## 2090-Series Motor/Actuator Cables

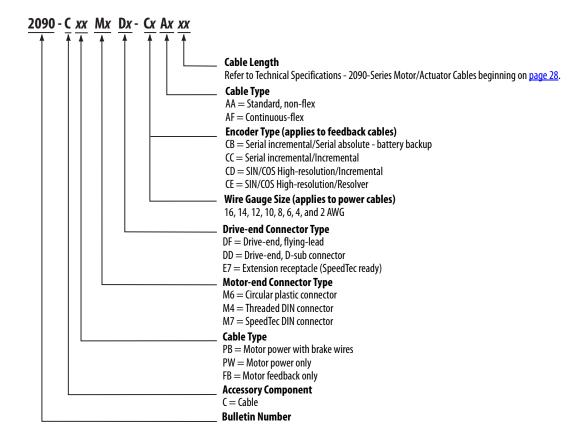
A wide variety of motor/actuator cables with rugged DIN connectors are available for connecting your motion control system. Standard (non-flex) motor power and feedback cables are available for all Allen-Bradley servo motors and actuators. Continuous-flex rated cables, intended for moving applications, are also available. Continuous-flex extension and standard (non-flex) transition cables are also available for your applications that require them.

| IMPORTANT | All flying-lead feedback cables require breakout components or connector kits for drive-end terminations. Refer to Breakout Components and Connector Kits beginning on <u>page 63</u> for catalog numbers and descriptions.         |
|-----------|---|
| IMPORTANT | Standard (non-flex) cables have a regular maintenance and installation bend radius of 10 times the cable diameter. For flexing applications, continuous-flex cables have an operational bend radius of 12 times the cable diameter. |

## Catalog Numbers - 2090-Series Motor/Actuator Cable

Catalog numbers consist of various characters, each of which identifies a specific option for that component. Use the catalog numbering charts below to understand the configuration of your component. For questions regarding product availability, contact your Allen-Bradley distributor.

Motor Power/Brake, Feedback, and Extension Cables



## **Brake Cable Specifications**

| Brake Cables<br>Cat. No. | Cable Type/<br>Jacket Color                            | Description  | <b>Wire Size</b><br>AWG | Weight,<br>approx<br>kg/m (lb/ft) | <b>Standard Cable Lengths</b><br>m (ft) |  |  |
|--------------------------|--|--|-------------------------|-----------------------------------|---|--|--|
| 2090-DANBT-185 <i>xx</i> | Standard (non-flex)<br>cable, Industrial TPE,<br>Black | Two conductor, 600V, 18 AWG, shielded cable for motor brake. | 18                      | 0.070 (0.047)                     | 02 (6.5) 0<br>03 (9.8) 0                | 05 (16.4)<br>07 (22.9)<br>09 (29.5)<br>12 (39.4) | 15 (49.2)<br>20 (65.6)<br>25 (82.0)<br>30 (98.4) |

