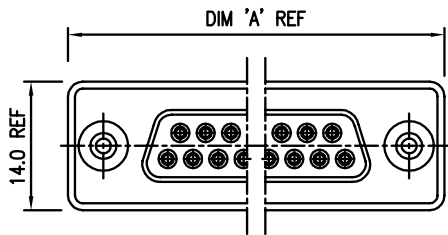
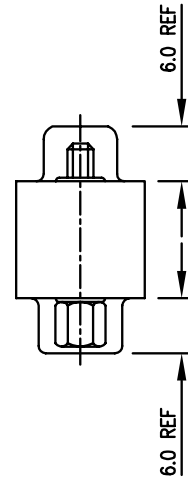
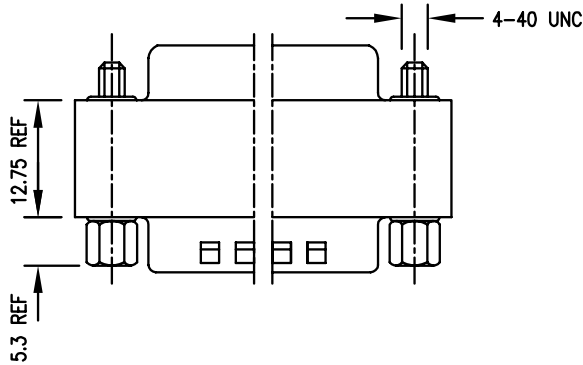
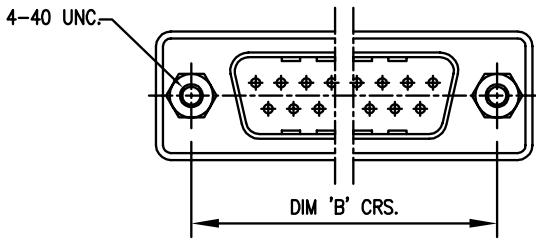


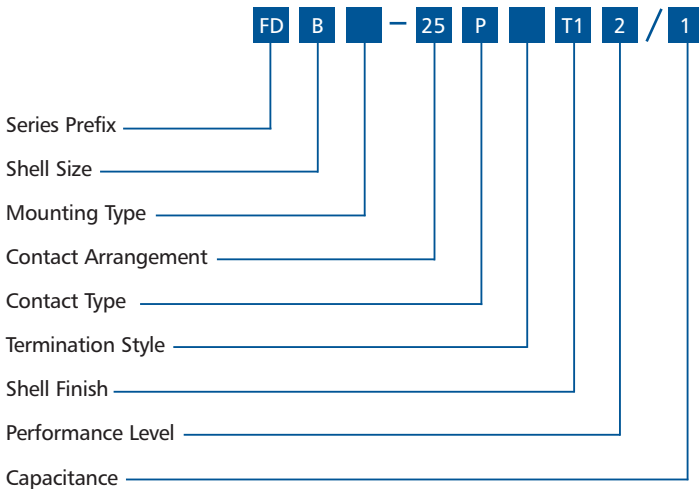
Male/Female Filter Adaptor



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 FA 9 PS/3	200V DC OR AC PEAK	500V	1000 pF	+80% - 20%	-40° +125°C	32.7	24.99
			330 pF	+50% - 20%			
FA 15 PS/1 FA 15 PS/3	200V DC OR AC PEAK	500V	1000 pF	+80% - 20%	-40° +125°C	41.0	33.32
			330 pF	+50% - 20%			
FA 25 PS/1 FA 25 PS/1	200V DC OR AC PEAK	500V	1000 pF	+80% - 20%	-40° +125°C	54.9	47.04
			330 pF	+50% - 20%			
FA 37 PS/1 FA 37 PS/1	200V DC OR AC PEAK	500V	1000 pF	+80% - 20%	-40° +125°C	71.2	63.50
			330 pF	+50% - 20%			

