DN SERIES-NEW D SUBMINIATURE INTERFACE CONNECTORS

General

The DN series are compact, rectangular multi-contact connectors developed to meet the demand for smaller and slimmer electronic equipment. 2.54 mm grid contact position and Direct dip soldering on PCB enable high density circuit designing at reduced cost. Aluminum die-cast shell and Metallic shell are shielded to prevent from Electro-Magnetic interference. 20, 26, 36 and 50 way available.

Features

1. 2.54 mm grid contact position enable high density circuit designing.
2. Stable quality due to the contact design based on our field-proven SM series (D sub-connector).
3. One-touch lock system ensures perfect operation.
4. The cover case uses a thin, low-back compact design that meets the needs of high density mounting. It can be mounted between 17.78 millimeters (700mil) substrates.
5. The cover case is made of aluminum diecast to shield against electromagnetic waves In a combination with a connector metal shell, the cover case is an ideal solution for noise.
6. Dip soldering connectors are provided with snap clamps for temporarily fixing the connector on the PCB.
7. IDC termination types are for standard 1.27 mm pitch cables, and are available for two types of cables: AWG26 and AWG28.
8. Crimp contact cables from AWG26 through AWG28.
9. Allows you to take out the cable vertically or horizontally, as your application requires.

Application

Office Automation, Computers, Communications Equipment, Factory Automation, Home Automation and other commercial applications needing high density interconnections.
Specifications and Material

<table>
<thead>
<tr>
<th>Main specifications</th>
<th>Main materials used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current capacity</td>
<td>Shell</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>Insulator</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>Contacts</td>
</tr>
<tr>
<td>Contact resistance</td>
<td></td>
</tr>
<tr>
<td>Withstand voltage</td>
<td></td>
</tr>
</tbody>
</table>

Ordering Information

(1) Series Number: DN
(2) Type
   10: Right Angle Dip Type
   30: IDC Plug Type
   50: Crimp Type
(3) No. of Pins: 20, 26, 36 and 50 way
(4) P: Plug
   S: Receptacle
(5) Shell
   CVE1: Angle Cable Exit Shell
   CV1: Straight Cable Exit Shell
(6) Applicable Wire
   2628: AWG#26 ~ AWG#28
(7) Type of Contact Pin
   PC1: Bulk Pin Contact
   PC2: Chain Pin Contact
(8) Specification
   (50): RoHS compliant

Cable specifications

Pin: AWG#28(7/0.127)
AWG#26(7/0.16)
Crimp Pin Housing

DN50-26P

IDC Plug

DN30-36P (50)

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.
Angle Cable Exit Shell

![Image of Angle Cable Exit Shell]

<table>
<thead>
<tr>
<th>HRS No.</th>
<th>Unit pt</th>
<th>Part No.</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>RoHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>225-0031-7</td>
<td>20</td>
<td>DN-26-CVE1</td>
<td>45.9</td>
<td>15.7</td>
<td>9</td>
<td>YES</td>
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<tr>
<td>225-0031-1</td>
<td>26</td>
<td>DN-26-CVE1</td>
<td>53.9</td>
<td>13.7</td>
<td>9</td>
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<td>225-0031-4</td>
<td>36</td>
<td>DN-36-CVE1</td>
<td>66.2</td>
<td>14.2</td>
<td>11</td>
<td>YES</td>
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</tbody>
</table>

Straight Cable Exit Shell

![Image of Straight Cable Exit Shell]

<table>
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<tr>
<th>HRS No.</th>
<th>Unit pt</th>
<th>Part No.</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>RoHS</th>
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<tr>
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<td>20</td>
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<td>YES</td>
</tr>
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</table>
Right Angle P.C. Mount Receptacle

PCB Layout

mounting panel thickness 1.6mm
Straight P.C. Mount Receptacle

DN20B-26S (50)

PCB Layout

Panel Cutout

Note: 1. Use a 1.6-mm thick panel.
2. The substrate reference drawing shows the connector-mounting surface. The area marked with [ ] is to be prohibited from entering any pattern.
3. The substrate and panel are related to each other, with a 0/3.2 mounting hole as the reference point.
4. The panel is 1.6 millimeters thick.
Pin Crimp Terminal

Applicable Wire

Applicable wire: AWG No.26 ~ AWG No.28

Tooling (for Crimp Plug)

CM-105 Crimp Machining

This machine has been carefully designed to meet the many requests for advanced crimping machines that can be used in a wider range of applications. This machine offers easy setup adjustment and applicator mounting. We are confident that the machine will find many applications as an easy-to-use semi-automatic machine for crimping strip contacts.

Power Specifications

<table>
<thead>
<tr>
<th>Power Source</th>
<th>AC 100V 200W</th>
</tr>
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<tbody>
<tr>
<td>Total Weight</td>
<td>75 kgs</td>
</tr>
<tr>
<td>Performance</td>
<td>2,000-4,000 crimps per hour</td>
</tr>
<tr>
<td>Work Range</td>
<td>Adaptable to other HIROSE dies</td>
</tr>
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</table>

Semi-Auto Machine
CM-105
(CLM01-0005-4)
Applicator (Die) 105-DN50
(CLM01-0208-1)

Hand Tool
DN50-TA2628HC
(CL50-0101-0)
Tooling (for IDC Plug)

Hi-Flex Termination Press and Accessories

General

The Hi-Flex termination press and its accessories connect the connectors to the HIF series ribbon cables more securely and quickly.

Features

1. No incomplete connections. A preventive ratchet-type device ensures against misconnections.
2. Prevents damage to connectors during connection. The guide plate works as a stopper to prevent damage to connectors due to connection pressure.
3. Easy to position the connector and cable. The guide plate case guide and cable stopper help positioning.
4. Capable of cable connection at an intermediate point when the cable stopper is removed.