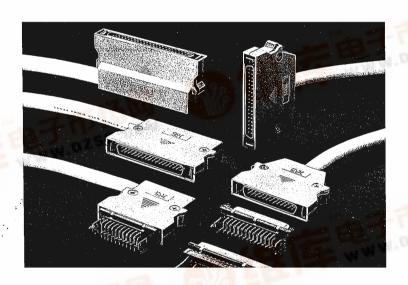
DN SERIES-NEW D SUBMINIATURE INTERFACE CONNECTORS

General

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

The DN series are compact, rectangular multi-contact high density circuit designing at reduced cost. Aluminum die-cast shell and Metallic shell are shieled to prevent from Electro-Magnetic interference. 20, 26, 36 and 50 way available.



Features

- 2.54 mm grid contact position enable high density circuit designing.
- Stable quality due to the contact design based on our field-proven SM series (D sub-connector).
- One-touch lock system ensures perfect operation.
- 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.
- The cover case is made of aluminum diecast to shield aginst electromagnetic waves. In a combination with a connector metal shell, the cover case is an ideal solution for noise.
- Dip soldering connectors are provided with snap clamps for temporarily fixing the connector on the PCB.
- IDC termination types are for standard 1.27 mm pitch cables, and are available for two types of cables: AWG26 and AWG28.
- Crimp contact cables from AWG26 through AWG28.
- Allows you to take out the cable vertically or horizontally, as your application requires.

Applications

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

Specifications and Material

Main s	pecifications
Current capacity	3A
Rated voltage	AC200V
Insulation resistance	5000mΩ on higher at DC 500V
Contact resistance	20mΩ or less at DC 100mA
Withstand voltage	1 minute AC 1000 Vrms

	Main materials used	
Shell	Aluminum dei-cash	Silver coating
Insulator	PBT *	Black
Contacts	Phosphor bronze	Selective gold plating

* UL94V-0

Ordering Information

$$\frac{DN}{|} \frac{10}{|} - \frac{26}{|} \frac{S}{|}$$
(1) (2) (3)(4)

$$\frac{DN}{\begin{vmatrix} \cdot & \cdot \\ \cdot & \cdot \end{vmatrix}} - \frac{CVE 1}{\begin{vmatrix} \cdot & \cdot \\ \cdot & \cdot \end{vmatrix}}$$
(1) (3) (5)

$$\frac{DN}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}} \frac{50}{\begin{vmatrix} 1 \\ 2 \end{vmatrix}} - \frac{2628}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}} \frac{PC1}{\begin{vmatrix} 1 \\ 1 \end{vmatrix}}$$
(1) (2) (6) (7)

