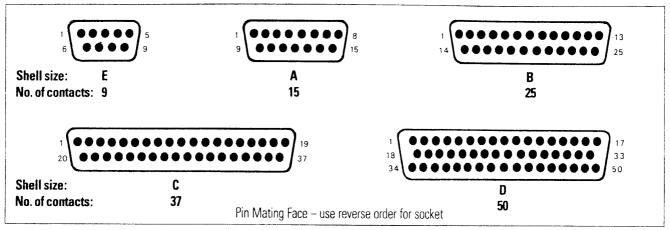


Standard contact arrangements / Layout



Plating Specification

Performance Level	Performance	Comments
1	500 matings minimum followed by 21 day industrial atmosphere test and 21 day damp heat test to BS 2011	Exceeds DIN class 2
2 3	250 matings minimum followed by 21 day damp heat test and 4 day industrial atmosphere test 250 matings minimum followed by 21 day damp heat at 93% relative humidity to BS 21011 Net contact resistance will not then exceeds 5 milliohms	Meets DIN class 2 Exceeds DIN class 3

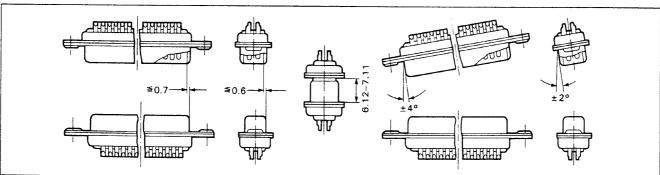
Shell Finish

The traditional finish for D connector shells is zinc plating with a yellow chromate passivation.

However, to meet the requirements of FCC Docket 20780, VDE NORM 0871 and BS 6527 the mated connector shells need to make positive electrical contact. This is achieved by grounding indents on the plug shells and by plating the shells with bright tin.

Alternative shell finishes and materials are available e.g. nickel plated mild steel and gold plated brass. Please contact sales office for specific requirements.

Mating Details

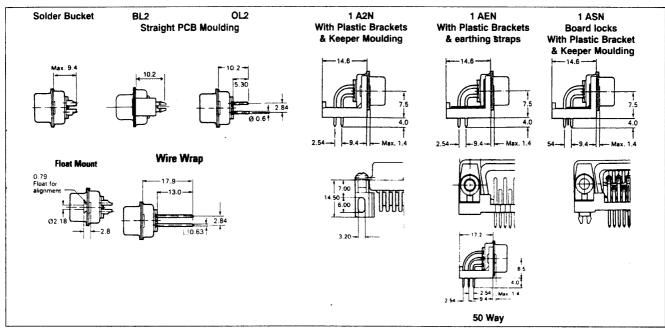


Mounting table

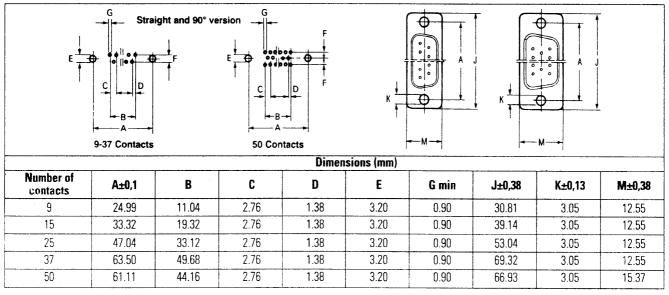
Туре	Mounting Description	Туре	Mounting Description
В	4-40 rivnut rear panel mount	BL2	Vertical board lock straight PCB Connectors
Р	M3 rivnut rear panel mount	1A1N	Plastic Brackets
D	fitted with D-20418-0 female screwlocks	1A2N	Rivetted Kooper Mould
_		1A3N	Metal Brakets used with B, P or D above
E	4-40 clinch out rear panel mount, vibration feature	1AEN	Keeper Mould and earthing starp used with B, P, or D above.
Υ	Universal Float Mount	1ASN	Keeper Mould, earthing strap and boardlocks used with B, P or D



Dimensions for D Subminiature Connectors

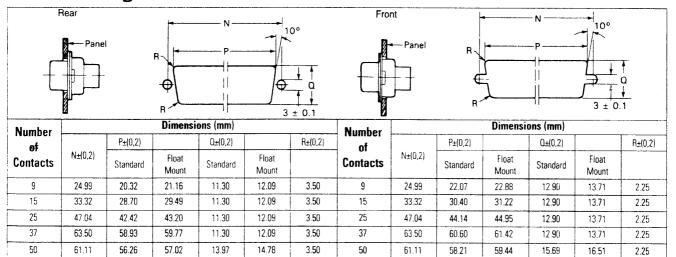


PCB Mounting Details



F -2,84mm For Straight PCB Mount Versions / 2,54mm For 90° PCB Mount Versions

Panel Mounting



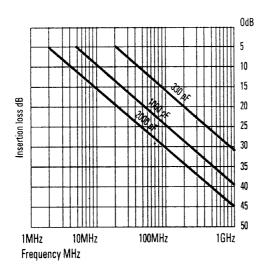


FILTER D CONNECTORS

CINCH has been producing filter connectors for years and has acquired an in depth knowledge of EMC protection. CINCH offers fast delivery on a wide range of standard filtered connectors and will be your partner to design the product you need to meet European and FCC regulations.

