

(2,54mm) .100"

IDSS, IDSD, IDMS, IDMD SERIES

IDMD-24-S-12.00-G

# SLIM BODY FLAT RIBBON IDC CABLES

## SPECIFICATIONS

### IDSS, IDSD

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

#### Insulator Material:

Black Glass Filled Polyester



#### Plating:

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

BeCu

#### Current Rating:

1A

#### Contact Resistance:

15 mΩ max delta from initial

#### Lead Size Range:

(0,56mm) .022" SQ to

(0,71mm) .028" SQ

#### Lead Insertion Depth:

(5,59mm) .220" to

(6,22mm) .245"

#### Insertion Force:

(Single contact only)

4oz avg.

(0,64mm) .025" SQ probe

#### Withdrawal Force:

(Single contact only)

3oz avg.

(0,64mm) .025" SQ probe

RoHS Compliant: Yes

## SPECIFICATIONS

### IDMS, IDMD

For complete specifications see [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" (1,27µm) Ni or Sn over 100µ" (2,54µm) Cu or 50µ" (1,27µm) 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)

#### Terminal:

Phosphor Bronze

#### Current Rating:

1A

#### RoHS Compliant:

Yes

#### Note:

This Series is non-standard, non-returnable.

Mates with:  
TSW, MTSW,  
TSM, EJH, PHT

IDSD Mates with:  
TST, HTST, ZST

TYPE  
STRIP

ROW  
OPTION

NO. PINS  
PER ROW

END  
ASSEMBLY

IDM

= Standard Tail Male Plug

IDS

= Socket

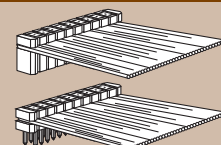
S

= Single

D

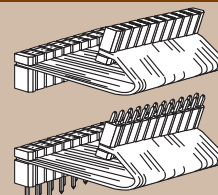
= Double  
(Color coded  
cable N/A for  
31 thru 36  
pins/row.  
See -G  
option.)

-S = Single  
End



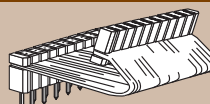
Socket or Male Plug on one end

-D = Double  
End



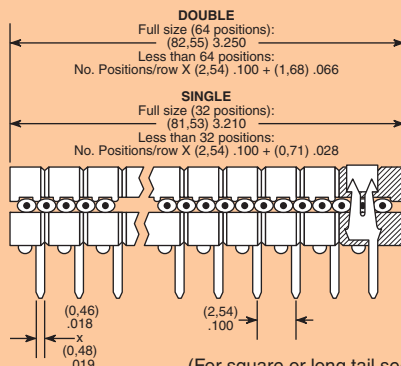
Socket or Male Plug on each end

-T = Transfer  
End



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

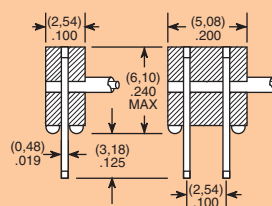
-02 thru -32



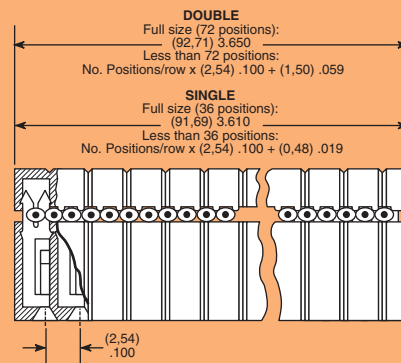
(For square or long tail see HCMX Series)

IDMS  
(Single)

IDMD  
(Double)

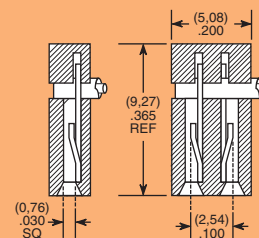


-02 thru -36



IDSS  
(Single)

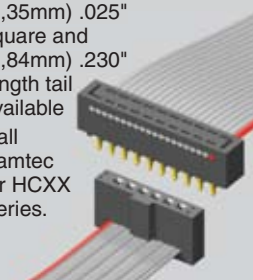
IDSD  
(Double)



## ALSO AVAILABLE

### Molded-To-Position IDC Assemblies

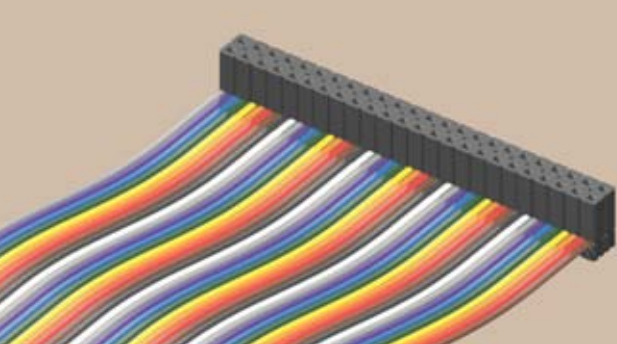
- Low Profile
- Skinny side locks
- Dual beam contacts
- Single and double row
- (6,35mm) .025" square and (5,84mm) .230" length tail available
- Call Samtec for HCXX Series.



