


SERIES: CDM847 | **DESCRIPTION:** M8 CONNECTOR

FEATURES

- M8 female connector
- A & B code versions
- panel mount
- IP67


SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|----------------------------|-------------------------------|-----|-----|-----|--------|
| rated voltage | 3 & 4 pole models | | | 60 | V |
| | 5, 6, & 8 pole models | | | 30 | V |
| rated current | 3, 4, & 5 pole models | | | 3 | A |
| | 6 & 8 pole models | | | 1.5 | A |
| withstanding voltage | for 1 minute | | 500 | | Vac |
| contact resistance | | | | 5 | 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 IEC61076-2-104 | | | | |
| flammability rating | see material table | | | | |
| RoHS | yes | | | | |
| IP level | IP67 (in mated condition) | | | | |

SOLDERABILITY

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

PART NUMBER KEY

CDM847 - XXX - FP - F010 - 67

Base Number

No. of Poles:

03A = 3 (A-Coding)

04A = 4 (A-Coding)

05B = 5 (B-Coding)

06A = 6 (A-Coding)

08A = 8 (A-Coding)

MECHANICAL DRAWING

units: mm

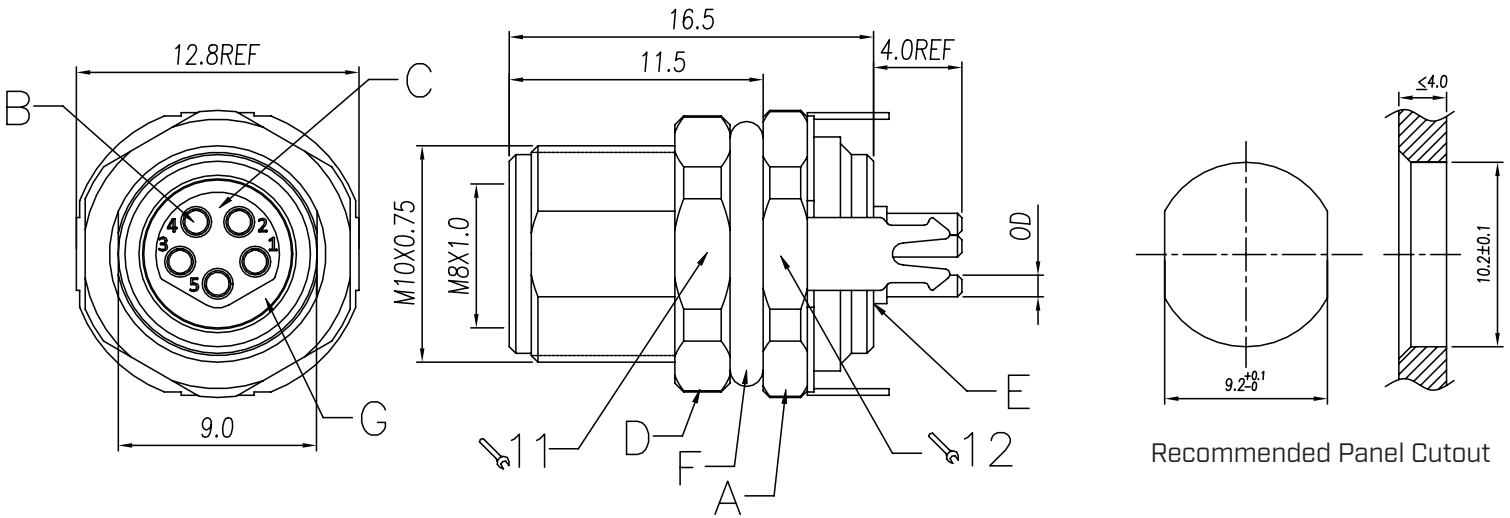
tolerance:

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 | M8x1.0 screw M10x0.75 screw | brass | nickel |
| B | terminals; female | brass | gold |
| C | housing; female | PA66 [UL94V-0] | black |
| D | M10x0.75 nut | brass | nickel |
| E | resin | epoxy resin | black |
| F | o-ring | FKM | black |
| G | o-ring | FKM | orange |



| No. of Poles | 3 | 4 | 5 | 6 | 8 |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|
| Coding | A-Coding | A-Coding | B-Coding | A-Coding | A-Coding |
| Pin Diameter | 1.0 mm | 1.0 mm | 1.0 mm | 0.6 mm | 0.6 mm |
| Recommended PCB Layout Top View | | | | | |

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 01/21/2025 |

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



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