samtec

IDMD–24–S–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):
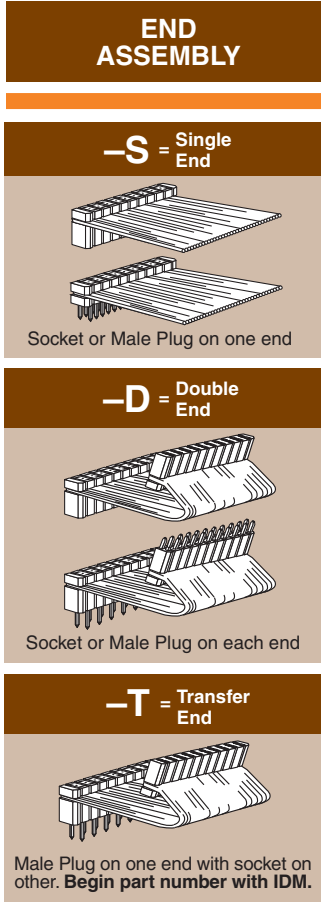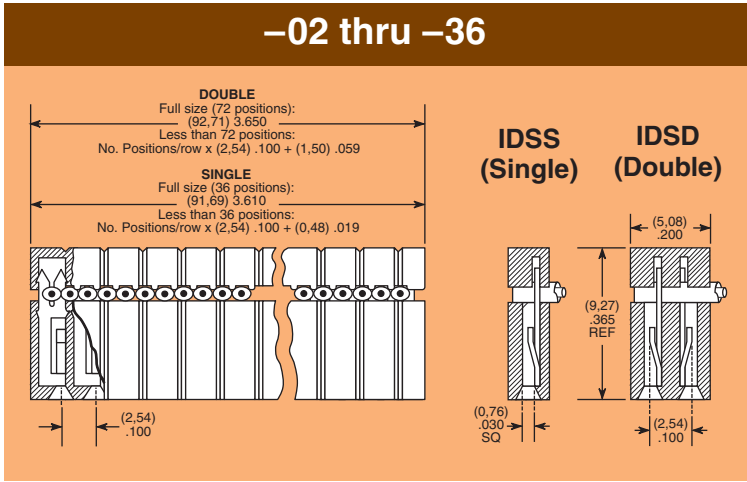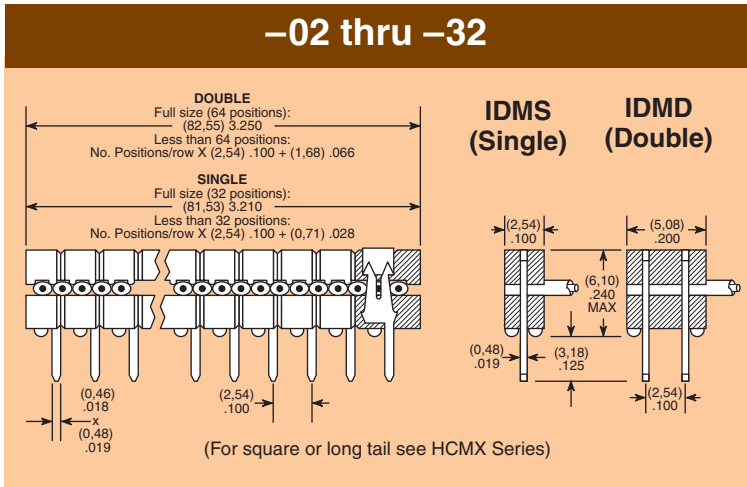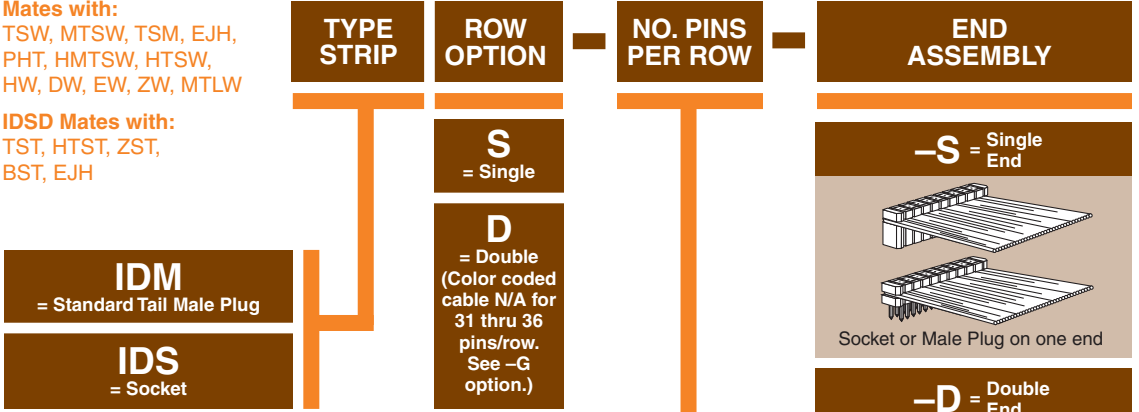3 A per pin
(1 position powered per row)
Contact Resistance:
15 mΩ
Lead Size Range:
(0,56 mm) .022" SQ to (0,71 mm) .028" SQ
Lead Insertion Depth:
(5,59 mm) .220" to (6,22 mm) .245"
Insertion Force:
(Single contact only)
4 oz (1,11 N) avg.
((0,64 mm) .025" SQ probe)
Withdrawal Force:
(Single contact 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

