DX Series

Materials

Connector shell _ _ _ Mild steel
Connector moulding _ Thermoplastic UL94VO

Contacts _ _ _ _ _ _ _ Turned copper alloy

Plating, shells _ _ _ _ Zinc/yellow passivate or electro tin

Contacts _ _ _ _ _ _ _ Hard acid gold on nickel

Performance

Operating temperature _ _ - 55 °C to + 125 °C
Working voltage _ _ _ _ _ _ 500V DC or AC peak at sea level
Proof voltage _ _ _ _ _ _ _ 500V DC or AC peak

Contact resistance _ _ _ _ 10 mohm
Working current _ _ _ _ _ _ 7.5A per contact in isolation
5.0A all contacts simultaneously
Insulation resistance _ _ _ 10^6 Mohm
Mechanical endurance _ _ 500 operations

FDX Series

A filtered version of the DX connector, and dimensionally identical. For performance parameters see page 8.

Materials

Connector shell _ _ _ Mild steel
Connector moulding _ Thermoplastic UL94VO
Contacts _ _ _ _ _ _ _ Turned copper alloy

Plating, shells _ _ _ _ Electro tin on nickel
Contacts _ _ _ _ _ _ _ Hard acid gold on nickel

DN Series

Materials

Connector shell _ _ _ Mild steel
Connector moulding _ Monobloc, Thermoplastic UL 94 VO

Contacts _ _ _ _ _ _ _ Turned copper alloy

Plating, shells _ _ _ _ Zinc/yellow passivate or nickel
Contacts _ _ _ _ _ _ _ Hard acid gold on nickel

Performance

Operating temperature _ -55 °C to + 90 °C
Working voltage _ _ _ _ _ 250V AC rms
Proof voltage _ _ _ _ _ _ 1000V AC rms at sea level
Contact resistance _ _ _ <5 mohm

Working current _ _ _ _ _ 7.5A per contact in isolation
5.0A all contacts simultaneously

Insulation resistance _ _ 10^6 Mohm
Mechanical endurance _ 500 operations

DH Series Hermetic Ds

Materials

Connector shell _ _ _ Steel
Seal _ _ _ _ _ _ _ _ _ Boro silicate glass
Contacts _ _ _ _ _ _ _ Steel, nickel, cobalt alloy

Plating, shells _ _ _ _ 4µ silver tin alloy
Contacts _ _ _ _ _ _ _ Hard acid gold on nickel (or tin on nickel also available on request) (Shells also available zinc/passive or nickel plate on request)

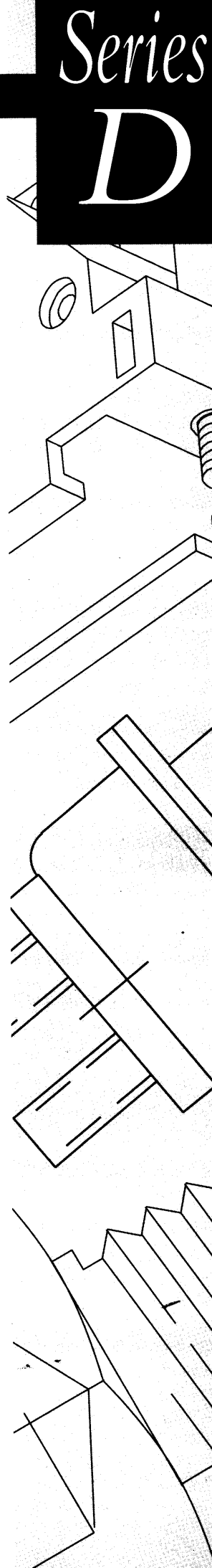
Performance

Operating temperature _ -55 °C to + 175 °C
Working voltage _ _ _ _ _ 250V AC rms
Proof voltage _ _ _ _ _ _ 750V AC rms

Contact resistance _ _ _ 10mΩ
Working current _ _ _ _ _ 5.0A all contacts simultaneously

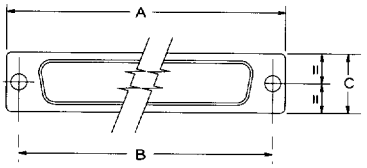
Insulation resistance _ _ 5000MΩ at 500v DC