Part Numbering



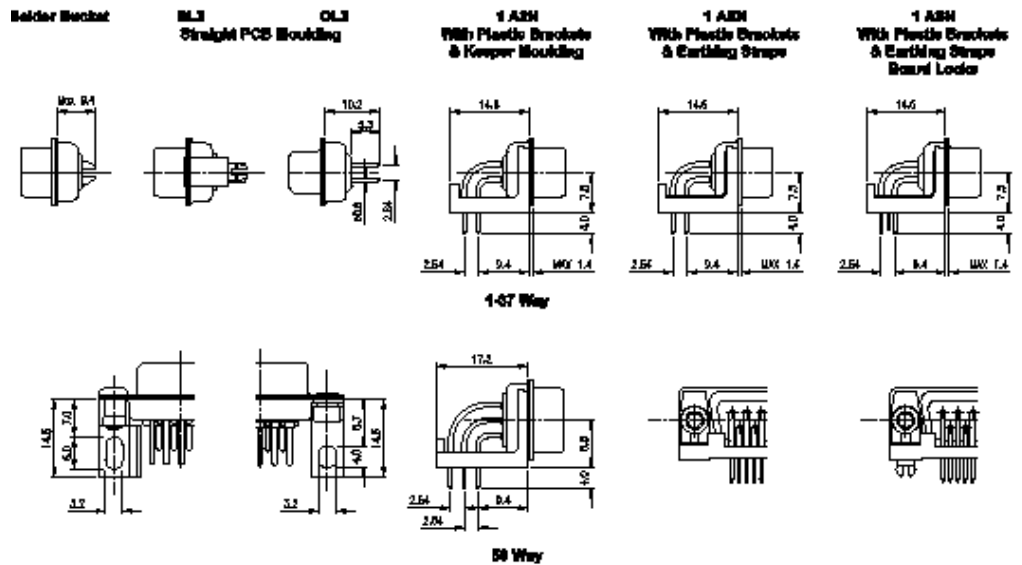
Series Prefix	FD	Filtered D (Standard Prefix)
Shell Size	E,A,B,C or D	(All Standard)
Mounting Type	B	4-40 rivnut for rear panel mounting (standard)
	P	M3 rivnut for rear panel mounting
	D	With female screw locks fitted
	F	Float mount for rear panel mounting
	Y	Universal float mount
	No designation	Ø3,05mm mounting hole (Standard)
Contact Arrangement		90° Flow Solder versions are not available with float mounts
Contact Type		9, 15, 25, 37 or 50 (All Standard)
Termination Style		P or S (Both Standard)
		90° Flow Solder European Footprint
	1A0N	Without brackets (Standard)
	1A2N	With plastic brackets and keeper moulding
	1AEN	With earthing straps on plastic brackets (Standard) with keeper moulding*
	1ASN	With board locks, earthing straps, plastic brackets (Standard) 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)
		50 Way 90° PCB mounting available as 1A0N and 1A2N only
Straight Flow Solder	OL2	Termination 0.6mm. 5.3mm long (Standard)
	BL2	As OL2 with Vertical Boardlocks 4.40 threads
	F179A	0.61mm square section pins for up to 3 wrap
Shell Finish		Solder Bucket. No designation required. (Standard)
	T	Bright tin (Standard)
	TI	Bright tin with grounding indents (plugs only)
Performance Level		Nickel on rear shell (Standard)
	1	Exceeds DIN Class 2
	2	DIN Class 2 (Standard)
Capacitance	3	Exceeds DIN Class 3
	1	1000 pF
	2	2000 pF
	3	330 pF

For Custom or Selectively loaded products specification please consult Cinch Sales Office.

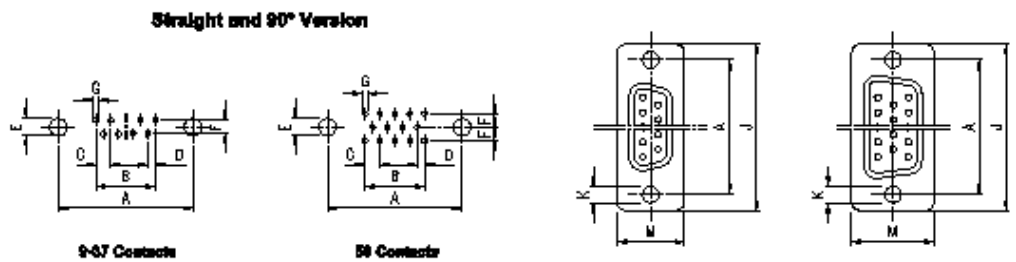
Plating Specification

Performance Level	Performance	Comments
1	500 matings minimum followed by 21 day industrial atmosphere test and 21 day damp heat test to BS2011	Exceeds DIN Class 2
2	250 matings minimum followed by 21 day damp heat test and 4 day industrial atmosphere test	Meets DIN Class 2
3	250 matings minimum followed by 21 day damp heat test at 93% relative humidity to BS21011 Net contact resistance will not then exceed 5 milliohms	Exceeds DIN Class 3