UL
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

IDM
= Standard Tail Male Plug

IDS
= Socket

ROW OPTION

S
= Single

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

NO. PINS PER ROW

END ASSEMBLY

–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

DOUBLE
Full size (64 positions):
(82,55) 3.250
Less than 64 positions:
No. Positions/row X (2,54) .100 + (1,68) .066

SINGLE
Full size (32 positions):
(81,53) 3.210
Less than 32 positions:
No. Positions/row X (2,54) .100 + (0,71) .028

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

(2,54) .100
(5,08) .200
(6,10) .240 MAX
(0,48) .019
(3,18) .125
(2,54) .100

(0,46) .018
x
(0,48) .019

(2,54) .100

(For square or long tail see HCMX Series)

–02 thru –36

DOUBLE
Full size (72 positions):
(92,71) 3.650
Less than 72 positions:
No. Positions/row x (2,54) .100 + (1,50) .059

SINGLE
Full size (36 positions):
(91,69) 3.610
Less than 36 positions:
No. Positions/row x (2,54) .100 + (0,48) .019

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

(5,08) .200
(9,27) .365 REF
(0,76) .030 SQ
(2,54) .100

(2,54) .100

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.

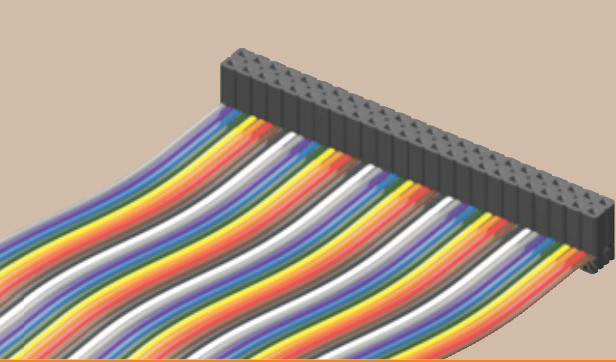*Due to technical progress, all designs, specifications and components are subject to change without notice.*
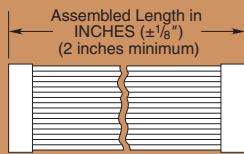
IDSD–05–D–04.25–S02

IDSD–24–S–05.00

IDSS, IDSD, IDMS, IDMD SERIES

ASSEMBLED LENGTH

– "XX.XX"
= Assembled Length

Assembled Length in INCHES (±¹⁄₈″)
(2 inches minimum)

OPTION

POLARIZING KEY

(0,64) .025 SQ
(5,84) .230
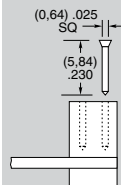
Optional polarizing key for use with IDSS & IDSD Series. Also polarizes SSW, SSQ, ESW & ESQ Series. Black High Temperature Thermoplastic
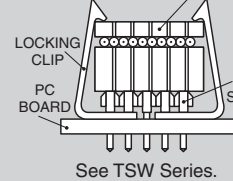
Order: Part Number PK-01-06
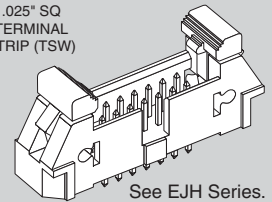(Available in wheels of six each)

EJECTOR HEADERS & LOCKING CLIPS

RUGGEDIZED by SAMTEC
• Ejector headers
• Locking clips

IDS or IDSD STRIP ASSEMBLY
LOCKING CLIP
PC BOARD
.025" SQ TERMINAL STRIP (TSW)

See TSW Series.

See EJH Series.

–T = Tin Plating (Both ends)

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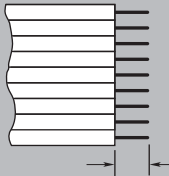10μ" (0,25 μm) Gold IDS
(-T End Assembly Required)

–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**
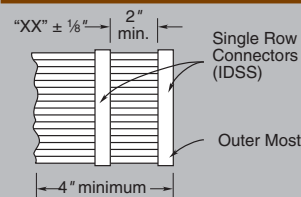
–P "XX"
=Polarized

72   04   02
71   03   01

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 ± 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.

"XX"
5"max.
2"min.

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

"XX" ± ¹⁄₈″   2″ min.
Single Row Connectors (IDSS)
Outer Most
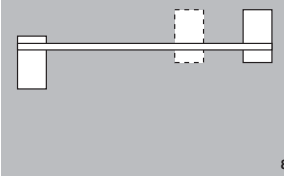4″ minimum

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**
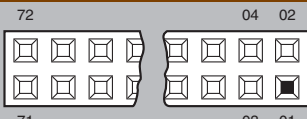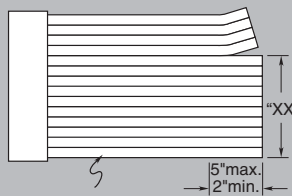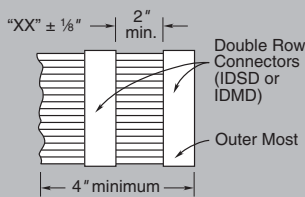
–D "XX"
= Daisy Chain, Double

"XX" ± ¹⁄₈″   2″ min.
Double Row Connectors (IDSD or IDMD)
Outer Most
4″ minimum

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**
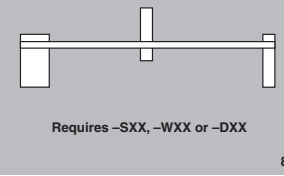
–R
= Reversed

8

–M
= Middle Reversed

Requires –SXX, –WXX or –DXX **8**

–O
= Outside Reversed

Requires –SXX, –WXX or –DXX **8**

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