- (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

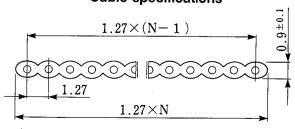
2628: AWG#26 ~ AWG#28

(7) Type of Contact Pin

PC1: Bulk Pin Contact

PC2: Chain Pin Contact

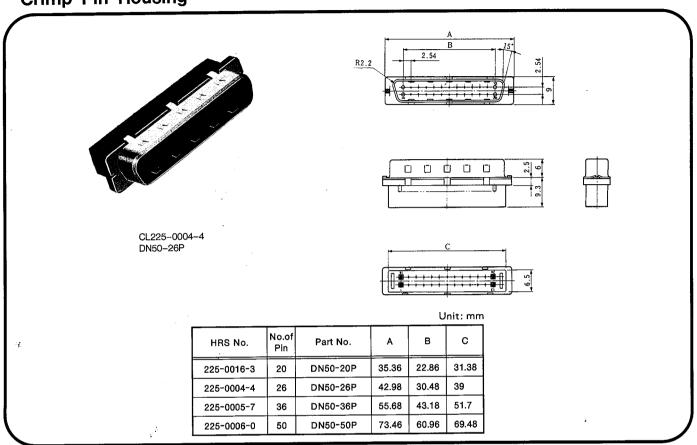
Cable specifications



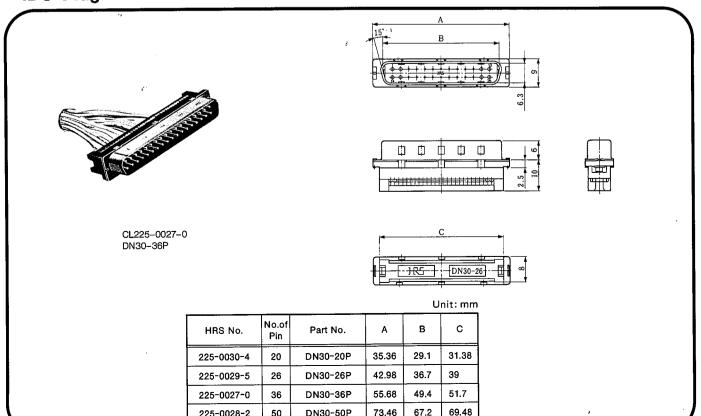
N: Pin

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

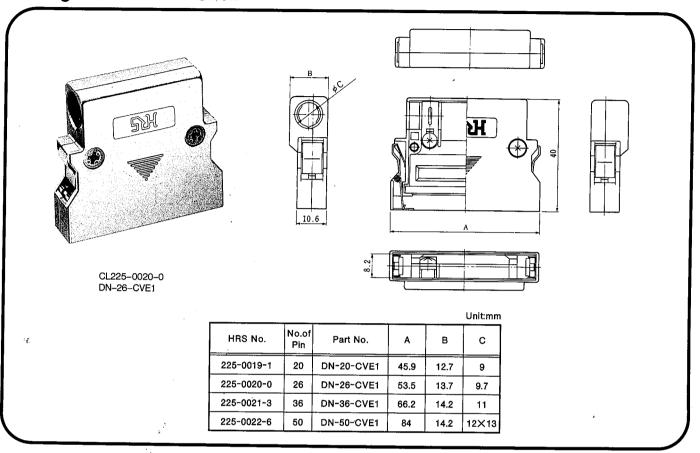
Crimp Pin Housing



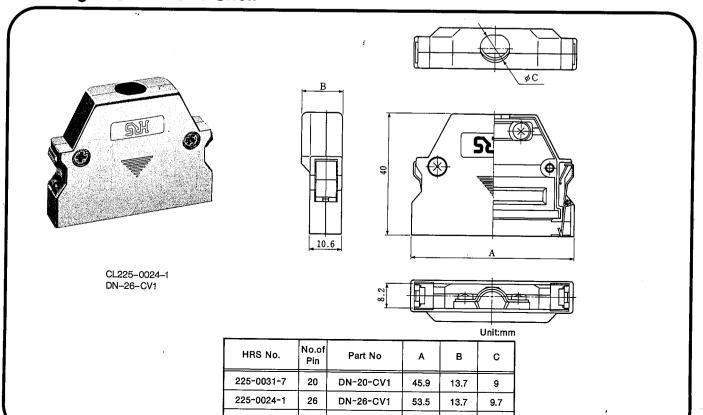
IDC Plug



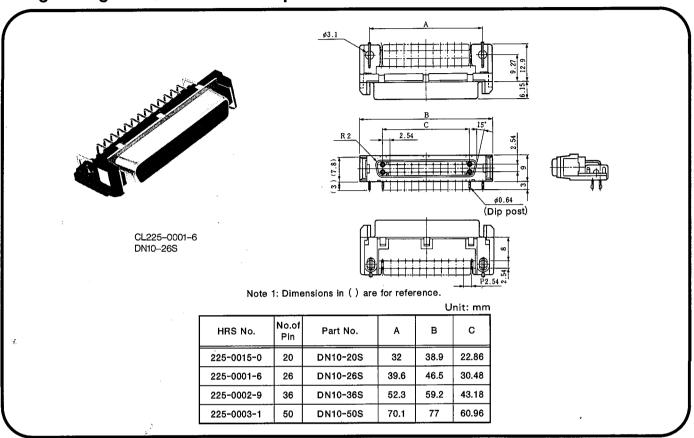
Angle Cable Exit Shell



Straight Cable Exit Shell

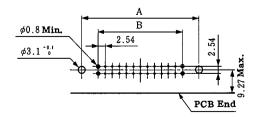


Right Angle P.C. Mount Receptacle



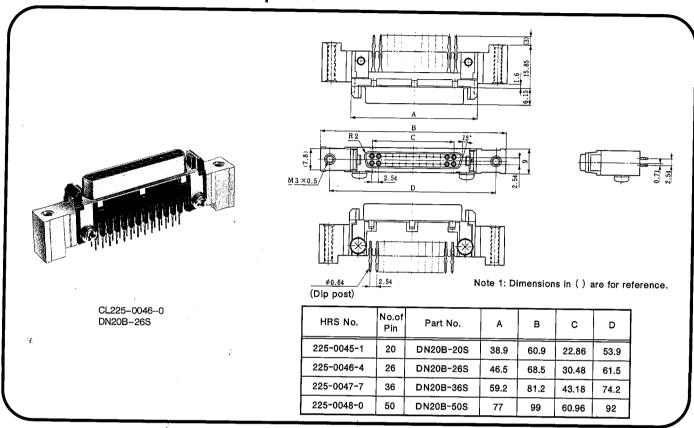
PCB Layout

mounting panel thickness 1.6mm

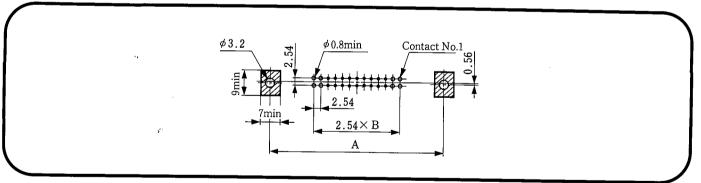


			Ų	Jnit: mm
No. of Pin	20	26	36	50
Α	32.0	39.6	52.3	70.1
В	22.86	30.48	43.18	60.96

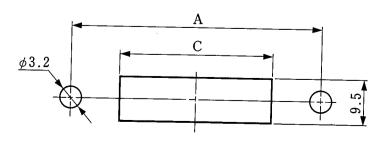
Straight P.C. Mount Receptacle



PCB Layout



Panel Cutout



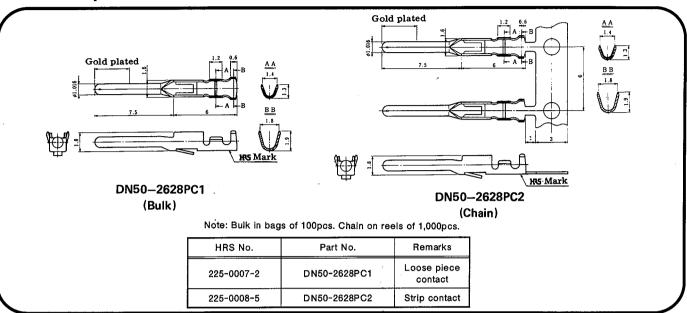
Note: 1. Use a 1.6-mm thick panel

- 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

Unit:mm

No.of Pin	Α	В	С
20	53.9	9	40.9
26	61.5	12	48.5
36	74.2	17	61.2
50	92	24	79

Pin Crimp Terminal



