

# M12 Encoder Cable

*Connectivity to M12 connector equipped encoders...*

## 5 and 8 pin M12 Connector/Cable Assemblies

### DESCRIPTION

Connector/cable for interface with all Dynapar brand incremental encoders equipped with M12 connectors. While traditional MS style connections are the most popular for encoder application, many users and OEMs are switching to M12 connectors.

The M12 connector is an international specification defined by the EN50 044 Standard. The M12 is very compact and extremely rugged. It is also known by names such as Euro or Micro.

The Dynapar brand M12 connector/cable features very high pullout resistance. It is truly a heavy-duty IP67 connection with the copper wires of the cable being securely soldered or crimped to gold-plated brass pins and sleeves at the factory. Twisted pair conductors are used (8-pin Cables) for high immunity to electrical transient interference.

### COMPATIBILITY:

Cables are compatible with the following Dynapar series encoders: 21/22; H20; H20 Hub Shaft; H58; HA25; HC25; HR25; HS20; HS35; HA26; HC26; HR26

Connections: 5 pin, M12 Connector/Cable

| PIN | COLOR | FUNCTION |
|-----|-------|----------|
| 1   | BRN   | Power +V |
| 2   | WHT   | SIG. B   |
| 3   | BLU   | COM.     |
| 4   | BLK   | SIG. A   |
| 5   | GRY   | SIG. Z   |

Connections: 8 pin, M12 Connector/Cable

| PIN | COLOR   | FUNCTION       |
|-----|---------|----------------|
| 1   | BRN     | SIG. A         |
| 2   | RED     | Power +V       |
| 3   | BRN/WHT | SIG. $\bar{A}$ |
| 4   | ORN     | SIG. B         |
| 5   | ORN/WHT | SIG. $\bar{B}$ |
| 6   | YEL     | SIG. Z         |
| 7   | BLK     | COM.           |
| 8   | YEL/WHT | SIG. $\bar{Z}$ |

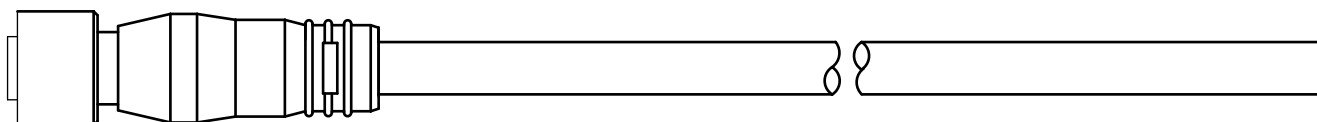
**DYNAPAR™ brand****5 and 8 pin M12 Connector/Cable Assemblies**

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## SPECIFICATIONS\*

|                     | <u>5-Pin Cables</u> | <u>8-Pin Cables</u>                            |
|---------------------|---------------------|--|
| Wire Gauge:         | 24 AWG              | Signals: 24 AWG; Power: 22 AWG – twisted pairs |
| Jacket Material:    | PVC                 | PVC  |
| Temperature Rating: | 105°C               | 80°C   |
| Jacket Outer Dia.:  | 0.230" max.         | 0.275" max.                                    |



8-PIN ASSEMBLY MADE WITH TWISTED PAIR CABLE FOR HIGH IMMUNITY TO ELECTRICAL TRANSIENT INTERFERENCE.

## ORDERING INFORMATION

| Part Number | Description                                   |
|-------------|---|
| 112859-0015 | 5-Pin M12 Cable Assembly, 15 feet (5 meters)  |
| 112859-0030 | 5-Pin M12 Cable Assembly, 30 feet (10 meters) |
| 112860-0015 | 8-Pin M12 Cable Assembly, 15 feet (5 meters)  |
| 112860-0030 | 8-Pin M12 Cable Assembly, 30 feet (10 meters) |

For availability of additional cable lengths, please contact your local sales representative.

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