■ Dimensions for Filter D Connectors



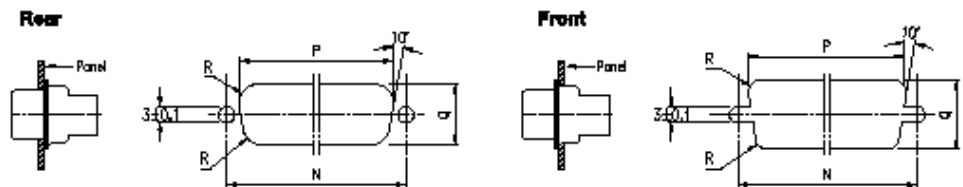
■ PCB Mounting Details



Number of contacts	Dimensions (mm)								
	A±0.1	B	C	D	E	G min	J±0.38	K±0.13	M±0.38
9	24.99	11.04	2.76	1.38	3.20	0.90	30.81	3.05	12.55
15	33.32	19.32	2.76	1.38	3.20	0.90	39.14	3.05	12.55
25	47.04	33.12	2.76	1.38	3.20	0.90	53.04	3.05	12.55
37	63.50	49.68	2.76	1.38	3.20	0.90	69.32	3.05	12.55
50	61.11	44.16	2.76	1.38	3.20	0.90	66.93	3.05	15.37

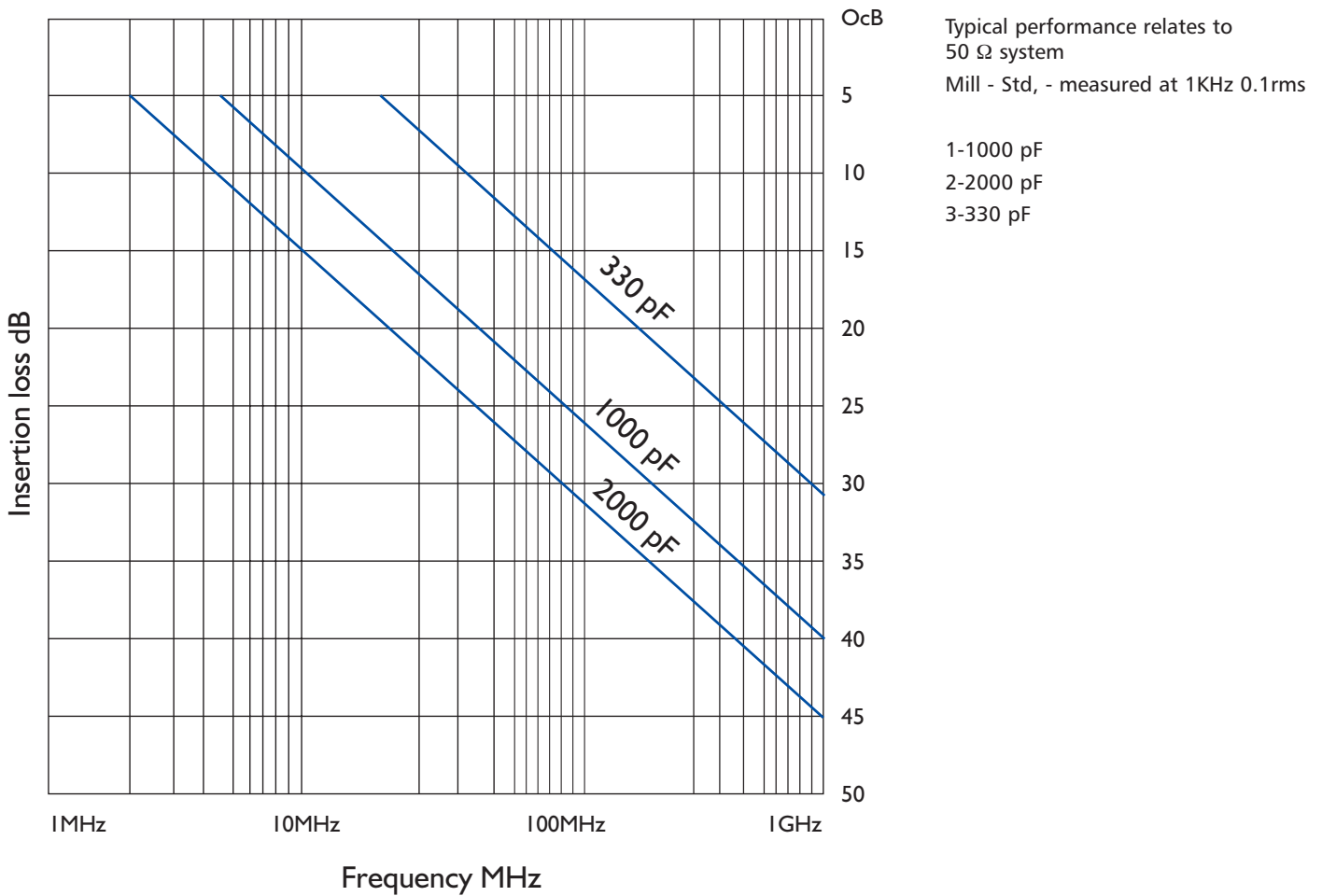
F - 2.84mm for Straight PCB Mount Versions
 - 2.54mm for 90° PCB Mount Versions

