



## PRODUCTS

CIN::APSE  
MICROMINIATURE  
D-SUB

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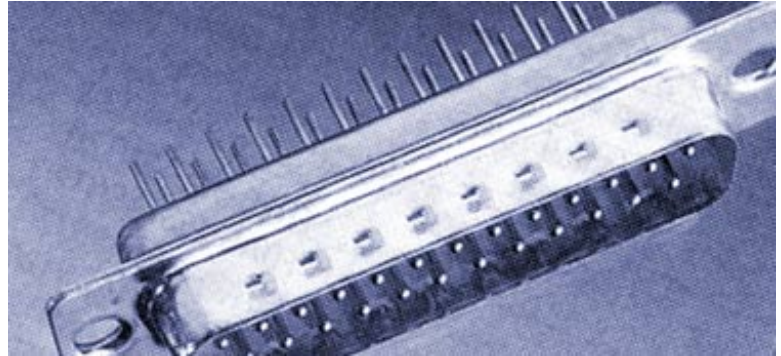
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## FILTER D [INTRODUCTION](#)



**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.

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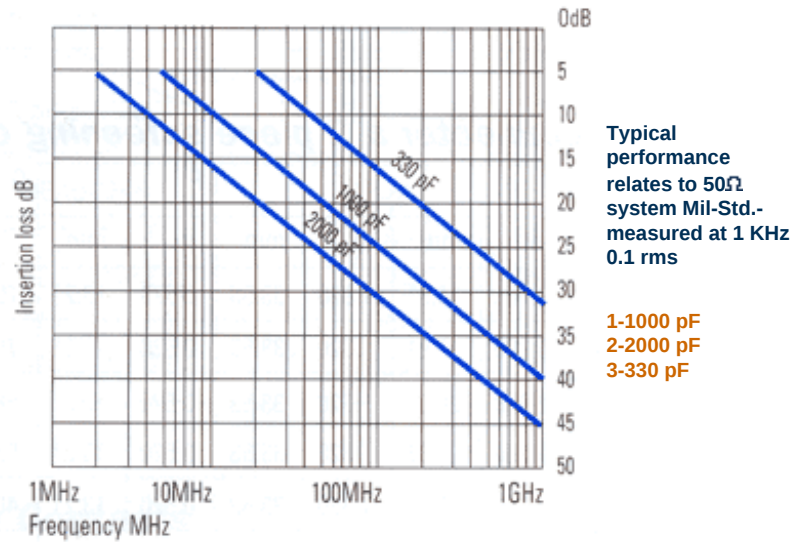
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## FILTER D FEATURES

- 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-DTL-24308, DIN 41652, BS 9523 F0013, BT 217, HE501.
- Bright tin or nickel finish with grounding indent for EMI/RFI shielding



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## FILTER D TECHNICAL DATA

|                                               |                                                                                                           |    |    |     |      |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------|----|----|-----|------|
| <b>Termination options</b>                    | Solder bucket, flow solder, Straight & 90°, Mini wrap.                                                    |    |    |     |      |
| <b>Number of contacts</b>                     | 9                                                                                                         | 15 | 25 | 27  | 50   |
| <b>Maximum insertion and extraction force</b> | 30                                                                                                        | 50 | 83 | 123 | 167N |
| <b>Performance level</b>                      | 1, 2 & 3                                                                                                  |    |    |     |      |
| <b>Wire accommodation</b>                     | ≤ 0.5mm (20AWG)                                                                                           |    |    |     |      |
| <b>Plug contact material</b>                  | Copper alloy                                                                                              |    |    |     |      |
| <b>Socket contact material</b>                | Copper alloy                                                                                              |    |    |     |      |
| <b>Current rating</b>                         | 5A                                                                                                        |    |    |     |      |
| <b>Capacitance</b>                            | 330pF Tol +50%-20%, 1000pF and 2000pF Tol +80%-20%                                                        |    |    |     |      |
| <b>Working voltage</b>                        | 200V d.c. or a.c. peak                                                                                    |    |    |     |      |
| <b>Contact resistance</b>                     | 5 X 10 <sup>-3</sup> ohm max.                                                                             |    |    |     |      |
| <b>Insulation resistance</b>                  | ≥ 5 X 10 <sup>9</sup> ohm                                                                                 |    |    |     |      |
| <b>Temperature range</b>                      | -25°C to +85°C                                                                                            |    |    |     |      |
| <b>Insulator materials</b>                    | High impact Epoxy & GF Polyester UL94V-0 rated                                                            |    |    |     |      |
| <b>Shell materials</b>                        | <b>Front:</b> Steel-Bright tin finish with grounding indents on plugs<br><b>Rear:</b> Electrolytic Nickel |    |    |     |      |

