDMD](http://www.samtec.com?IDMD)

### Insulator Material:

Black Glass Filled Polyester

### Plating:

Au over 50µ" (1,27 µm) Ni or Sn over 100µ" (2,54 µm) Cu or 50µ" (1,27 µm) Ni

### Wire:

28 AWG 7/36 stranded Tinned Copper

### Temperature Range:

-20°C to +105°C

(Rainbow Cable)

-40°C to +105°C

(Gray Cable)

### Contact (IDSS/IDSD):

BeCu

### Terminal (IDMS/IDMD):

Phosphor Bronze

### Current Rating (IDSD/TST):

3.4 A per pin

(1 position powered per row)

### Current Rating (IDMD):

3 A per pin

(1 position powered per row)

### Contact Resistance:

15 mΩ

### Lead Size Range:

(0,56 mm) .022" SQ to

(0,71 mm) .028" SQ

### Lead Insertion Depth:

(5,59 mm) .220" to

(6,22 mm) .245"

### Insertion Force:

(Single contact only)

4 oz (1,11 N) avg.

((0,64 mm) .025" SQ probe)

### Withdrawal Force:

(Single contact only)

3 oz (0,83 N) avg.

((0,64 mm) .025" SQ probe)

### RoHS Compliant:

Yes

### Mates with:

TSW, MTSW, TSM, EJH, PHT, HMTSW, HTSW, HW, DW, EW, ZW, MTLW

### IDSD Mates with:

TST, HTST, ZST, BST, EJH

**IDM**

= Standard Tail Male Plug

**IDS**

= Socket

**TYPE STRIP**
**ROW OPTION**
**NO. PINS PER ROW**
**END ASSEMBLY**
**S**

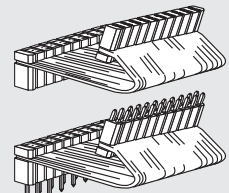
= Single

**D**

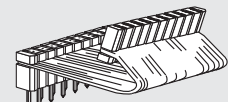
= Double  
(Color coded cable N/A for 31 thru 36 pins/row. See -G option.)

**-S = Single End**


Socket or Male Plug on one end

**-D = Double End**


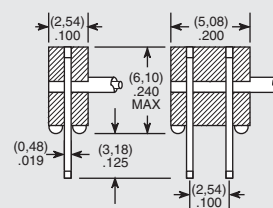
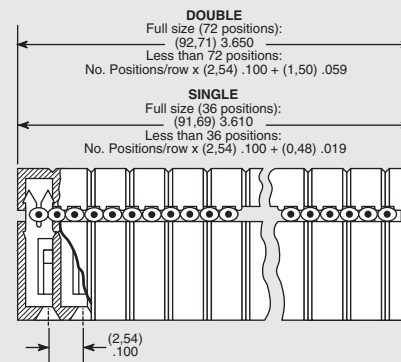
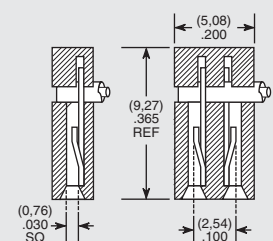
Socket or Male Plug on each end

**-T = Transfer End**


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

**-02 thru -32**


(For square or long tail see HCMX Series)

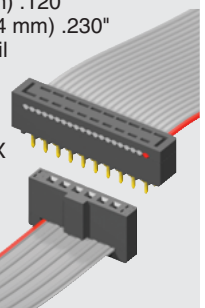
**IDMS (Single)**
**IDMD (Double)**

**-02 thru -36**

**IDSS (Single)**
**IDSD (Double)**


## OTHER SOLUTIONS

### Molded-To-Position IDC Assemblies

- Low profile
- Skinny side locks
- Dual beam contacts
- Single and double row
- (3,05 mm) .120" and (5,84 mm) .230" length tail available

Call Samtec for HCXX Series.



## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



**Note:**  
This Series is non-standard, non-returnable.



IDSD-24-S-05.00

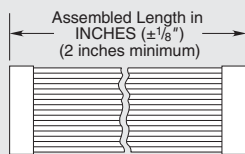


IDSD-05-D-04.25-S02

## IDSS, IDSD, IDMS, IDMD SERIES

### ASSEMBLED LENGTH

— “XX.XX”  
= Assembled Length



### OPTION

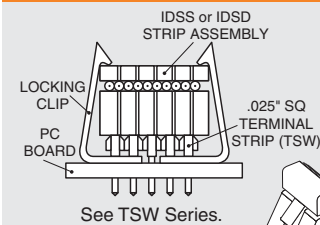
#### POLARIZING KEY



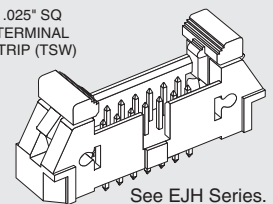
Optional polarizing key for use with IDSS & IDSD Series. Also polarizes SSW, SSQ, ESW & ESQ Series. Black High Temperature Thermoplastic

Order: Part Number PK-01-06  
(Available in wheels of six each)

### EJECTOR HEADERS & LOCKING CLIPS



- Ejector headers
- Locking clips



—T = Tin Plating  
(Both ends)

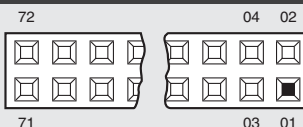
—C = Tin IDM  
= 10 $\mu$ " (0.25  $\mu$ m) Gold IDS  
(-T End Assembly Required)

—A = 10 $\mu$ " (0.25  $\mu$ m) Gold IDM  
= Tin IDS  
(-T End Assembly Required)

Standard plating is selective gold over BeCu contact for IDS;  
Selective gold over phosphor bronze for IDM.

1

—P “XX”  
= Polarized



Specify “XX” as position. For Double the same position will be polarized on both ends.  
(Not available on IDM unless transfer, then only the socket is polarized.)

2

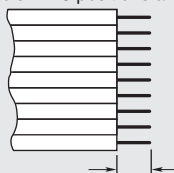
—G  
= Gray Cable

Specify -G for Gray cable. Gray cable has one red edge. IDSS and IDMS uses .100" centerline cable. IDSD and IDMD uses .050" centerline cable. Cable is 28 AWG 7/36 copper wire. Standard cable is same as above except color coded.

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—ST “X”  
= Stripped & Tinned

Specify Suffix from table.  
All dimensions are  $\pm 1/16"$ .  
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)  |

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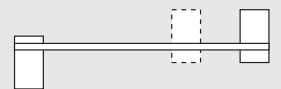
—S “XX”  
= Daisy Chain Single



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.

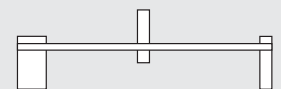
7

—R  
= Reversed



8

—M  
= Middle Reversed



Requires -SXX, -WXX or -DXX

8

—O  
= Outside Reversed

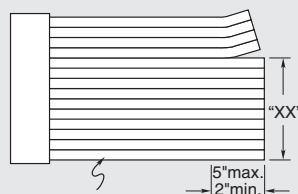


Requires -SXX, -WXX or -DXX

8

—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.

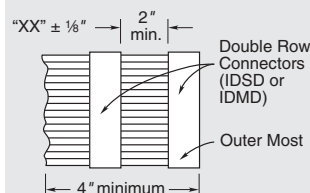
5

—RW  
= Reversed Wiring

#1 wire opposite position #1.

6

—D “XX”  
= Daisy Chain, Double



7

—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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