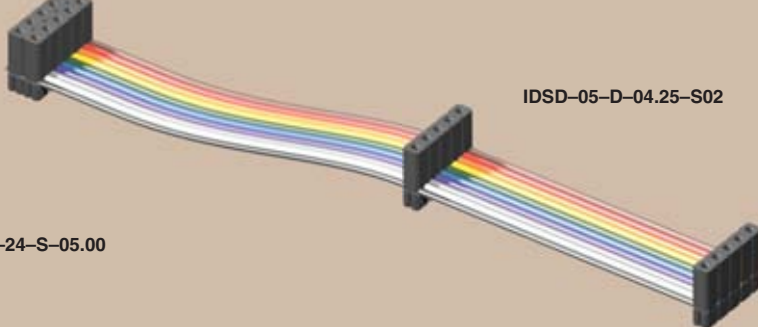
Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC NORTHERN CALIFORNIA • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292  
SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-6083 3766  
SAMTEC TAIWAN • Tel: 886-2-2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9580 0683



IDSD-24-S-05.00



IDSD-05-D-04.25-S02

## ASSEMBLED LENGTH

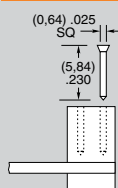
— “XX.XX”  
= Assembled Length

Assembled Length in INCHES ( $\pm 1/8"$ )  
(2 inches minimum)



## OPTION

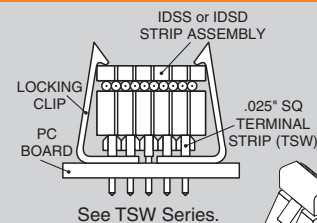
### POLARIZING KEY



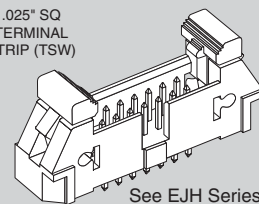
Optional polarizing key for use with IDSS & IDSD Series. Also polarizes SSW, SSQ, ESW & ESQ Series. Black High Temperature Thermoplastic

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

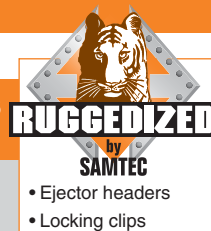
## EJECTOR HEADERS & LOCKING CLIPS



See TSW Series.



See EJJ Series.



- Ejector headers
- Locking clips

—T = Tin Plating  
(Both ends)

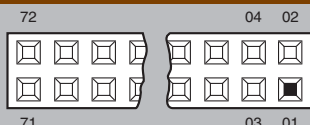
—C = Tin IDM  
= 10 $\mu$ " (0,25 $\mu$ m) Gold IDS  
(-T End Assembly Required)

—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 or EDM, unless transfer, then only the socket is polarized.)

2

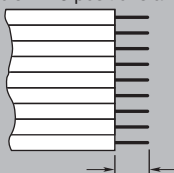
—G  
= Gray Cable

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

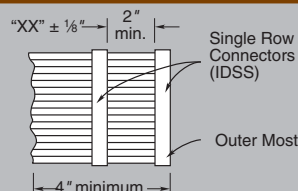
Specify Suffix from table.  
All dimensions are  $\pm 1/16"$ .  
Not available in 28 positions and higher.



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

4

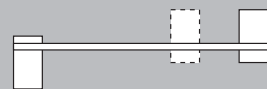
—S “XX”  
= Daisy Chain Single



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.

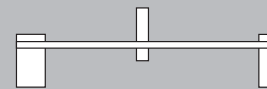
7

—R  
= Reversed



8

—M  
= Middle Reversed



Requires —SXX, —WXX or —DXX

8

—O  
= Outside Reversed

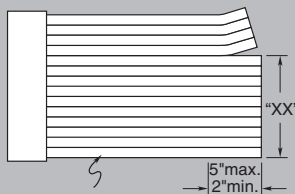


Requires —SXX, —WXX or —DXX

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.

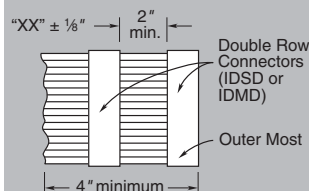
5

—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.

7

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

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC NORTHERN CALIFORNIA • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292  
SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-6083 3766  
SAMTEC TAIWAN • Tel: 886-2-2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9580 0683