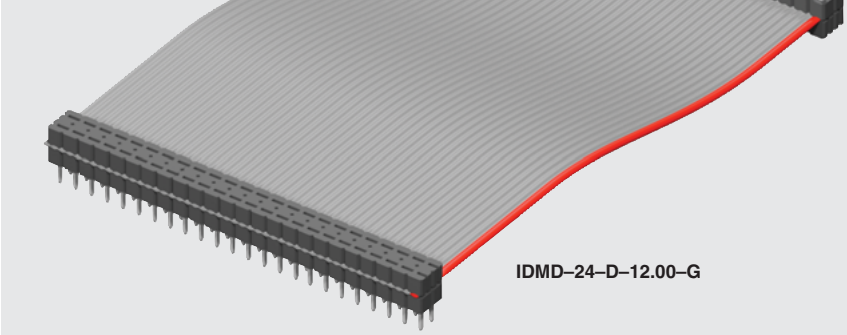
samtec



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, www.samtec.com?IDSD, www.samtec.com?IDMS or 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

## RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

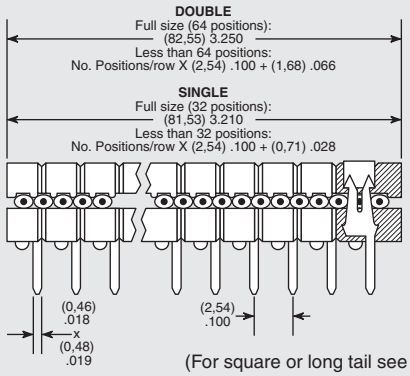
**Note:**
This Series is non-standard, non-returnable.

**Mates with:**
TSW, MTSW, TSM, EJH, PHT, HMTSW, HTSW, HW, DW, EW, ZW, MTLW

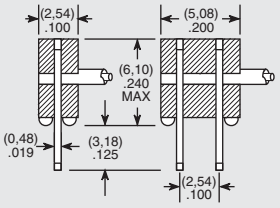
**IDSD Mates with:**
TST, HTST, ZST, BST, EJH

| TYPE STRIP | ROW OPTION | NO. PINS PER ROW | END ASSEMBLY |
|---|---|---|---|
| **IDM** = Standard Tail Male Plug<br>**IDS** = Socket | **S** = Single<br>**D** = Double (Color coded cable N/A for 31 thru 36 pins/row. See –G option.) | | |

## –02 thru –32

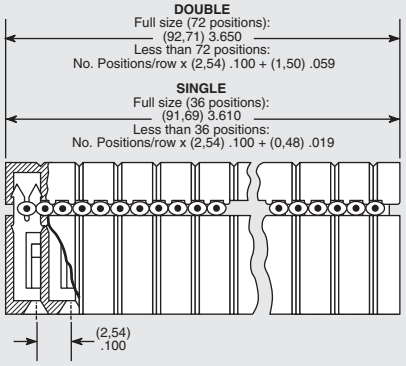



IDMS (Single) IDMD (Double)

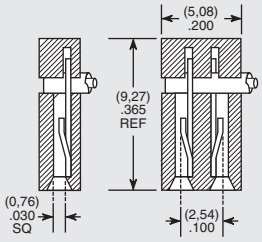



(For square or long tail see HCMX Series)

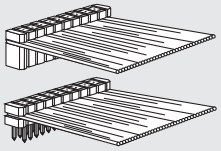
## –02 thru –36




IDSS (Single) IDSD (Double)

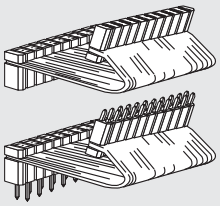



**–S** = Single End



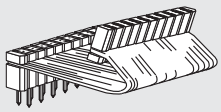
Socket or Male Plug on one end

**–D** = Double End



Socket or Male Plug on each end

**–T** = Transfer End



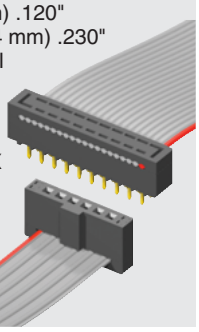
Male Plug on one end with socket on other. **Begin part number with IDM.**

## OTHER SOLUTIONS

### Molded-To-Position IDC Assemblies

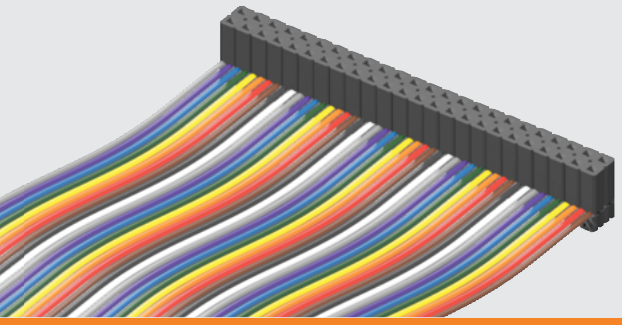
- Low profile
- Skinny side locks
- Dual beam contacts
- Single and double row
- (3,05 mm) .120" and (5,84 mm) .230" length tail available

Call Samtec for HCXX Series.