■ Panel Mounting



Number of contacts	Dimensions (mm)					
		P± (0.2)		Q± (0.2)		R± (0.2)
	N± (0.2)	Standard	Float Mount	Standard	Float Mount	
9	24.99	20.32	21.16	11.30	12.09	3.50
15	33.32	28.70	29.49	11.30	12.09	3.50
25	47.04	42.42	43.20	11.30	12.09	3.50
37	63.50	58.93	59.77	11.30	12.09	3.50
50	61.11	56.26	57.02	13.97	14.78	3.50

Number of contacts	Dimensions (mm)					
		P± (0.2)		Q± (0.2)		R± (0.2)
	N± (0.2)	Standard	Float Mount	Standard	Float Mount	
9	24.99	22.07	22.88	12.90	13.71	2.25
15	33.32	30.40	31.22	12.90	13.71	2.25
25	47.04	44.14	44.95	12.90	13.71	2.25
37	63.50	60.60	61.42	12.90	13.71	2.25
50	61.11	58.21	59.44	15.69	16.51	2.25

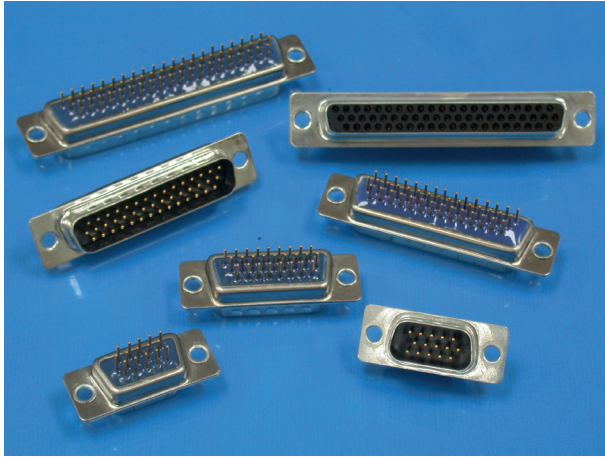


Termination options	Solder bucket Flow solder, Straight & 90°, Mini wrap.
Number of contacts	9 15 25 37 50
Maximum insertion and extraction force	30 50 83 123 167N
Performance level	1, 2 & 3
Wire accommodation	≤ 0,5mm ² (20 Awg)
Plug contact material	Copper alloy
Socket contact material	Copper alloy
Current rating	5A

Capacitance	330 pF, Tol + 50% - 20%, 1000 pF and 2000 pF, Tol + 80% - 20%
Working voltage	200 V d.c. or a.c. peak
Contact resistance	5 X 10 ⁻³ Ω max
Insulation resistance	≤ 5 X 10 ⁹ Ω
Temperature range	-25° to +125°
Insulator materials	High impact Epoxy & GF Polyester UL94V-0 rated
Shell materials	Front: Steel - Bright tin finish (Grounding indents on plugs only) Rear: Steel - Electrolytic nickel finish

