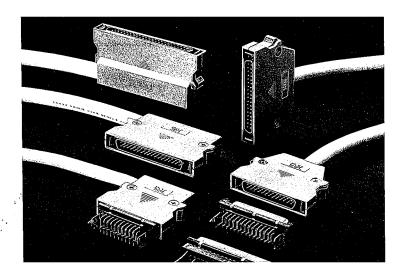
# DN SERIES-NEW D SUBMINIATURE INTERFACE CONNECTORS

#### 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 areshieled 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.
- 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 aginst 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.

### **Applications**

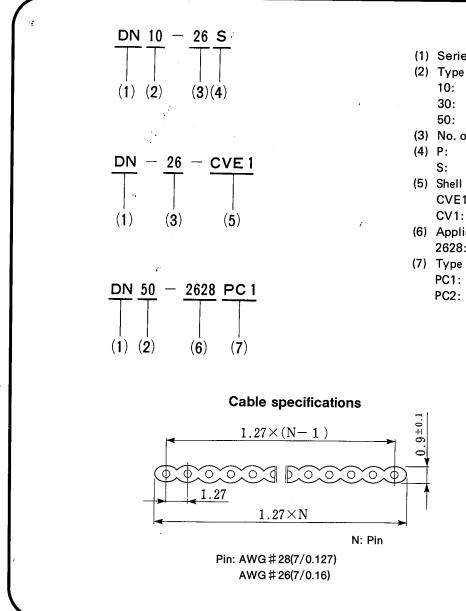
Office Automation, Computers, Communications Equipment, Factory Automation, Home Automation and other commercial applications needing high density interconnections.

## **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

## **Ordering Information**



- (1) Series Number: DN
- - 10: Right Angle Dip Type
  - 30: IDC Plug Type
- 50: Crimp Type
- (3) No. of Pins: 20, 26, 36 and 50 way
- Plug
  - Receptacle
  - CVE1: Angle Cable Exit Shell Straight Cable Exit Shell CV1:
- (6) Applicable Wire 2628: AWG#26~AWG#28
- (7) Type of Contact Pin
  - **Bulk Pin Contact**
  - **Chain Pin Contact**

#### **Crimp Pin Housing** 2.54 R2.2 2.5 TE CL225-0004-4 DN50-26P 6.5 Unit: mm No.of в С HRS No. Part No. Α Pin 31.38 35.36 22.86 225-0016-3 20 DN50-20P DN50-26P 42.98 30.48 39 225-0004-4 26 225-0005-7 36 DN50-36P 55.68 43.18 51.7 60.96 69.48 225-0006-0 50 DN50-50P 73.46

### **IDC** Plug

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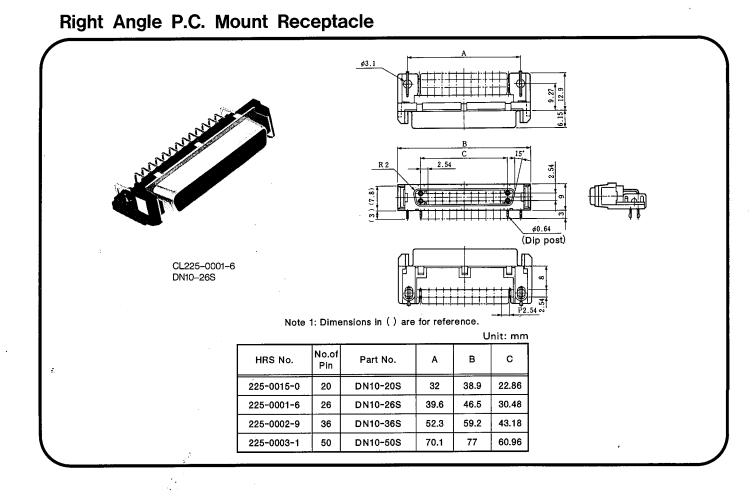
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Unit: mm HRS No. No.of Part No. A B C 225-0030-4 20 DN30-20P 35.36 29.1 31.38					f f	<u> </u> ]			
HRS No. No.of Pin Part No. A B C   225-0030-4 20 DN30-20P 35.36 29.1 31.38						- <del>) RS  </del>			
225-0030-4 20 DN30-20P 35.36 29.1 31.38	Г	HRS No.	No.of	Part No.	A				
225-0029-5 26 DN30-26P 42.98 36.7 39		225-0030-4		DN30-20P	35.36	29.1	31.38		
	-	225-0029-5	26	DN30-26P	42.98	36.7	39		
225-0027-0 36 DN30-36P 55.68 49.4 51.7 225-0028-2 50 DN30-50P 73.46 67.2 69.48								,	

Angle Cable Exit St	nell								
			¢C			A A			
CL225-0020-0 DN-26-CVE1			8.2				T		
						Unit:mm	1		
4.	HRS No.	No.of Pin	Part No.	A	В	с			
	225-0019-1	20	DN-20-CVE1	45.9	12.7	9			
	225-0020-0	26	DN-26-CVE1	53.5	13.7	9.7			
	225-0021-3	36	DN-36-CVE1	66.2	14.2	11			
L s L	225-0022-6	50	DN-50-CVE1	84	14.2	12×13		-	