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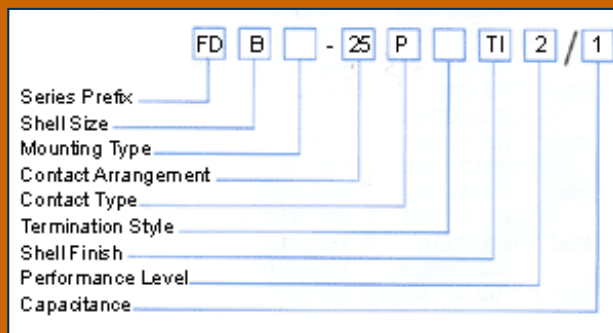
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## FILTER D PART NUMBERING



|                                                         |                                                                                       |                                                                                               |
|---------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Series Prefix</b>                                    | FD                                                                                    | Filtered D (Standard Prefix)                                                                  |
| <b>Shell Size</b>                                       | E,A,B,C, or D                                                                         | (All standard)                                                                                |
| <b>Mounting Type</b>                                    | B                                                                                     | 4-40 rivnut for rear panel mounting (Standard)                                                |
|                                                         | P                                                                                     | M3 rivnut for rear panel mounting                                                             |
|                                                         | D                                                                                     | With female screw locks fitted                                                                |
|                                                         | E                                                                                     | 4-40 clinch-nut for rear panel mounting with locking feature for high vibration applications  |
|                                                         | Y                                                                                     | Universal float mount                                                                         |
|                                                         | No designation                                                                        | Ø3.05mm mounting hole (Standard) 90° Flow Solder versions are not available with float mounts |
| <b>Contact Arrangement</b>                              | 9, 15, 25, 37, or 50                                                                  | (All standard)                                                                                |
| <b>Contact Type</b>                                     | P or S                                                                                | (Both Standard)                                                                               |
| <b>Termination Style</b>                                | 90° Flow Solder                                                                       |                                                                                               |
| <b>European Footprint</b>                               | 1A0N                                                                                  | Without brackets                                                                              |
|                                                         | 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 (Standard) brackets and keeper moulding*           |
|                                                         | * Please specify rivnuts or screw locks, mounting types B, P, or D (rivnuts Standard) |                                                                                               |
| <b>Straight Flow Solder</b>                             | OL2                                                                                   | Termination 0.6mm, 5.3mm long.                                                                |
|                                                         | BL2                                                                                   | As OL2 with vertical Board locks 4/40 threads.                                                |
| <b>Solder Bucket No designation required (Standard)</b> |                                                                                       |                                                                                               |
| <b>Shell Finish</b>                                     | T                                                                                     | Bright tin (Standard)                                                                         |
|                                                         |                                                                                       | Bright tin with grounding indents (plug only)                                                 |
|                                                         | TI                                                                                    | Nickel on rear shell (Standard)                                                               |
| <b>Performance Level</b>                                | 1                                                                                     | Exceeds Din Class 2                                                                           |
|                                                         | 2                                                                                     | Din Class 2 (Standard)                                                                        |
|                                                         | 3                                                                                     | Exceed DIN Class 3                                                                            |



|             |   |        |
|-------------|---|--------|
| Capacitance | 1 | 1000pF |
|             | 2 | 2000pF |
|             | 3 | 330pF  |

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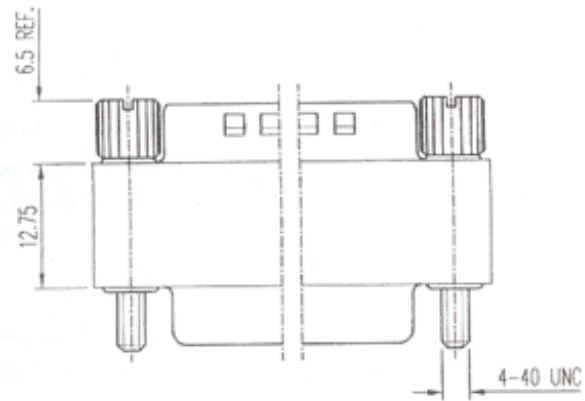
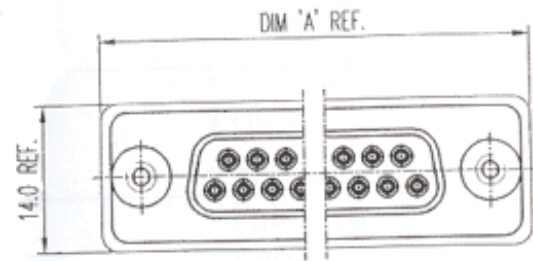
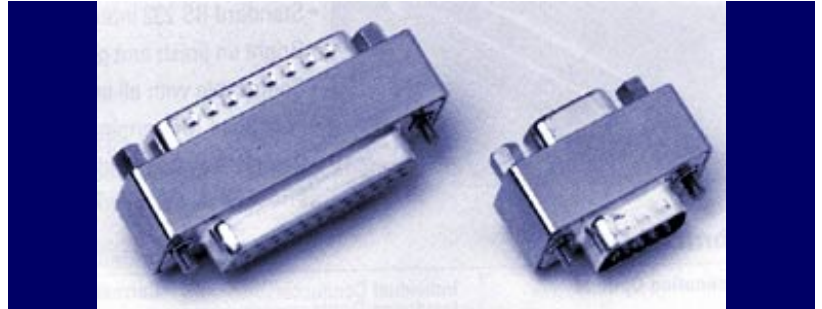
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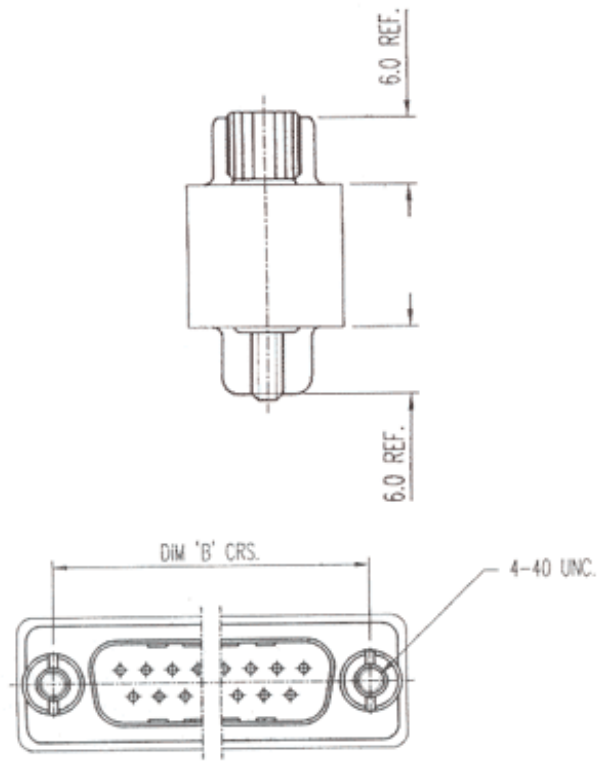
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## FILTER D FILTER ADAPTOR