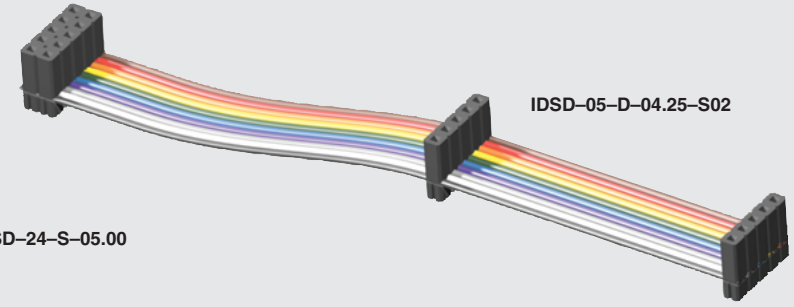




*Due to technical progress, all designs, specifications and components are subject to change without notice.*



IDSD–24–S–05.00

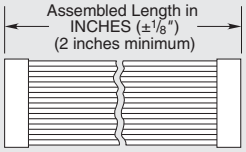


IDSD–05–D–04.25–S02

# IDSS, IDSD, IDMS, IDMD SERIES

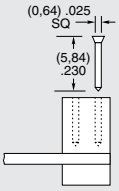
## ASSEMBLED LENGTH

### – "XX.XX"
= Assembled Length




## OPTION

### POLARIZING KEY



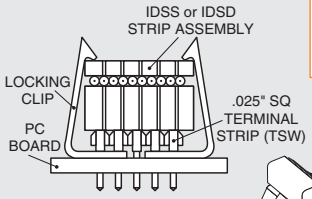

Optional polarizing key for use with IDSS & IDSD Series. Also polarizes SSW, SSQ, ESW & ESQ Series. Black High Temperature Thermoplastic

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

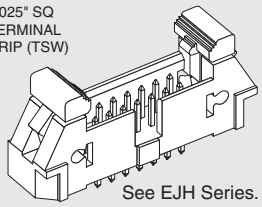
## EJECTOR HEADERS & LOCKING CLIPS

RUGGEDIZED by SAMTEC

- Ejector headers
- Locking clips




See TSW Series.



See EJH Series.

### –T = Tin Plating (Both ends)

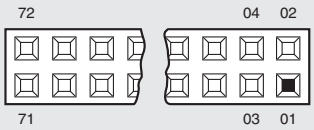
### –C = Tin IDM 10µ" (0,25 µm) Gold IDS (-T End Assembly Required)

### –A = 10µ" (0,25 µm) 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

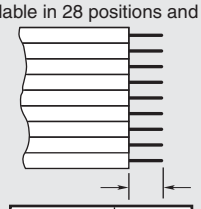
### –G
= Gray Cable

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.

3

### –ST "X"
= Stripped & Tinned

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

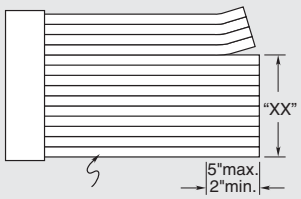


| | |
|---|---|
| –ST8 | 1/8" (3,18) |
| –ST4 | 1/4" (6,35) |
| –ST2 | 1/2" (12,70) |
| –ST3 | 3/8" (9,53) |

4

### –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.

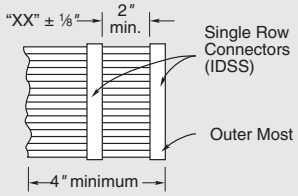
5

### –RW
= Reversed Wiring

#1 wire opposite position #1.

6

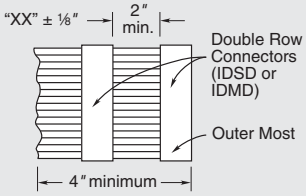
### –S "XX"
= Daisy Chain Single




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

### –D "XX"
= Daisy Chain, Double



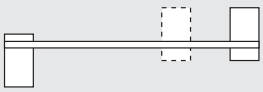

7

### –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.

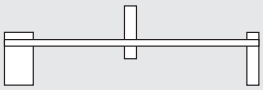
7

### –R
= Reversed



8

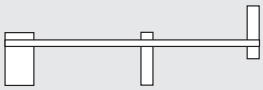
### –M
= Middle Reversed



Requires –SXX, –WXX or –DXX

8

### –O
= Outside Reversed



Requires –SXX, –WXX or –DXX

8



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