Features

- The Cinch Filter D Sub is a high quality turned pin contact connector.
- Tubular capacitors are individually inserted on each contact.
- The encapsulation of capacitors is made with epoxy for maximum resistance to hazardous environments.
- Cinch filter D Sub have the same size and footprint as standard D Sub connectors.
- Meets the relevant dimensional requirements of CECC 73301-802, MIL-C 24308, DIN 41652, BS 9523 F0013, BT 217, HE501.
- Bright tin or nickel finish with grounding indent for EMI/RFI shielding.



Typical performance relates to 50 Ω system Mil -Std. - measured at 1 KHz 0.1 rms

1-1000 pF

2-2000 pF

3-330 pF

Technical Data

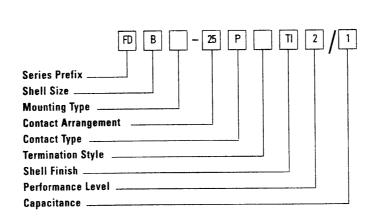
Termination options	Solder bucket, Flow solder, Straight & 90°, Mini wrap.					
Number of contacts	9	15	25	27	50	
Maximum insertion and extraction force	30	50	83	123	167N	
Performance level	1,2 & 3					
Wire accomodation	≤ 0,5 mm²					
Plug contact material	Copper alloy					
Socket contact material	Copper alloy					

5A
0 pF and 2000pF ToI + 80% -20%
200 V d.c. or a.c. peak
5 m Ω max
≥ 5 x 109 Ω
-25° to + 85°
High impact Epoxy & GF Polyester UL94V-0 rated
Steel-Bright tin finish with grounding indents on plugs

FILTER D CONNECTORS



Part Numbering



- Filtered D (Standard Prefix) Series Prefix E, A, B, C or D (All Standard) Shell Size

Mounting Type

- 4-40 rivnut for rear panel mounting (Standard) - M3 rivnut for rear panel mounting

- With female screw locks fitted

- 4-40 clinch-nut for rear panel mounting with locking feature for high vibration applications

- Float mount for rear panel mounting

- Universal float mount

- Ø 3.05 mm mounting hole (Standard)

90° Flow Solder versions are not available with

float mounts

Contact Arrangement 9, 15, 25, 37 or 50 (Ali Standard)

Contact Type Terminaison Style

90° How Solder

P or S (Both Standard)

- Without brackets (Standard) **European Footprint** 1AON

- With plastic brackets and keeper moulding

1AEN - With earthing straps on plastic brackets (Standard) with keeper moulding*

1ASN - With board locks, earthing straps, plastic (Standard) bracket and keeper moulding*

For reverse orientation of contacts relative

to shell, replace N with R...

*Please specify rivnuts or screw locks, mounting types B, P, or D (rivnuts Standard)

- Termination 0.6 mm, 5.3 mm long (Standard) Straight Flow Solder

- As OL2 with vertical Boardlocks 4/40 threads BL2

F179A - 0.61 mm square section pins for up to 3 wrap.

Solder Bucket No designation required (Standard)

Shell Finish - Bright tin (Standard) T

- Bright tin with grounding indents (plugs only) TT

- Nickel on rear shell

(Standard)

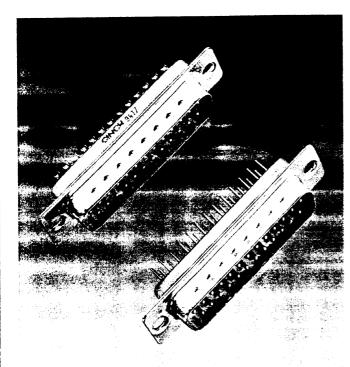
- Exceeds Din Class 2 Performance

- Din Class 2 (Standard)