Leakage _ _ _ _ _ _ _ _ _ <10^4 cm^3 at 1 atmosphere of helium

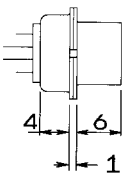


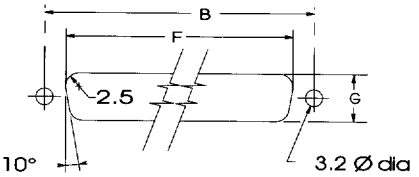
OUTLINE DIMENSIONS

Shell Dimensions

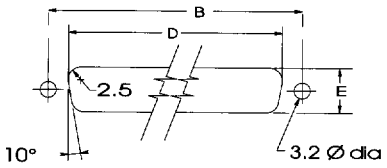


Panel Cut Out

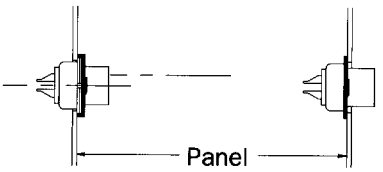




Rear Mounting

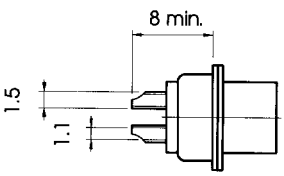


Front Mounting

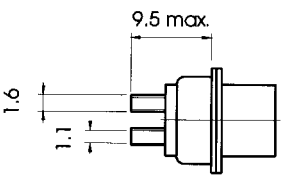


Shell Size	A-0.2	B±0.1	C-0.2	D±0.2	E±0.2	F±0.2	G±0.2
9 way	30.8	25.0	12.4	22.2	13.0	20.5	11.4
15 way	39.2	33.3	12.4	30.5	13.0	28.8	11.4
25 way	53.1	47.0	12.4	44.3	13.0	42.5	11.4
37 way	69.5	63.5	12.4	60.7	13.0	59.1	11.4
50 way	67.0	61.1	15.4	58.3	15.8	56.3	14.1

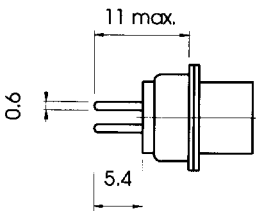
Contact Terminations



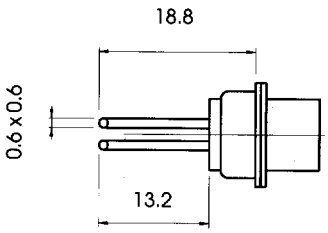
Z
Solder Bucket



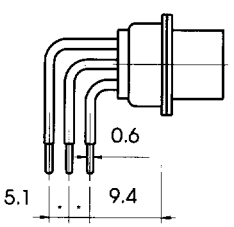
X
Crimp DN Series



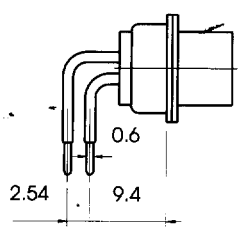
Y
Straight Flow Solder



W3
Wire Wrap



YC
Right Angle Flow Solder
(3 row: 50 ways)



YC
Right Angle Flow Solder
(2 row: 9-37 ways)

CONTACT LAYOUT & IDENTIFICATION

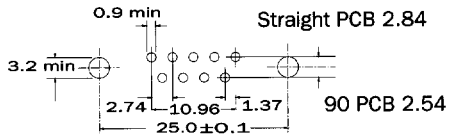
Series D

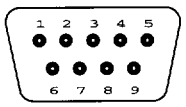
Board Drilling Detail

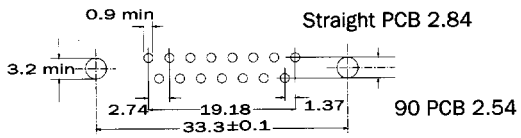
Dimensions shown in mm
AA' = reference axis.
Positional tolerance of holes is 0.1mm from theoretical.
*Recommended hole: 0.8 to 1mm.
Pitch between rows is 2.54mm for YC termination connectors.

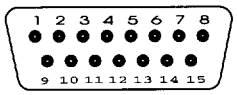
Contact Identification

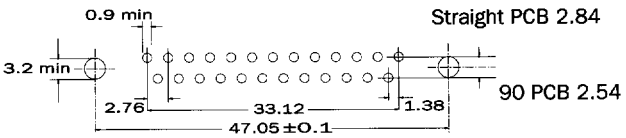
Male Connectors mating face.
Female Connectors wiring face.

