

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 50 μm (1.27 μm) Ni or Sn over 100 μm (2.54 μm) Cu or 50 μm (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"

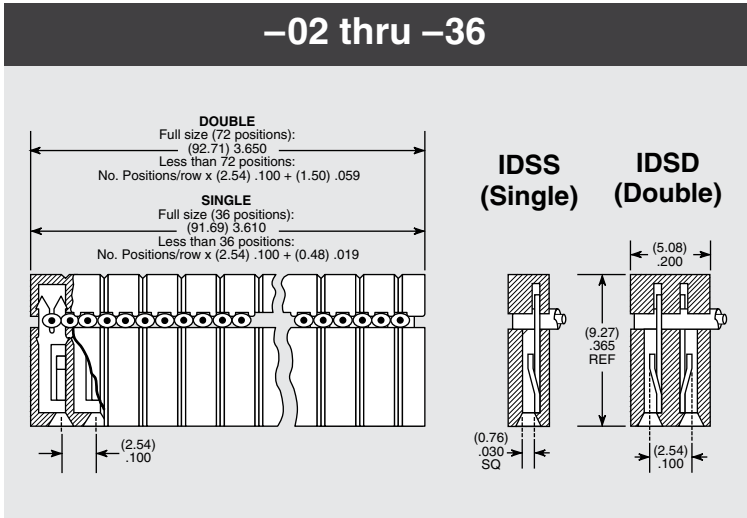
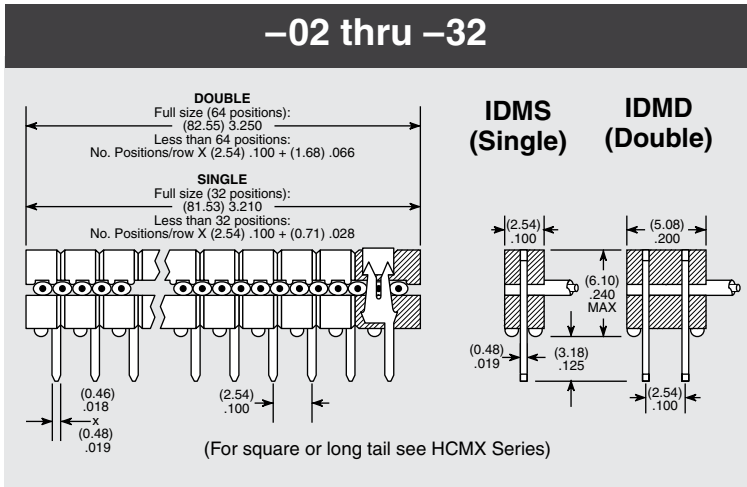
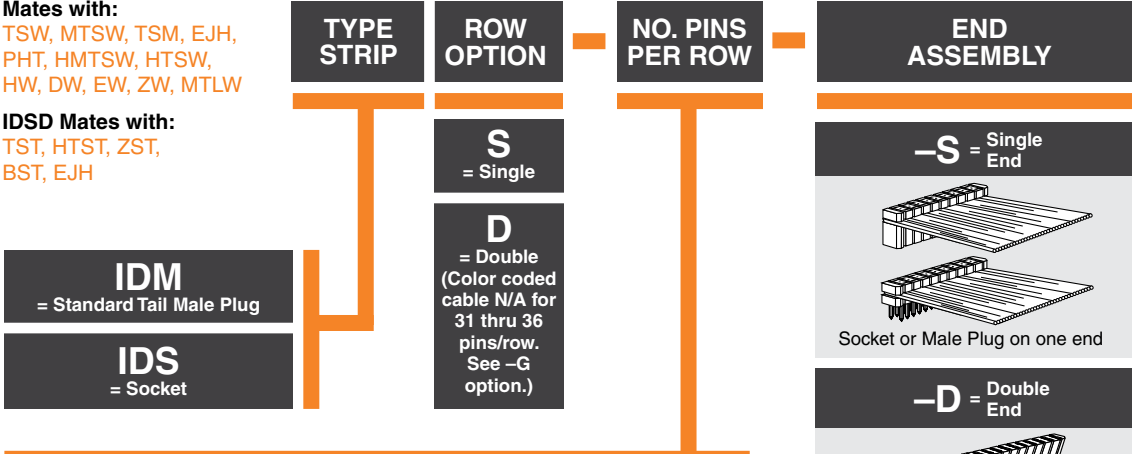
**RoHS Compliant:** Yes