Applicable Wire

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

Outer diameter of applicable wire

				Unit: mm
Way	20	26	36	50
Outer diameter	Max. 9.0	Max. 9.7	Max. 11.0	Max. 12.0

Tooling (for Crimp Plug)

• CM-105 Crimp Machine

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 SOURCE	AC 100V 200W
TOTAL WEIGHT	75 kgs
PERFORMANCE	2,000 — 4,000 crimps per hour
WORK RANGE	Adaptable to other HIROSE dies



Semi-Auto Machine

CM-105 (CL901-0005-4) Applicator (Die) 105-DN50 (CL901-0208-1)



Hand Tool

DN50-TA2628HC (CL250-0101-0)

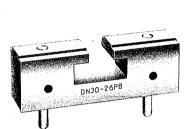
Tooling (for IDC Plug)





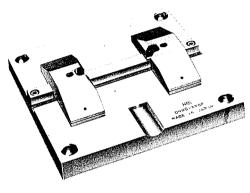
HRS No.	Part No.
550-0082-2	Hi-Flex termination press and accessories

Pressure Block



HRS No.	Part No.
902-0068-0	DN30-26PB
902-0069-3	DN30-36PB
902-0143-4	DN30-20PB
902-0144-7	DN30-50PB

Universal Guide Plate



HRS No.	Part No.
902-0067-8	DN30-XXGP

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 ratchettype device ensures against misconnections.
- Prevents damage to connectors during connection.
 The guide plate works as a stopper to prevent damage to connectors due to connection pressure.
- 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.