- Exceeds DIN Class 3

- 1000 pF Capacitance - 2000 pF

- 330 pF



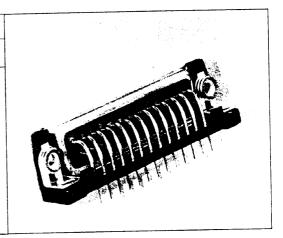


Best Sellers

FILTERED D

Solder Bucket

Number of	Performance	Capacitance	Plug	Socket	
Contacts	Level	Value	Tin/Nickel Indent Plated Shell	Tin/Nickel Plated Shell	
9	2	330pf	FDE-9PTI2/3	FDE-9ST2/3	
15	2	1,000pf 330pf	FDE-9PTI2/1 FDA-15PTI2/3	FDE-9ST2/1 FDA-15ST2/3	
25	2	1,000pf 330pf	FDA-15PTI2/1 FDB-25PTI2/3	FDA-15ST2/1 FDB-25ST2/3	
	2	1,000pf	FDB-25PTI2/1 FDC-37PTI2/3	FDB-25ST2/1 FDC-37ST2/3	
37	2 2	330pf 1,000pf	FDC-37PTI2/1	FDC-37ST2/1	
50	2 2	330pf 1,000pf	FDD-50PTI2/3 FDD-50PTI2/1	FDD-50ST2/3 FDD-50ST2/1	



Straight PCB Mount

Straight PCB			Plug	Plug Vertical Boardlock		Vertical Boardlock	
Number of Contacts	Performance Level	Capacitance Value	Tin/Nickel Indent Plated Shell	Tin/Nickel Plated Shell	Tin/Nickel Plated Shell	Plated Shell	
9 15 25 37	2 2 2 2 2 2 2 2 2	330pf 1,000pf 330pf 1,000pf 330pf 1,000pf 330pf 1,000pf 330pf 330pf	FDE-9POL2TI2/3 FDE-9POL2TI2/1 FDA-15POL2TI2/3 FDA-15POL2TI2/1 FDB-25POL2TI2/3 FDB-25POL2TI2/1 FDC-37POL2TI2/3 FDC-37POL2TI2/1 FDC-50POL2TI2/3	FDE-9PBL2TI2/3 FDE-9PBL2TI2/1 FDA-15PBL2TI2/3 FDA-15PBL2TI2/1 FDB-25PBL2TI2/3 FDB-25PBL2TI2/1 FDC-37PBL2TI2/3 FDC-37PBL2TI2/1 FDC-50PBL2TI2/3	FDE-9S0L2T2/3 FDE-9S0L2T2/1 FDA-15S0L2T2/3 FDA-15S0L2T2/1 FDB-25S0L2T2/3 FDB-25S0L2T2/1 FDC-37S0L2T2/3 FDC-37S0L2T2/1 FDC-50S0L2T2/3	FDE-9SBL2T2/3 FDE-9SBL2T2/1 FDA-15SBL2T2/1 FDB-15SBL2T2/1 FDB-25SBL2T2/3 FDB-25SBL2T2/1 FDC-37SBL2T2/3 FDC-37SBL2T2/3	
30	2	1,000pf	FDD-50P0L2TI2/1	FDD-50PBL2TI2/1	FDD-50S0L2T2/1	FDD-50SBL2T2/1	

90° PCB - Plug

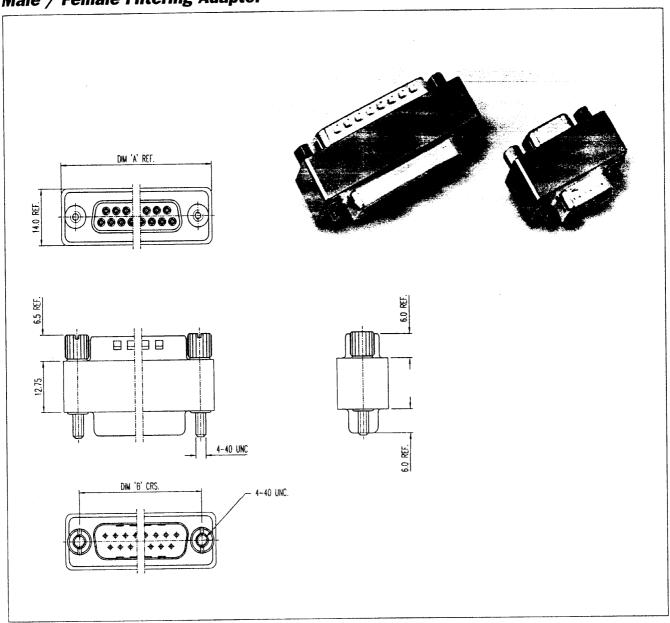
				Open Frame	Earthing Straps	Snap In Boardlock Tin Indent Shell 4–40 Rivnut	
Number of Contacts	Performanc Level	Capacitance Value		Tin/Nickel Indent Plated Shell	Tin Indent Shell 4–40 Rivnut		
	2	330pf		FDE-9P1A0NTI2/3	FDEB-9P1AENTI2/3	FDEB-9P1ASNTI2/3	
9	2	330pi	1,000pf	FDE-9P1A0NTI2/1	FDEB-9P1AENTI2/1	FDEB-9P1ASNTI2/1	
15	2	330pf	1,000p1	FDA-15P1A0NTI2/3	FDAB-15P1AENTI2/3	FDAB-15P1ASNTI2/3	
15	2	330pi	1,000pf	FDA-15P1A0NTI2/1	FDAB-15P1AENTI2/1	FDAB-15P1ASNTI2/1	
25	2 2	330pf	1,000p.	FDB-25P1A0NTI2/3	FDBB-25P1AENTI2/3	FDBB-25P1ASNTI2/3	
23	2 2	330pi	1,000pf	FDB-25P1A0NTI2/1	FDBB-25P1AENTI2/1	FDBB-25P1ASNTI2/1	
37	2 2	330pf	.,300p.	FDC-37P1A0NTI2/3	FDCB-37P1AENTI2/3	FDCB-37P1ASNTI2/3	
3/	2 2	Joohi	1,000pf	FDC-37P1A0NTI2/1	FDCB-37P1AENTI2/1	FDCB-37P1ASNTI2/1	
EO	2 4	330pf	1,000	FDD-50P1A0NTI2/3	FDDB-50P1AENTI2/3	FDDB-50P1ASNTI2/3	
50	2	330hi	1,000pf	FDD-50P1A0NTI2/1	FDDB-50P1AENTI2/1	FDDB-50P1ASNTI2/	

