

**SERIES:** CDM1277 | **DESCRIPTION:** M12 CABLE**FEATURES**

- M12 molded male cable connector
- D code
- right-angle
- 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                   | M12: IP67 (in mated condition)<br>RJ45: IP20 |     |       |     |        |

**PART NUMBER KEY****CDM1277 - 04D - 01MRA - XXX - RJ45 - 67**

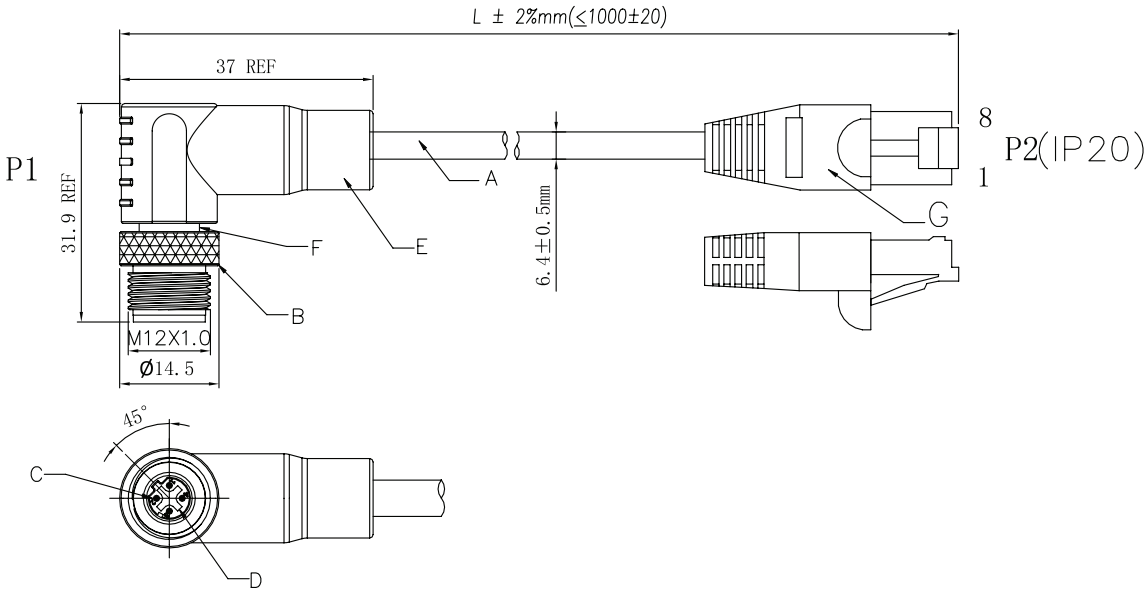
Base Number

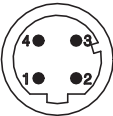
Cable Length:  
05M = 0.5 m  
1M = 1 m  
2M = 2 m  
3M = 3 m  
5M = 5 m

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    | cable           | CAT5 (100 Mbps), UL2464, 26 AWG PVC jacket |               |
| B    | M12x1.0 screw   | brass                                      | nickel        |
| C    | terminals; male | brass                                      | gold          |
| D    | housing; male   | PA66 (UL94V-0)                             | black         |
| E    | overmold        | UL20549 PUR                                | black         |
| F    | shield pipe     | brass                                      | nickel        |
| G    | connector       | RJ45 8PIN shield shell                     | black         |



|              |   |           |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
|--------------|---|-----------|--|-----------|----------|--|---|----------|--|---|---------|--|---|--------|--|---|--------------|--|--------|
| No. of Poles | 4   |           |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| D-Coding     |    |           |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| Cable        | 26 AWG twisted pair X 2C + AL + Braid<br>OD: Ø6.4 mm  |           |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| Wiring       | <table><tr><td>P1 (M12)</td><td></td><td>P2 (RJ45)</td></tr><tr><td>1 Yellow</td><td></td><td>1</td></tr><tr><td>3 Orange</td><td></td><td>2</td></tr><tr><td>2 White</td><td></td><td>3</td></tr><tr><td>4 Blue</td><td></td><td>6</td></tr><tr><td>Shield Braid</td><td></td><td>Shield</td></tr></table> | P1 (M12)  |  | P2 (RJ45) | 1 Yellow |  | 1 | 3 Orange |  | 2 | 2 White |  | 3 | 4 Blue |  | 6 | Shield Braid |  | Shield |
| P1 (M12)     |   | P2 (RJ45) |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| 1 Yellow     |   | 1         |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| 3 Orange     |   | 2         |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| 2 White      |   | 3         |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| 4 Blue       |   | 6         |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |
| Shield Braid |   | Shield    |  |           |          |  |   |          |  |   |         |  |   |        |  |   |              |  |        |

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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