# SLIM BODY FLAT RIBBON IDC CABLES

## (2.54 mm) .100" PITCH • IDSS/IDSD/IDMS/IDMD SERIES

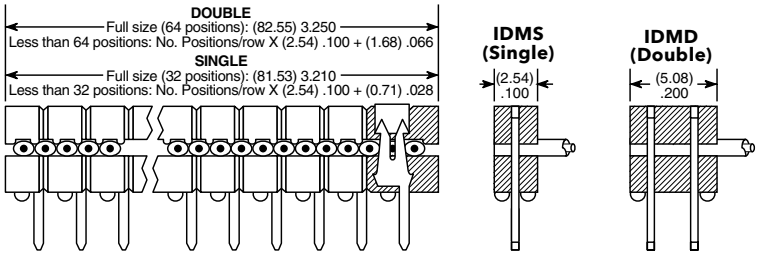
**IDSS/IDMS/IDMD**
**Mates:**
TSW, MTSW, TSM, EJH, PHT, HMTSW, HTSW, HW, DW, EW, ZW, MTLW

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

| SERIES | ROW OPTION | NO. PINS PER ROW |
|---|---|---|
| **IDM** = Standard Tail Male Plug | **S** = Single | **–02 thru –32** = IDMS/IDMD |
| **IDS** = Socket | **D** = Double (Color coded cable Not available for 31 thru 36 pins/row. See –G option.) | **–02 thru –36** = IDSS/IDSD |

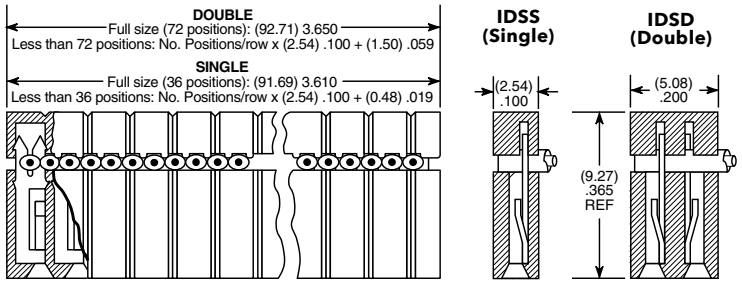
## SPECIFICATIONS

**Insulator Material:**
Black Glass Filled Polyester
**Contact (IDSS/IDSD):**
BeCu
**Terminal (IDMS/IDMD):**
Phosphor Bronze
**Plating:**
Au over 50 µ" (1.27 µm) Ni or Sn over 100 µ" (2.54 µm) Cu or 50 µ" (1.27 µm) Ni
**Wire:**
28 AWG 7/36 stranded Tinned Copper
**Operating Temp Range:**
-20 °C to +105 °C (Rainbow Cable)
-40 °C to +105 °C (Gray Cable)
**Current Rating (IDMD):**
3 A per pin (2 pins powered)
**Voltage Rating:**
425 VAC/600 VDC
**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"




(For square or long tail see HCMX Series)

**IDMX shown**

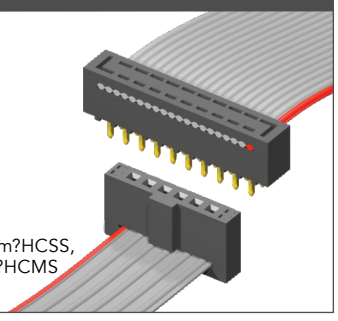


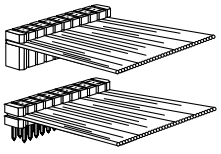

**IDSX shown**

## ALSO AVAILABLE

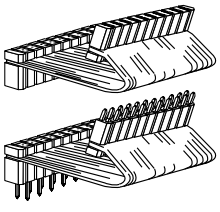
### Molded-To-Position IDC Assembles

Low Profile
Skinny side locks
Dual beam contacts
Single and double row
(6.35mm) .025" square and (5.84mm) .230" length tail available
Visit samtec.com?HCSD, samtec.com?HCSS, samtec.com?HCMD or samtec.com?HCMS for more detailed information.