For other filtering specification please consult Cinch sales offices

FILTERED HIGH DENSITY D SUB CONNECTORS



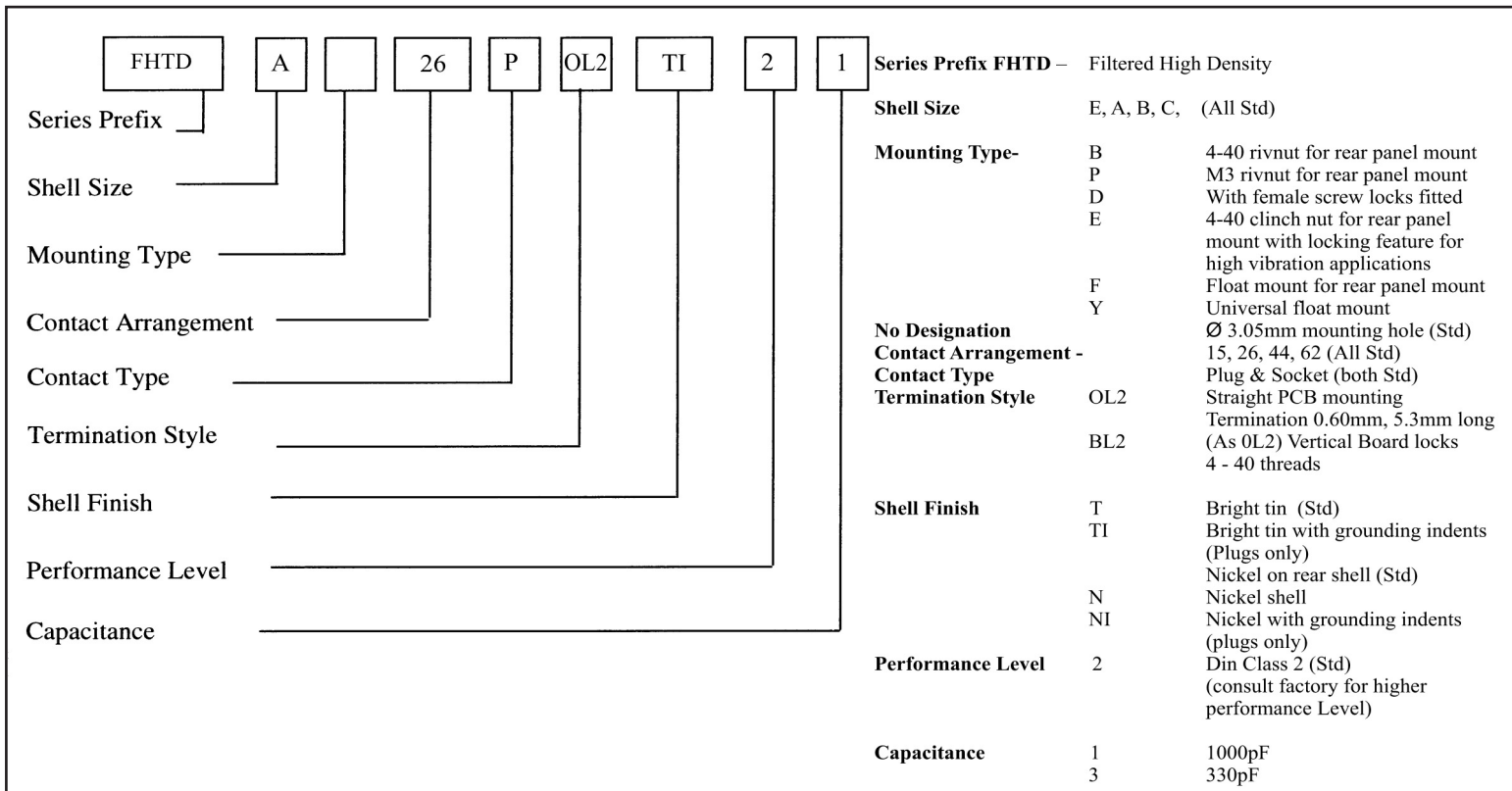
RoHS Compliant
Directive 2002/95/EC

Cinch Filtered High Density Connector offers a higher Contact density to save space but maintains all the benefits of Cinch's high performing Std Filter D Sub Connector range.