Male / Female Filtering Adapter





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## FILTER D TECHNICAL INFORMATION

| Part Number | Working Voltage | Proof Voltage | Capacitance To Ground | Capacitance Tolerance | Temperature Range | DIM "A" REF. | DIM "B" REF. |
|-------------|-----------------|---------------|-----------------------|-----------------------|-------------------|--------------|--------------|
| FA9 PS/1    | 200V *          | 500V          | 1000pF                | +80% - 20%            | -25°C to +85°C    | 32.7         | 24.99        |
| FA9PS/3     |                 |               | 330pF                 | +50% - 20%            |                   |              |              |
| FA15 PS/1   | 200V *          | 500V          | 1000pF                | +80% - 20%            | -25°C to +85°C    | 41.0         | 33.32        |
| FA15 PS/3   |                 |               | 330pF                 | +50% - 20%            |                   |              |              |
| FA25 PS/1   | 200V *          | 500V          | 1000pF                | +80% - 20%            | -25°C to +85°C    | 54.9         | 47.04        |
| FA25 PS/3   |                 |               | 330pF                 | +50% - 20%            |                   |              |              |
| FA37 PS/1   | 200V *          | 500V          | 1000pF                | +80% - 20%            | -25°C to +85°C    | 71.2         | 63.50        |
| FA37 PS/3   |                 |               | 330pF                 | +50% - 20%            |                   |              |              |

\*DC or AC PEAK

**GENERAL SPECIFICATION** - MECHANICAL, ELECTRICAL & ENVIRONMENTAL PERFORMANCE IN LINE WITH REQUIREMENTS OF DIN CLASS 2

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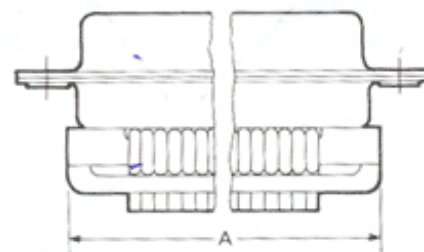
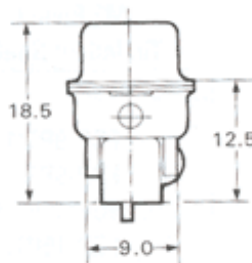
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## IDC FEATURES



- High speed mass termination
- Low profile
- Steel shell for maximum strength
- Strain relief included
- Standard RS 232 interface
- UL 94V-0 rated insulators & strain relief
- Bright tin finish & grounding indents for EMI/RFI shielding
- Compatible with all other D Subminiatures
- Backshell & jack screws available.



| Number of Contacts | A    |
|--------------------|------|
| 9                  | 20.2 |
| 15                 | 28.6 |
| 25                 | 42.3 |
| 37                 | 58.8 |

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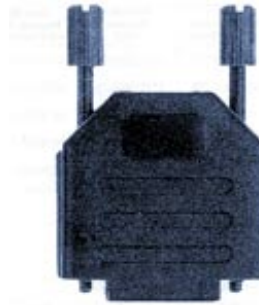
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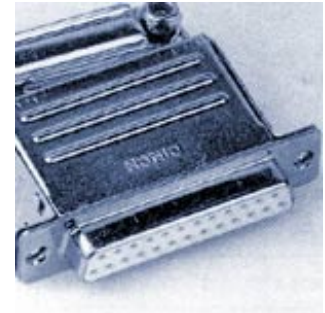


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