2.4 CM: CONNECTORS

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CM Series Air and Vacuum Sockets

PEEK Vacuum Side Sockets

- PEEK UHV Vacuum Side Sockets, 6, 12 or 19 way
- SS Housings with strain relief
- Air Side Sockets 6, 12 or 19 way
- Straight or 90° Air Side Connector
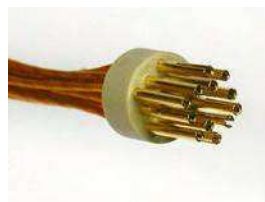
Allectra recommends the use of the housing for handling

Specifications

Vacuum:	UHV
Materials	PEEK, Stainless steel
Current 6 Pin type	5A
Current 12/19 Pin type	3A
Temp.Vacuum Sockets	-200°C to 220°C
Temp. Air Sockets	-25°C to 85°C

Vacuum Sockets including Standard Pins STANDARD type (without housing)

No. OF PINS	TYPE	PART NUMBER
6	STANDARD	220-CON6
12	STANDARD	220-CON12
19	STANDARD	220-CON19

Back shell with pins during assembly

Vacuum Sockets including Standard Pins Type with Housing and Strain Relief

REDUCED

No. OF PINS	TYPE	PART NUMBER
6	HOUSING	220-CON6-SR
12	HOUSING	220-CON12-SR
19	HOUSING	220-CON19-SR

Specifications Pins

Vacuum:	UHV
Materials	Phospor Bronze / BeCu Gold plated
Wire Diameter Standard	0.6 ... 1.0mm ø
Small	0.25 ... 0.6mm ø
Connection	crimp or solder

Replacement Pins Standard and Small Types

TYPE	QTY	PART NUMBER
Standard	12	220-CM-PINF-12
Standard	20	220-CM-PINF-20
Small	12	220-CM-PINF-12-S
Small	20	220-CM-PINF-20-S

The 6-pin Versions use the pins 360-CRBC-1.6
See page 52!

Air Side Sockets Straight and 90° types

No. OF PINS	TYPE	PART NUMBER
6	STRAIGHT	220-CON6-AIR
6	90°	220-CON6-AIR90
12	STRAIGHT	220-CON12-AIR
12	90°	220-CON12-AIR90
19	STRAIGHT	220-CON19-AIR
19	90°	220-CON19-AIR90

220-CON12/ 220-CON19 and 220-CON12-SR / 220-CON19-SR
Circular Miniature Vacuum connectors with and without Strain relief Housing

The packages contain
220-CON12/19: Front part (longer part) and back plate of connector, connection screw and crimp pins

The -SR versions contain in addition:
–Main housing including two set screws
–Back housing
–Cable clamp plate with two screws

1) If shielding is required, slip the braid over the cable
2) Slip the back housing over the cable. Be aware of the right direction.
3) Ribbon cable must be opened for about 5cm
4) Strip the wires 4mm
5) Put the wire through the back plate of the connector
 (Stripping can also be done after this step)
6) Crimp the pin to the wire with the 4-indent crimp tool
7) Repeat 5) to 6) for all cables
8) Tear back the cables carefully, so that the pins sit in the back plate of the connector
9) Put the front part over the pins
10) Screw together the front and back parts with the supplied screw from the backside of the connector
11) If -SR is included: plug the connector into the main housing from the back
12) Align the groove of the connector with the housing and fix the connector with the front set screw
13) Stick the back housing into the main housing and secure it with the second set screw
14) If braid is used: adjust so that it slips over the cable clamp
15) Screw down the cable clamp with supplied screws.

Any single open end wires can be crimped to the crimp pins and pushed through the connector back plate (as well as the back housing).

Recommended Tools:
–Small screw driver
–Wire stripper (321-STRIP-04 or 321-STRIP-10, depending on wire size)
–Crimp tool 214-CTOOL-HQ
Recommended Wire:
–Multistrand wire Diameter 0.35mm to 1mm (311-KAPM-035 / -060 /-075 (-100)
or Ribbon cable KAP-RIB-10 / -15
Recommended Braid:
–316-BRAID3 or 316-BRAID4