



SERIES: CDM1248 | DESCRIPTION: M12 CONNECTOR

FEATURES

- M12 female connector
- D code
- panel mount
- IP67
- 0.5, 1, 2, 3, & 5 meter length options



SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|----------------------------|-------------------------------|-----|-------|-----|--------|
| rated voltage | | | | 60 | V |
| rated current | | | | 1.5 | 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) | | | | |

PART NUMBER KEY

CDM1248 - 04D - FW - F16 - XXX - 67

Base Number

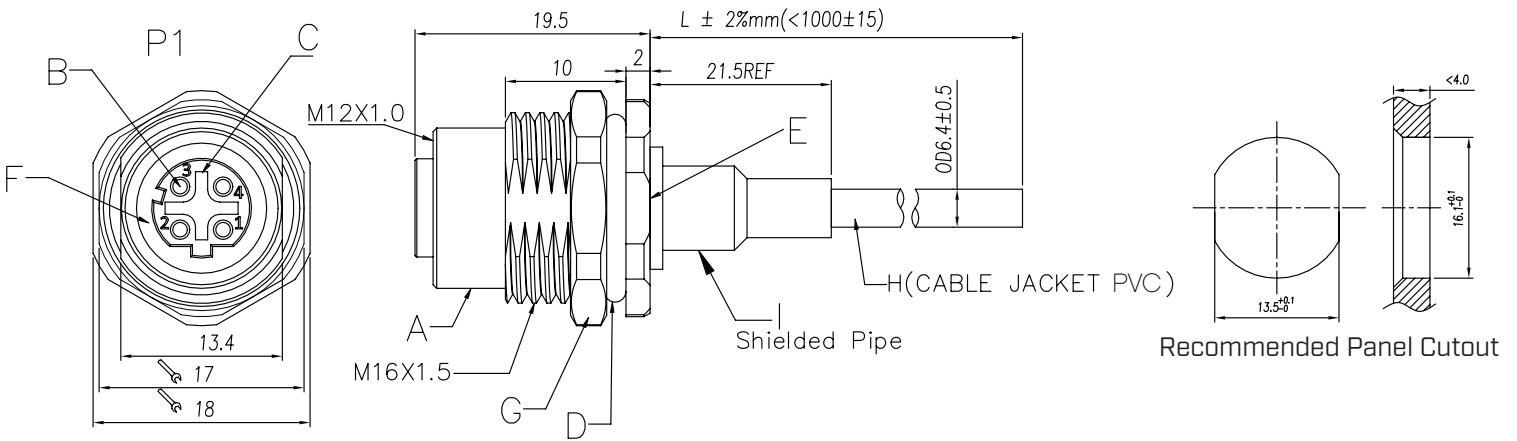
Cable Length:

050 = 0.5 m
 100 = 1 m
 200 = 2 m
 300 = 3 m
 500 = 5 m

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 | black epoxy | black |
| F | o-ring | FKM | green |
| G | M16X1.5 nut | brass | nickel |
| H | cable | CAT5 (100 Mbps), UL2464, 26 AWG PVC jacket | |
| I | shield pipe | brass | nickel |



| | |
|--------------|--|
| No. of Poles | 4 |
| D-Coding | |
| Cable | 26 AWG twisted pair X 2C + AL + Braid OD: Ø6.4 mm |
| Wiring | <p>P1</p> <p>1 Yellow ——— TD+</p> <p>3 Orange ——— TD-</p> <p>2 White ——— RD+</p> <p>4 Blue ——— RD-</p> <p>Shield Braid ———</p> |

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 05/09/2024 |

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



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