# SERIES: CDM1203 | DESCRIPTION: M12 CONNECTOR

## FEATURES

- M12 female connector
- A & D code versions
- panel mount
- IP67



## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated voltage | 3 & 4 pole models<br>5 pole model<br>8 & 12 pole models | | | 250<br>60<br>30 | V<br>V<br>V |
| rated current | 3, 4, & 5 pole models<br>8 pole model<br>12 pole model | | | 4<br>2<br>1.5 | A<br>A<br>A |
| withstanding voltage | for 1 minute | | 1,500 | | Vac |
| contact resistance | | | | 10 | mΩ |
| insulation resistance | at 500 Vdc for 1 minute | 100 | | | MΩ |
| insertion/withdrawal force | | 0.3 | | 3.0 | kgf |
| operating temperature | | -25 | | 80 | °C |
| life | | 100 | | | cycles |
| safety approvals | compliant with IEC61076-2-101 | | | | |
| flammability rating | see material table | | | | |
| RoHS | yes | | | | |
| IP level | IP67 (in mated condition) | | | | |
| packaging | tray QTY: 30 pcs<br>carton size: 275 x 235 x 335 mm<br>carton QTY: 450 pcs | | | | |

## SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| hand soldering | for maximum 3 seconds | 260 | 280 | 300 | °C |

## PART NUMBER KEY

CDM1203 - XXX - FP - F16 - 67

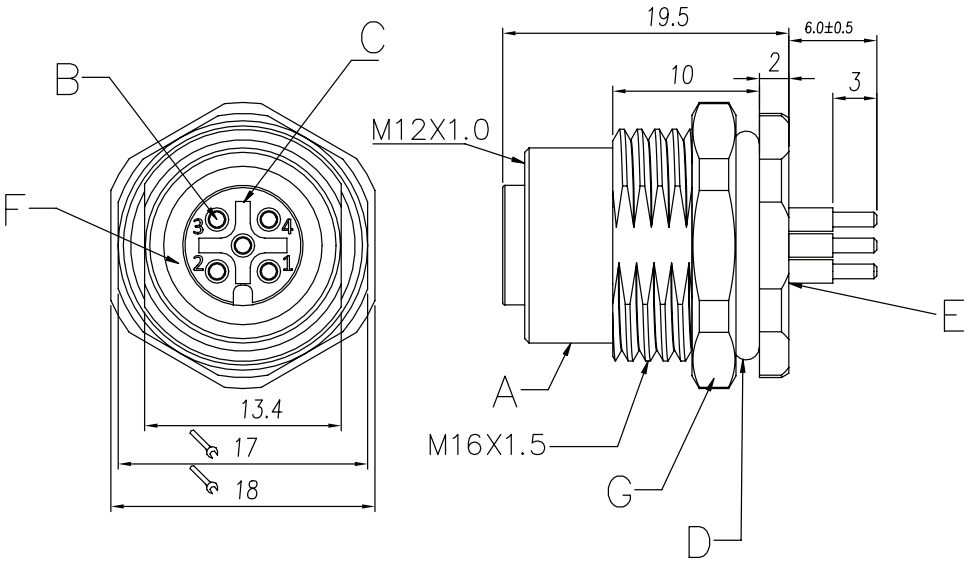
Base Number

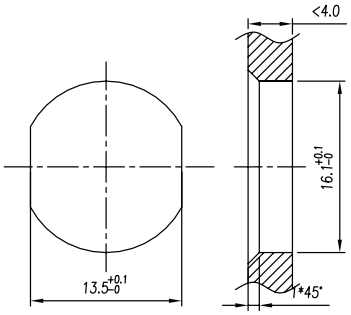
No. of Poles
03A = 3 (A-Coding)
04A = 4 (A-Coding)
04D = 4 (D-Coding)
05A = 5 (A-Coding)
08A = 8 (A-Coding)
12A = 12 (A-Coding)

## MECHANICAL DRAWING

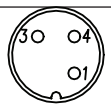
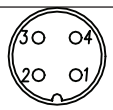
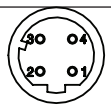
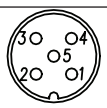
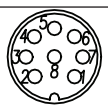
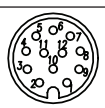
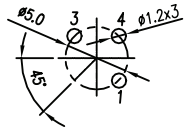
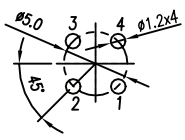
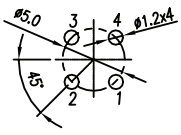
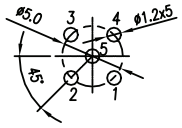
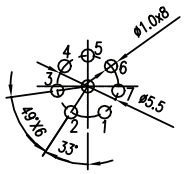
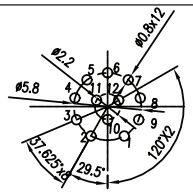
units: mm
tolerance:
0.5<X≤6.0: ±0.1 mm
6.0<X≤30.0: ±0.2 mm
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|---|
| A | M12x1.0 screw | brass | nickel |
| B | terminals; female | brass | gold |
| C | housing; female | PA66 (UL94V-0) | black |
| D | o-ring | FKM | black |
| E | resin | epoxy resin | black |
| F | o-ring | FKM | green |
| G | M16x1.5 nut | brass | nickel |




Recommended Panel Cutout

| No. of Poles | 3 | 4 | 4 | 5 | 8 | 12 |
|---|---|---|---|---|---|---|
| Coding |  A-Coding |  A-Coding |  D-Coding |  A-Coding |  A-Coding |  A-Coding |
| Pin Diameter | 1.0 mm | 1.0 mm | 1.0 mm | 1.0 mm | 0.8 mm | 0.6 mm |
| Recommended PCB Layout Top View |  |  |  |  |  |  |

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 12/13/2021 |
| 1.01 | logo, datasheet style update | 08/05/2022 |
| 1.02 | added D-Code model | 05/09/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.

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