Features :

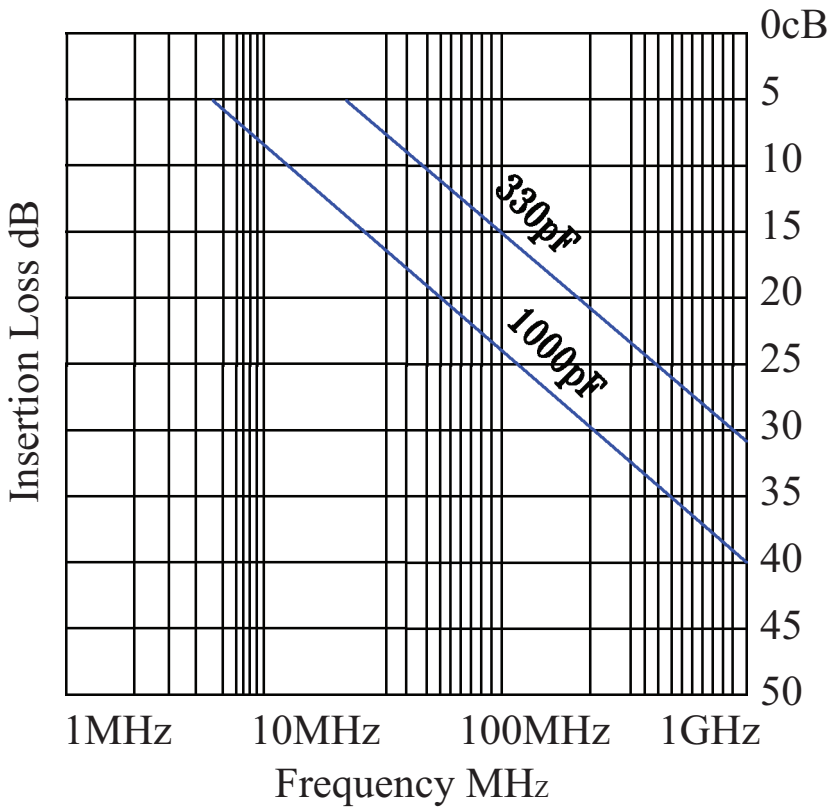
- Cinch High Density Filtered D Sub is a high quality Turned Pin Contact Connector.
- Specially designed for commercial applications where space is critical.
- The encapsulation of filter elements is made with Epoxy for maximum resistance to hazardous environments.
- Cinch High Density Filtered D Sub range have the same size & footprint as the Standard HTD22 D Sub Connectors.
- Accepts Standard Cinch D Sub accessories.
- Compatible to other High Density HTD22 Connectors & variants.
- Bright Tin & Nickel finish shells with grounding indents for EMI / RFI shielding.

Part Numbering



Plating Specification

Performance level	Performance	Comments
2	250 matings minimum followed by 21 day damp heat test & 4 day industrial Atmosphere test.	Meets DIN class 2



0cB Typical performance relates to 50 Ω system.
 Mill-Std, – Measured at 1KHz 0.1rms

1 – 1000pF
 3 – 330pF

Termination options Straight flow solder
 OL2

Number of Contacts 15 26 44 62

Maximum Insertion & Extraction Force 45 76 125 174N

Performance Level 2

Plug Contact Material Copper Alloy

Skt Contact Material Copper Alloy

Shell Materials Front: Steel - Bright Tin finish
 Rear: Steel –Electrolytic
 Nickel finish
 (Grounding indents on Plugs only)

Capacitance 330pF, Tol +50% -20%
 1000pF, Tol +80% -20%

Working Voltage 200V d.c. or a.c. peak

Contact Resistance $5 \times 10^{-3} \Omega$ max

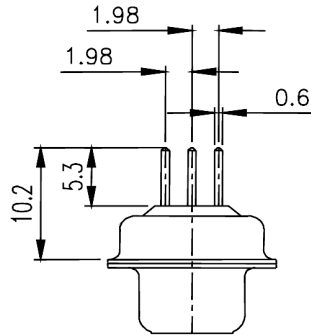
Insulation Resistance $\geq 5 \times 10^9 \Omega$

