

## Circular Miniature (CM) and Dual In-line (DIL) Feedthroughs



### 2.1 CM FEEDTHROUGHS

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12 and 19 Pin Circular Miniature Feedthroughs  
6 Pin High Current Versions  
Flanged versions CF and weldables



### 2.1 CM SETS

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Circular Miniature Feedthrough Sets  
12 and 19 pin types  
6 Pin high current types  
include Air and Vacuum Sockets



### 2.3 CM: CONNECTORS

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Industry standard air side sockets  
PEEK vacuum side sockets



### 2.4 CM: IN-VACUUM CABLES

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Vacuum ready cables for the Circular Miniature Feedthroughs  
with housing and strain relief,  
optional with shielding



### 2.5 DUAL IN-LINE (DIL)

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Dual In-line Feedthroughs  
for direct connection to PCBs



### TOOLS FOR CABLE STRIPPING AND CRIMPING

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## 12 & 19 Pin Circular Miniature Feedthroughs 6 Pin High Current versions

Based on the shell size of DIN connectors, Allectra offers compact feedthroughs with 12 and 19 Pins. Additionally a 6 way High Current version is available. The Industry Standard Air Side connectors are shielded and EMC compliant.

All Air Side Connectors are screw-on type.

If used with the Vacuum Side Housing, a fully shielded connection from air to vacuum is possible.

### Specifications

|              |                                    |
|--------------|------------------------------------|
| Compliance   | IEC60130-9                         |
| Pin Diameter | 1.6mm (6 pin) / 1.0mm (12+19 pin)  |
| Test Voltage | 500V DC (pin to pin / pin to GND)  |
| Current      | 5A (6 pin) /<br>3A (12 and 19 pin) |
| Temp.        | -200°C to 220°C                    |
| Leak rate    | <5x10 <sup>-10</sup> mbar l/s He   |

### Circular Miniature Feedthroughs 6 Pin High Current Versions

| FLANGE | No. OF PINS | PART NUMBER   |
|--------|-------------|---------------|
| WELD   | 6           | 220-CM6       |
| 16CF   | 6           | 220-CM6-C16   |
| 40CF   | 6           | 220-CM6-C40   |
| 40CF   | 12 (2x6)    | 220-CM6-C40-2 |
| 63CF   | 12 (2x6)    | 220-CM6-C63-2 |
| 63CF   | 18 (3x6)    | 220-CM6-C63-3 |

### Circular Miniature Feedthroughs 12 Pin Versions

| FLANGE | No. OF PINS | PART NUMBER    |
|--------|-------------|----------------|
| WELD   | 12          | 220-CM12       |
| 16CF   | 12          | 220-CM12-C16   |
| 40CF   | 12          | 220-CM12-C40   |
| 40CF   | 24 (2x12)   | 220-CM12-C40-2 |
| 63CF   | 24 (2x12)   | 220-CM12-C63-2 |
| 63CF   | 36 (3x12)   | 220-CM12-C63-3 |

### Circular Miniature Feedthroughs 19 Pin Versions

| FLANGE | No. OF PINS | PART NUMBER    |
|--------|-------------|----------------|
| WELD   | 19          | 220-CM19       |
| 16CF   | 19          | 220-CM19-C16   |
| 40CF   | 19          | 220-CM19-C40   |
| 40CF   | 38 (2x19)   | 220-CM19-C40-2 |
| 63CF   | 38 (2x19)   | 220-CM19-C63-2 |
| 63CF   | 57 (3x19)   | 220-CM19-C63-3 |



220-CM12-C40-2  
air side view



Weldable versions: 220-CM19 and 220-CM12  
Required welding diameter is 21.3mm



220-CM12-C16 air side view

The CM Feedthroughs are designed for 16CF flanges. On larger flanges they can be used in combination with other types like Coaxial Feedthroughs or Sub-Ds.

Versions on KF flanges are available on request, smallest flange size is 25KF