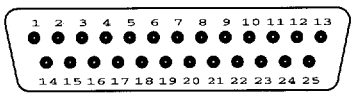


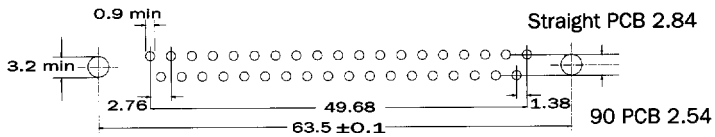


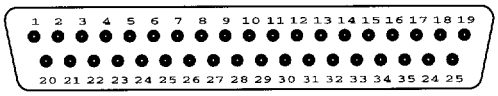


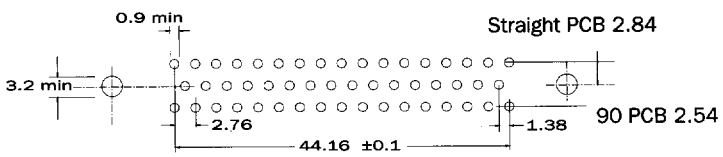


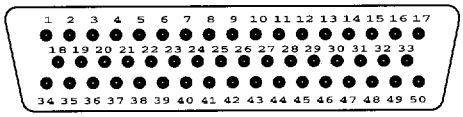


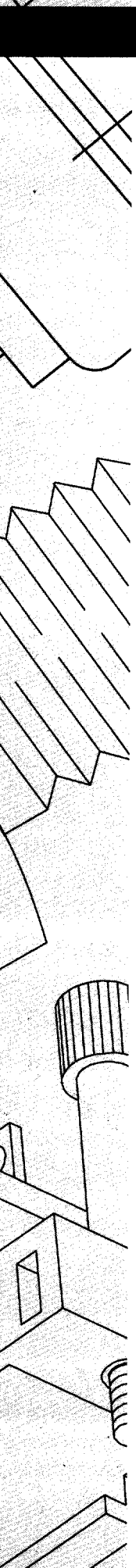












Part Numbers for DX Connectors

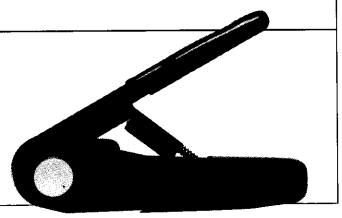
		DX	09	P	Z	TD	00
Series DX							
No. of ways	09, 15, 25, 37, or 50						
Gender	P = plug						
	S = socket						
Contract style	Z = solder bucket						
	Y = straight pcb						
	YC = right angled pcb						
	W3 = wire wrap						
Shell finish	TD = tin/dimple (plug)						
	T = tin finish (socket)						
	Omitted = standard zinc passivate						
* Customer variant - Please consult office							

Part Numbers for DN Connectors

		DN	T	25	S	X	00
Series DN							
Shell finish	T = Tin plated (socket)						
	D = Tin (dimpled), plug only						
	(-) = Plain						
No. of ways	9, 15, 25, 37 or 50						
Gender	P = Plug						
	S = Socket						
	No Contacts						
* Customer variant - Please consult office							

Order connector and crimp contacts separately ie. DN25PX = 25 plug housing
PX/100 = male crimp pins (supplied in bags of 100)
SX/100 = female crimp pins (supplied in bags of 100)

DN TOOLS

Ref. 701	Insertion tool for male and female contacts. Maximum cable Ø including insulation .049 (1.25)	
Ref. 702/3	Removal tool with replaceable head for male and female contacts	
Ref. C202	Replacement tip for contact removal tool	
Ref. 2613-1	Fixed crimp tool for wire gauges 20, 22 and 24 AWG	

Crimp Tool Information

Crimp contacts (insertable and removable) for thermoplastic insulators (DN) only
Type X crimp contacts (insertable and removable) part numbers:
Ref: male contacts PX
Ref: female contacts SX
Both for crimping wire sizes 20, 22, 24, AWG
Crimp bucket in accordance with MS 18281
Crimp tools conform to MIL -T -22520

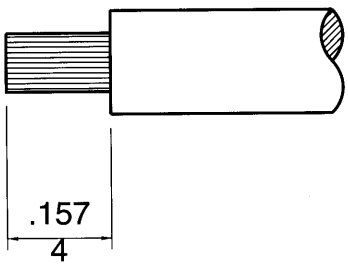

SX


PX

Order code: PX/100-pin
SX/100-socket

Preparing for Crimp Contacts

Wire stripping.
Strip cable insulation as shown in the illustration.



Contact Crimping

Insert crimp contact (SX or PX) into the tool and push stripped cable into the contact bucket.
Close the crimp tool fully.
The tool will only release when the crimp is completed.