

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

**Current Rating (IDMD):**  
3 A per pin

**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**

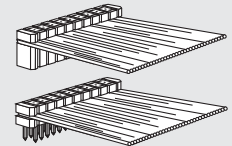
**NO. PINS PER ROW**

**END ASSEMBLY**

**S**  
= Single

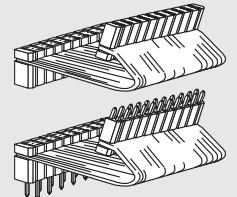
**D**  
= Double  
(Color coded cable N/A for 31 thru 36 pins/row. See -G option.)

**-S** = Single End



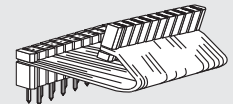
Socket or Male Plug on one end

**-D** = Double End



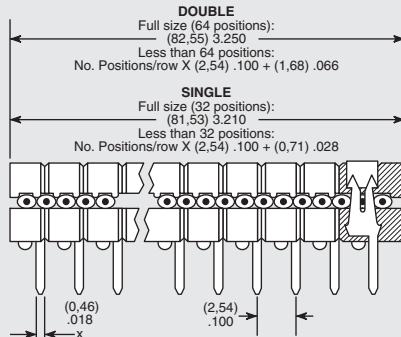
Socket or Male Plug on each end

**-T** = Transfer End



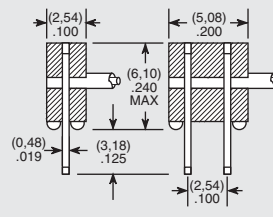
Male Plug on one end with socket on other. **Begin part number with IDM.**

## -02 thru -32

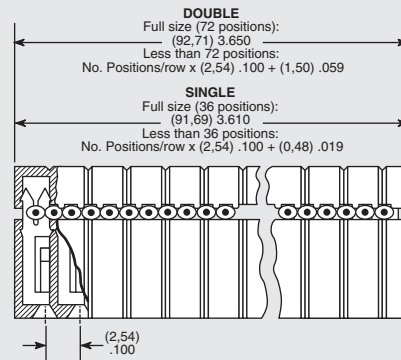


(For square or long tail see HCMX Series)

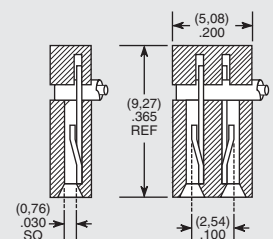
**IDMS (Single)**      **IDMD (Double)**



## -02 thru -36



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

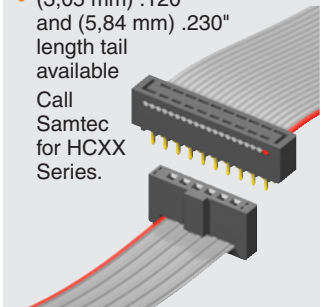


## OTHER SOLUTIONS

### 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.

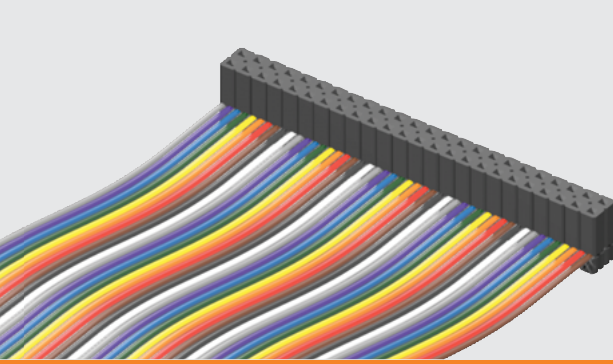


## RECOGNITIONS

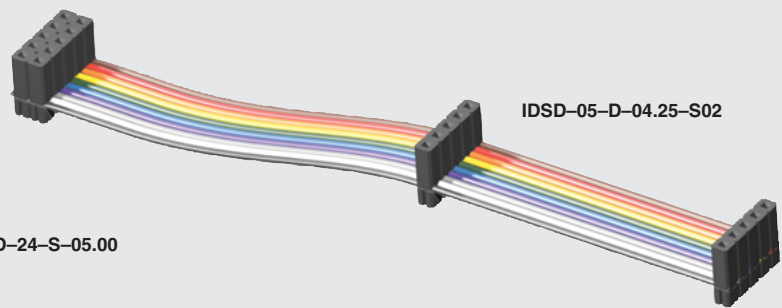
For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



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



IDSD-24-S-05.00

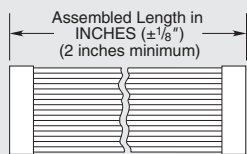


IDSD-05-D-04.25-S02

**IDSS, IDSD, IDMS, IDMD SERIES**

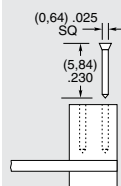
**ASSEMBLED LENGTH**

— “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

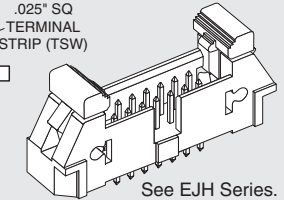
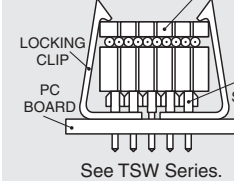
Order: Part Number PK-01-06  
(Available in wheels of six each)

**EJECTOR HEADERS & LOCKING CLIPS**



- Ejector headers
- Locking clips

IDSS or IDSD STRIP ASSEMBLY



—T = Tin Plating (Both ends)

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

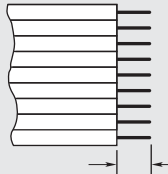
—A = 10 $\mu$ m (0.25  $\mu$ m) Gold IDM = Tin IDS (-T End Assembly Required)

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

1

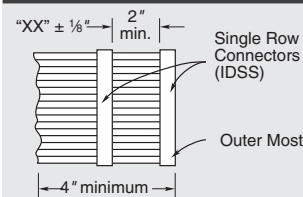
—ST “X”  
= Stripped & Tinned

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



4

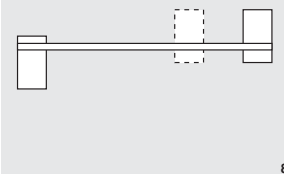
—S “XX”  
= Daisy Chain Single



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.

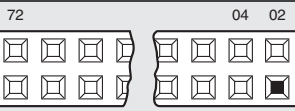
7

—R  
= Reversed



8

—P “XX”  
= Polarized

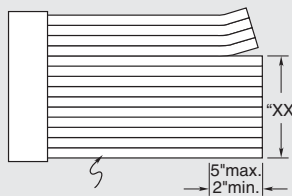


Specify “XX” as position. For Double the same position will be polarized on both ends. (Not available on IDM unless transfer, then only the socket is polarized.)

2

—B “XX”  
= Breakout

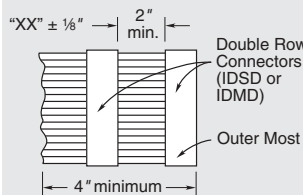
Specify “XX” as number of conductors to be broken out.



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

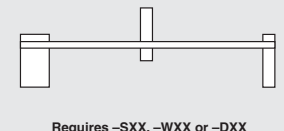
5

—D “XX”  
= Daisy Chain, Double



7

—M  
= Middle Reversed



8

—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.

3

—RW  
= Reversed Wiring

#1 wire opposite position #1.

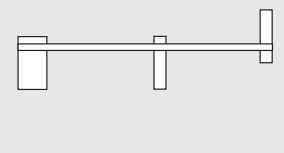
6

—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.

7

—O  
= Outside Reversed



8