Insulator Material UL94V-0 rated +
 High impact Epoxy

Current Rating 5A

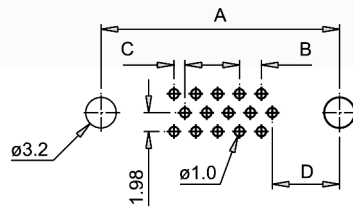
Temperature Range -25°C to +125°C

Dimensions for High Density Filter D Sub Connectors

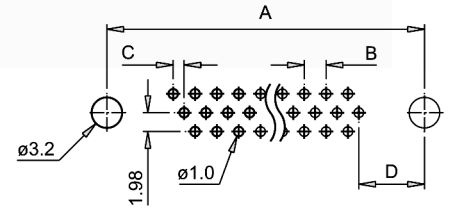


PCB Mounting Details

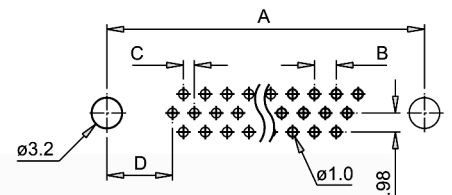
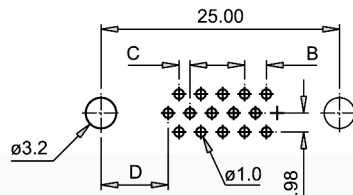
Positive	A	B	C	D
15M / F	25.0	2.29	1.145	7.04
26M / F	33.3	2.29	1.145	6.88
44M / F	47.1	2.29	1.145	6.88
62M / F	63.5	2.41	1.205	7.00



15 Position Female

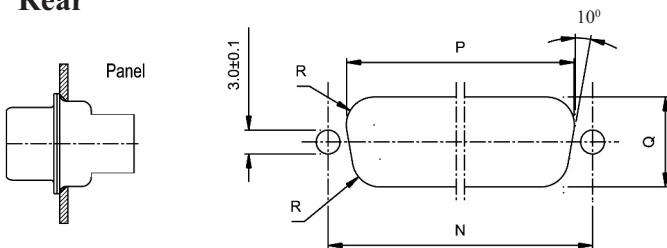


26, 44, 62 Position Female

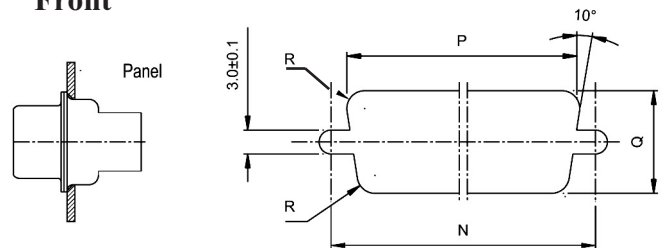


Panel Mounting Details

Rear



Front



Number of contacts	Dimensions (mm)					
	$N \pm (0.2)$	$P \pm (0.2)$		$Q \pm (0.2)$		$R \pm (0.2)$
16	24.99	20.32	21.16	11.30	12.09	3.50
26	33.32	28.70	29.49	11.30	12.09	3.50
44	47.04	42.42	43.20	11.30	12.09	3.50
62	63.50	58.93	59.77	11.30	12.09	3.50

Number of contacts	Dimensions (mm)					
	$N \pm (0.2)$	$P \pm (0.2)$		$Q \pm (0.2)$		$R \pm (0.2)$
15	24.99	22.07	22.88	12.90	13.71	2.25
26	33.32	30.40	31.22	12.90	13.71	2.25
44	47.04	44.14	44.95	12.90	13.71	2.25
62	63.50	60.60	61.42	12.90	13.71	2.25



Proven Excellence

For over 70 years, Cinch has been a reliable supplier of a variety of quality connector products to various industries. We are a multi-national manufacturer with manufacturing facilities in the U.S., U.K. and Mexico.

Cinch has applied its extensive expertise in interconnection technology to engineer and manufacture connectors of various complexities using state-of-the-art technology and tooling. Mechanical design is accomplished using Pro/E® 3D solid modeling and AutoCAD® supported by nonlinear and linear Finite Element Analysis, and Mold Flow software.

Our engineers utilize in-house capabilities in high frequency interconnect simulation, SPICE model generation and high frequency testing to develop the optimum product.

All products are validated in Cinch's First Article, mechanical, electrical, and environmental test facilities ensuring the finished products meet our customers' most stringent specifications.

Simply, your connectors are manufactured in state-of-the-art facilities that are committed to customer satisfaction and continuous improvement.



Cinch Connectors
1700 Finley Road
Lombard, IL 60148 USA
Phone: 1.630.705.6000
1.800.323.9612
Fax: 1.630.705.6060
E-mail: info@cinch.com

Cinch Connectors Ltd.
Shireoaks Road Worksop
S80 3HA
Nottinghamshire, U.K.
Phone: 44.1.909.474131
Fax: 44.1.909.478321
E-mail: info@cinchuk.com