90° PCB - Socket

	T	rformance Capacitance Level Value		Open Frame	Earthing Straps	Snap In Boardlock Tin Indent Shell 4–40 Rivnut	
Number of Contacts	Performan Level			Tin/Nickel Indent Plated Shell	Tin Indent Shell 4–40 Rivnut		
9	2	330pf		FDE-9S1A0NT2/3	FDEB-9S1AENT2/3	FDEB-9S1ASNT2/3	
J	4	2 33001	1,000pf	FDE-9S1A0NT2/1	FDEB-9S1AENT2/1	FDEB-9S1ASNT2/1	
15	2	330pf	1,00001	FDA-15S1A0NT2/3	FDAB-15S1AENT2/3	FDAB-15S1ASNT2/3	
13	_	2	1,000pf	FDA-15S1A0NT2/1	FDAB-15S1AENT2/1	FDAB-15S1ASNT2/1	
ar	2	330pf	1,000p1	FDB-25S1A0NT2/3	FDBB-25S1AENT2/3	FDBB-25S1ASNT2/3	
25	1 -	2 330pi	1,000pf	FDB-25S1A0NT2/1	FDBB-25S1AENT2/1	FDBB-25S1ASNT2/1	
37	2	330pf	1,0000	FDC-37S1A0NT2/3	FDCB-37S1AENT2/3	FDCB-37S1ASNT2/3	
31	_	2 330µ1	1,000pf	FDC-37S1A0NT2/1	FDCB-37S1AENT2/1	FDCB-37S1ASNT2/1	
E0.	2	330pf	1,000р1	FDD-50S1A0NT2/3	FDDB-50S1AENT2/3	FDDB-50S1ASNT2/3	
50	2	აპიტი	1.000nf	FDD-50S1A0NT2/1	FDDB-50S1AENT2/1	FDDB-50S1ASNT2/1	



Male / Female Filtering Adaptor



Technical, Part Numbering Information

	Working Voltage	Proof Voltage	Capacitance To Ground	Capacitance Tolerance	Temperature Range	DIM "A" REF.	DIM "B" Ref.
FA 9 PS/1	DODY DO OD AS DEAK	500V	1000 pF	+80% -20%	-25° +85°C	32.7	24.99
FA 9 PS/3	200V DC OR AC PEAK		330 pF	+50% -20%			
FA 15 PS/1		500V	1000 pF	+80% -20%	-25° +85°C	41.0	33.32
FA 15 PS/3	200V DC OR AC PEAK		330 pF	+50% -20%			
FA 25 PS/1		500V	1000 pF	+80% -20%	250 .0500	54.0	47.04
FA 25 PS/3	200V DC OR AC PEAK		330 pF	+50% -20%	-25° +85°C	54.9	47.04
FA 37 PS/1	1	500V	1000 pF	+80% -20%	050 0500	74.0	00.50
FA 37 PS/3	200V DC OR AC PEAK		330 pF	+50% -20%	-25° +85°C	71.2	63.50

GENERAL SPECIFICATION -- MECHANICAL FLECTRICAL & ENVIROMENTAL PERFORMANCE IN LINE WITH REQUIREMENTS OF DIN CLASS 2