## Feedback Cable Specifications

| Feedback Cables <sup>(1) (2)</sup><br>Cat. No. | Cable Type/<br>Jacket Color  | Description  | <b>Wire Size</b><br>AWG                     | Weight,<br>approx<br>kg/m (lb/ft) | <b>Standard Cable Lengths</b><br>m (ft)                                 |  |  |
|--|--|--|---|-----------------------------------|---|--|--|
| 2090-XXNFMF-Sxx                                | Standard (non-flex)<br>cable, Industrial TPE,<br>Black                       | Threaded DIN connector (motor end) to flying<br>leads (drive end), 30V.            | 28 Feedback<br>16 Power, 5V<br>22 Power, 9V | 0.120 (1.35)                      | 01 (3.2)<br>02 (6.5)<br>03 (9.8)<br>04 (13.1)<br>05 (16.4)              | 07 (22.9)<br>09 (29.5)<br>12 (39.4)<br>15 (49.2)<br>20 (65.6)              | 25 (82.0)<br>30 (98.4)<br>40 (131.2)<br>60 (196.8)<br>90 (295.3)   |
| 2090-CFBM7DD-CEAAxx                            | Standard (non-flex)<br>cable, Industrial TPE,<br>Green (DESINA,<br>RAL 6018) | SpeedTec DIN connector (motor end) to<br>premolded connector (drive end), 600V.    | 22 All                                      | 0.136 (0.092)                     |   |  |  |
| 2090-CFBM7DF-CEAAxx                            |  | SpeedTec DIN connector (motor end) to flying leads (drive end), 600V.              | conductors                                  |                                   |   |  |  |
| 2090-UXNFM-S <i>xx</i> <sup>(3)</sup>          | Standard (non-flex)<br>cable, Industrial TPE,<br>Black                       | Flying-leads (motor end) to premolded connector (drive end), 30V.                  | 28 Feedback<br>16 Power, 5V<br>22 Power, 9V | 0.120 (1.35)                      | 01 (3.2)<br>03 (9.8)<br>09 (29.5)                                       | 15 (49.2)<br>30 (98.4)   |  |
| 2090-CFBM6DF-CBAA <i>xx</i>                    |  | Circular plastic connector (motor end) to flying leads (drive end), 300V.          | 28 Feedback<br>16 Power, 5V<br>22 BAT+      |                                   | 01 (3.2)<br>02 (6.5)<br>03 (9.8)<br>04 (13.1)                           | 05 (16.4)<br>07 (22.9)<br>09 (29.5)<br>12 (39.4)                           | 15 (49.2)<br>20 (65.6)<br>25 (82.0)<br>30 (98.4)                   |
| 2090-CFBM6DD-CCAAxx                            |  | Circular plastic connector (motor end) to premolded connector (drive end), 300V.   | 28 Feedback<br>16 Power, 5V                 |                                   |   |  |  |
| 2090-DANFCT-S <i>xx</i>                        |  | Rectangular plastic connector (motor end) to premolded connector (drive end), 30V. | 28 Feedback<br>16 Power, 5V<br>22 BAT+      | 0.130 (0.088)                     |   |  |  |
| 2090-CFBM4DF-CDAF <i>xx</i>                    | Continuous-flex<br>cable<br>Industrial TPE,<br>Green (DESINA,<br>RAL 6018)   | Threaded DIN connector (motor end) to flying leads (drive end), 600V.              | 26 Feedback<br>16 Power, 5V                 | 0.177 (0.119)                     | 01 (3.2)<br>02 (6.5)<br>03 (9.8)<br>04 (13.1)<br>05 (16.4)<br>07 (22.9) | 09 (29.5)<br>12 (39.4)<br>15 (49.2)<br>20 (65.6)<br>25 (82.0)<br>30 (98.4) | 40 (131.2)<br>50 (164.0)<br>60 (196.8)<br>75 (264.0)<br>90 (295.3) |
| 2090-CFBM7DF-CDAFxx                            |  | SpeedTec DIN connector (motor end) to flying<br>leads (drive end), 600V.           | 22 Power, 9V                                |                                   |   |  |  |
| 2090-CFBM7DF-CEAFxx                            |  |  | 22 All<br>conductors                        | 0.143 (0.096)                     |   |  |  |
| 2090-CFBM7DD-CEAF <i>xx</i>                    |  | SpeedTec DIN connector (motor end) to<br>premolded connector (drive end), 600V.    |   |                                   |   |  |  |

(1) 2090-CFBM7xx-CEAxxx feedback cables are UL Listed, bulk cable, type PLTC-ER.

(2) 2090-CFBM4DF-CDAxxx and 2090-CFBM7xx-CDAxxx feedback cables are UL Listed, bulk cable, type CM.

(3) Use with 2090-KFBM4-CAAA (threaded) or 2090-KFBM7-CAAA (SpeedTec) DIN connector kit.