SLIM BODY FLAT RIBBON IDC CABLES

SPECIFICATIONS


Insulator Material:
Black Glass Filled Polyester

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

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 (2 pins powered)

Current Rating (IDMD):
3 A per pin (2 pins powered)

Lead Size Range:
(0.56 mm) .022” SQ to (0.71 mm) .028” SQ

Lead Insertion Depth:
(2.59 mm) .220” to (6.22 mm) .245”

RoHS Compliant:
Yes

RECOGNITIONS

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

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

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

IDMD (Double)

S = Single

D = Double

(For square or long tail see HCMX Series)

IDSS (Single)

IDSS (Double)

IDM

= Standard Tail Male Plug

IDS

= Socket

OTHER SOLUTIONS

Molded-To-Position IDC Assemblies

- Low profile
- Skinny side locks
- Dual beam contacts
- Single and double row

Note:
This Series is non-standard, non-returnable.
**EJECTOR HEADERS & LOCKING CLIPS**

- Ejector headers
- Locking clips

**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)

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**OPTION**

- **ST “XX”** = Stripped & Tinned
  - Specify Suffix from table. All dimensions are ± 1/16".
  - Not available in 28 positions and higher.

<table>
<thead>
<tr>
<th>ST</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST8</td>
<td>1/16&quot; (3.18)</td>
</tr>
<tr>
<td>ST14</td>
<td>1/4&quot; (6.35)</td>
</tr>
<tr>
<td>ST2</td>
<td>1/2&quot; (12.70)</td>
</tr>
<tr>
<td>ST3</td>
<td>3/8&quot; (9.53)</td>
</tr>
</tbody>
</table>

- **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
- **G** = Gray Cable

- **S “XX”** = Daisy Chain Single
  - “XX” ± 1/8" Single Row Connectors (IDSS)
  - Outer Most
  - 2" 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.

- **D “XX”** = Daisy Chain, Double
  - “XX” ± 1/8" Double Row Connectors (IDSD or IDMD)
  - Outer Most
  - 4" minimum

- **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.

- **R** = Reversed
- **M** = Middle Reversed
- **O** = Outside Reversed

**ASSEMBLED LENGTH**

- **“XX.XX”** = Assembled Length
  - Assembled Length in INCHES ± 1/8"
  - (2 inches minimum)

- **–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.

- **–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

- **–ST “XX”** = Stripped & Tinned
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  - 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** = Reversed Wiring
  - #1 wire opposite position #1.

- **–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.

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

All parts within this catalog are built to Samtec’s specifications.
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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