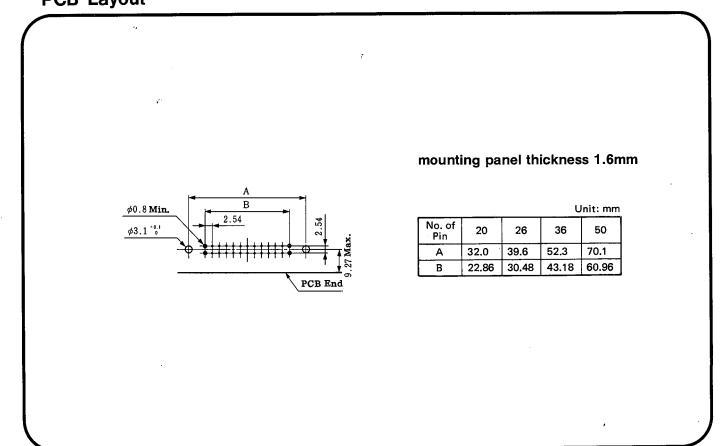
## Straight Cable Exit Shell

CL225-0024-1 DN-26-CV1					$\sim$		
· · · ·	HRS No.	No.of Pin	Part No	А	В	с	
	225-0031-7	20	DN-20-CV1	45.9	13.7	9	
	225-0024-1	26	DN-26-CV1	53.5	13.7	9.7	,
	225-0025-4	36	DN-36-CV1	66.2	14.2	11	j j

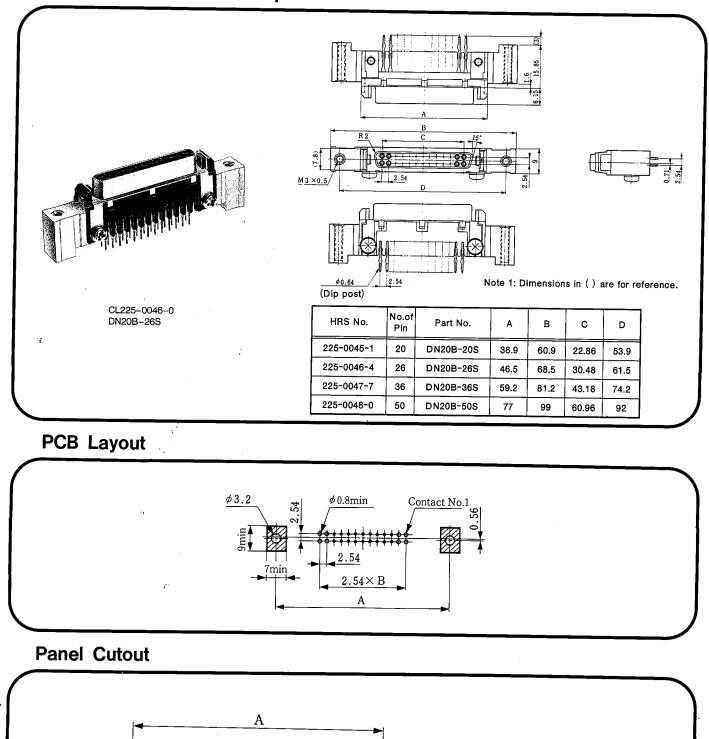
Downloaded fibre <u>Scodis.com</u> electronic components distributor

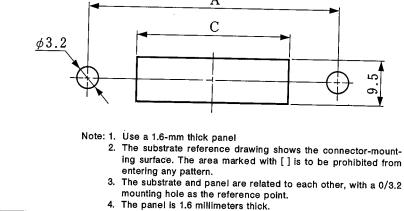


**PCB** Layout









No.of Pin	A	в	с
20	53.9	9	40.9
26	61.5	12	48.5
36	74.2	17	61.2
50	92	24	79

Unit:mm

#### **Pin Crimp Terminal** Gold plated Gold plated HS Mark DN50-2628PC1 DN50-2628PC2 (Bulk) (Chain) Note: Bulk in bags of 100pcs. Chain on reels of 1,000pcs. HRS No. Part No. Remarks Loose piece 225-0007-2 DN50-2628PC1 contact 225-0008-5 DN50-2628PC2 Strip contact

## «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-touse 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

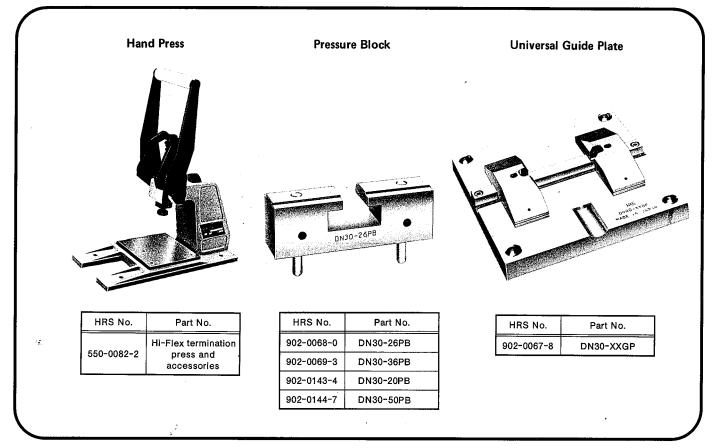


CM-105 (CL901-0005-4) Applicator (Die) 105-DN50 (CL901-0208-1)



Hand Tool DN50-TA2628HC (CL250-0101-0)

## 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 ratchettype 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.