**Mates with:**

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

**IDSD Mates with:**

TST, HTST, ZST, BST, EJH



## RECOGNITIONS

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

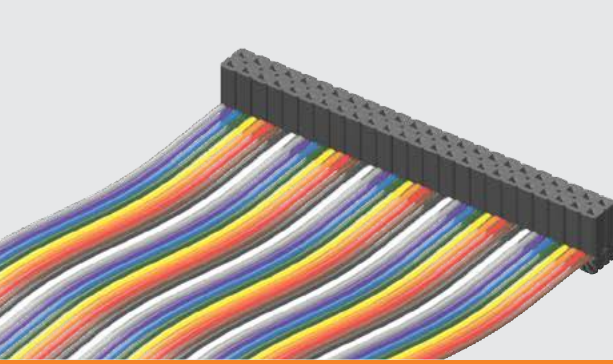


## OTHER SOLUTIONS

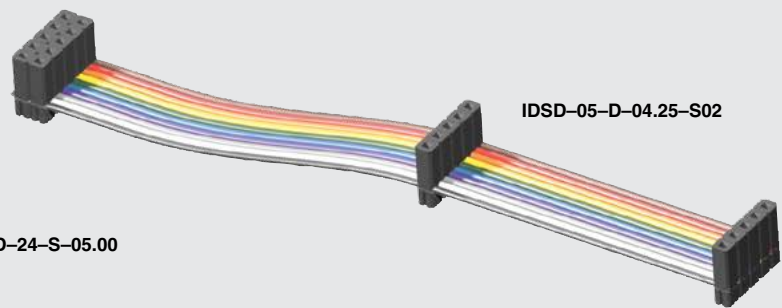
### Molded-To-Position IDC Assemblies

- 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.
- 

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



IDSD-24-S-05.00

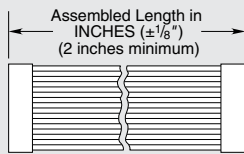


IDSD-05-D-04.25-S02

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

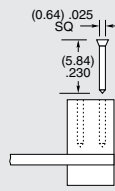
**ASSEMBLED LENGTH**

— “XX.XX”  
= Assembled Length



**OPTION**

**POLARIZING KEY**



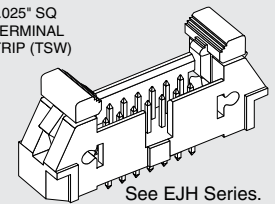
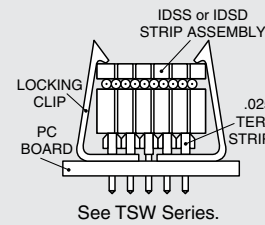
Optional polarizing key for use with IDSS & IDSD Series. Also polarizes SSW, SSQ, ESW & ESQ Series. Black High Temperature Thermoplastic

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

**EJECTOR HEADERS & LOCKING CLIPS**

**RUGGEDIZED**  
— BY SAMTEC —

- Ejector headers
- Locking clips



—T = Tin Plating (Both ends)

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

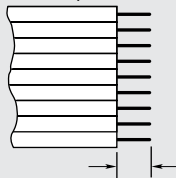
—A = 10  $\mu$ " (0.25  $\mu$ m) Gold IDM = Tin IDS (-T End Assembly Required)

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

1

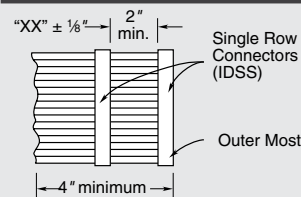
—ST “X”  
= Stripped & Tinned

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



4

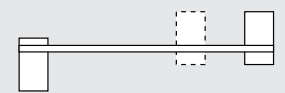
—S “XX”  
= Daisy Chain Single



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.

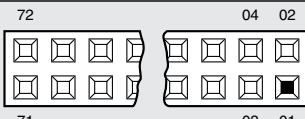
7

—R  
= Reversed



8

—P “XX”  
= Polarized

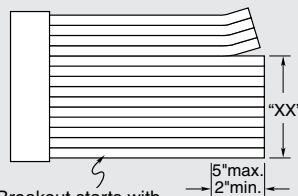


Specify “XX” as position. For Double the same position will be polarized on both ends. (Not available on IDM unless transfer, then only the socket is polarized.)

2

—B “XX”  
= Breakout

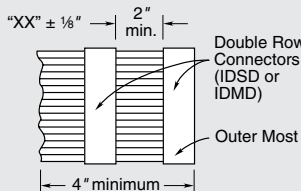
Specify “XX” as number of conductors to be broken out.



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

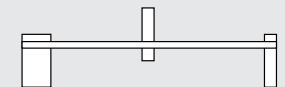
5

—D “XX”  
= Daisy Chain, Double



7

—M  
= Middle Reversed



Requires —SXX, —WXX or —DXX

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.

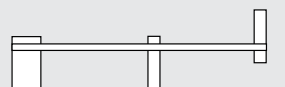
6

—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



Requires —SXX, —WXX or —DXX

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