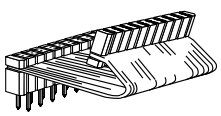




**Single End (–S)**



**Double End (–D)**



**Transfer End (–T)**

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



**samtec.com?IDSS, samtec.com?IDSD, samtec.com?IDMS or samtec.com?IDMD**

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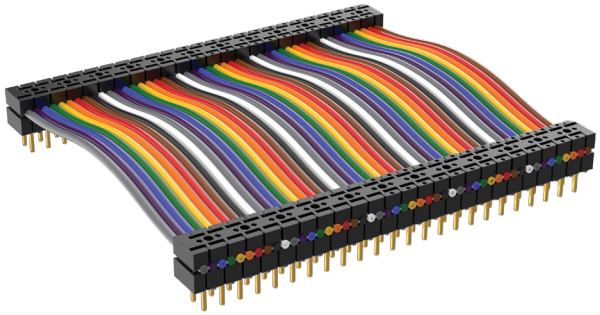
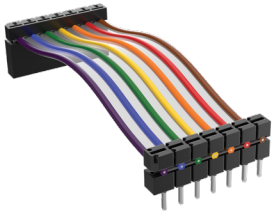




## END ASSEMBLY

**–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)

## ASSEMBLED LENGTH

**–"XX.XX"**
= Assembled Length

## OPTION

**–T**
= Tin Plating
(Both Ends)

**–C**
= Tin IDM,
10 µ" (0.25 µm) Gold IDS
(-T End Assembly Required)

**–A**
= Tin IDS,
10 µ"(0.25 µm) Gold IDM
(-T End Assembly Required)

**–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.)

**–G**
= Gray Cable
Specify –G for Gray cable.
Gray cable has one red edge.
IDSS and IDMS uses
(2.54 mm) .100" centerline cable.
IDSD and IDMD uses
(1.27 mm) .050" centerline cable.
Cable is 28 AWG 7/36 copper wire.
Standard cable is same as
above except color

**–ST "X"**
= Stripped & Tinned
(Specify Suffix from table)
(All dimensions are ± 1/16" (1.59 mm)
(Not available in 28 positions and higher)

**–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)

**–RW**
= Reverse Wiring
(#1 wire opposite position #1)

**–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)

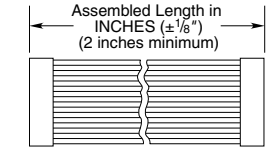
**–D "XX"**
= Daisy Chain, Double

**–W "XX"**
= Wiring Reverse Daisy Chain, Single
(Same as –S "XX" except outer strip
connected to Conductor #2 and inside
strip connected to Conductor #1)

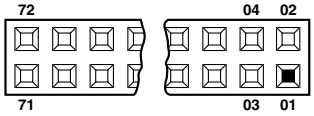
**–R**
= Reversed

**–M**
= Middle Reversed
(Requires –SXX, –WXX or –DXX)

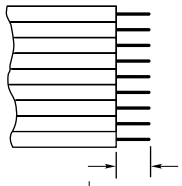
**–O**
= Outside Reversed
(Requires –SXX, –WXX or –DXX)




**Assembled Length (–"XX.XX")**

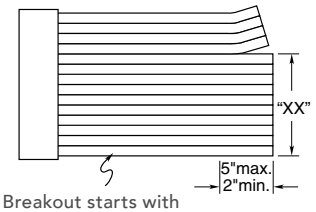



**Polarized (–P "XX")**



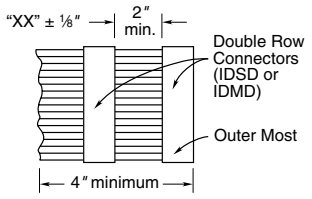
| | |
|---|---|
| –ST8 | 1/8" (3.18) |
| –ST4 | 1/4" (6.35) |
| –ST2 | 1/2" (12.70) |
| –ST3 | 3/8" (19.53) |

**Stripped & Tinned (–ST "X")**

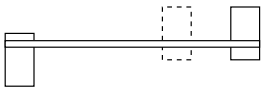



Breakout starts with
Number 1 lead indicated
by brown wire or red stripe.
Shown on top side.

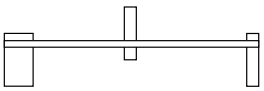
**Breakout (–B "X")**



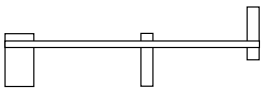

**Daisy Chain SIngle (–S "XX")**



**Reversed (–R)**



**Middle Reversed (–M)**



**Outside Reversed (–O)**



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