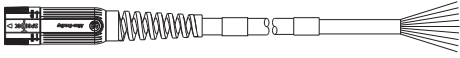
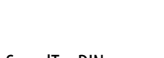
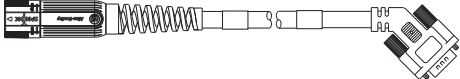
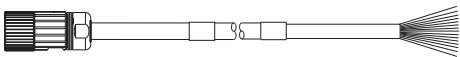
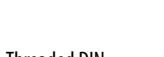
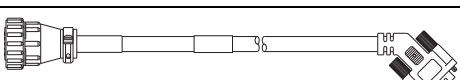
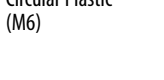
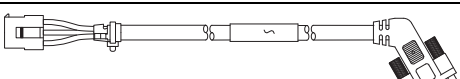


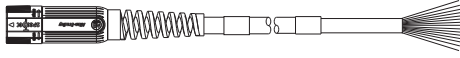
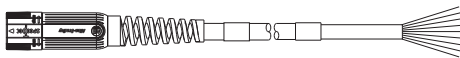
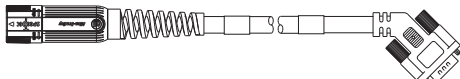
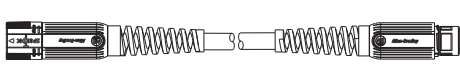
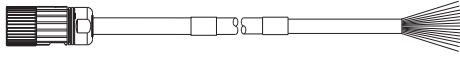
2090-Series Power and Feedback Cables Overview

Feedback Cable Descriptions (standard, non-flex)

Standard Cable Cat. No.	Description	Cable Configuration		Connector Type
		Motor/Acutator End	Drive End	
2090-CFBM7DF-CEAAxx	- Drive-end flying-leads (DF) - High-resolution or resolver applications (CE)			SpeedTec DIN (M7)
2090-CFBM7DD-CEAAxx	- Drive-end 15-pin connector (DD) - High-resolution or resolver applications (CE)			
2090-XXNFMF-Sxx	- Drive-end flying-leads - High-resolution or incremental applications			Threaded DIN (M4)
2090-CFBM4E2-CATR	- Drive-end bayonet (E2), transition (TR) cable ⁽¹⁾ - Motor-end threaded DIN (M4) - All feedback types (CA)			
2090-CFBM6DF-CBAAxx	- Drive-end flying-leads (DF) - High-resolution, battery backup or Incremental applications (CB)			Circular Plastic (M6)
2090-CFBM6DD-CCAAxx	- Drive-end 15-pin connector (DD) - Incremental applications only (CC)			
2090-DANFCT-Sxx	- Drive-end 20-pin connector - High-resolution applications			Rectangular Plastic

(1) Threaded DIN connector (motor end) and bayonet connector for 2090-XXNFMF-Sxx cable. Refer to 2090-Series Motor Power and Feedback Transition Cables on [page 20](#).

Feedback Cable Descriptions (continuous-flex)

Continuous-flex Cable Cat. No.	Description	Cable Configuration		Connector Type
		Motor/Acutator End	Drive End	
2090-CFBM7DF-CDAFxx	- Drive-end flying-leads (DF) - High-resolution or incremental applications (CD)			SpeedTec DIN (M7)
2090-CFBM7DF-CEAFxx	- Drive-end flying-leads (DF) - High-resolution or resolver applications (CE)			
2090-CFBM7DD-CEAFxx	- Drive-end 15-pin connector (DD) - High-resolution or resolver applications (CE)			
2090-CFBM7E7-CDAFxx 2090-CFBM7E7-CEAFxx	- Drive-end (male) connector, extension (E7) ⁽¹⁾ - Motor-end SpeedTec DIN cable plug (M7)			
2090-CFBM4DF-CDAFxx	- Drive-end flying-leads - High-resolution or incremental applications			Threaded DIN (M4)

(1) SpeedTec DIN connector (motor end) and male connector for extending SpeedTec or threaded DIN cable. Refer to SpeedTec DIN Continuous-flex Extension Cables on [page 19](#).

IMPORTANT Feedback cables with the CE designation, for example 2090-CFBM7DF-CEAAxx, are intended for high-resolution encoder or resolver applications and have fewer conductors than feedback cables with the CD designation, for example 2090-CFBM7DF-CDAFxx that are intended for high-resolution or incremental encoder applications.

Brake Cable Specifications

Brake Cables Cat. No.	Cable Type/ Jacket Color	Description	Wire Size AWG	Weight, approx kg/m (lb/ft)	Standard Cable Lengths m (ft)
2090-DANBT-18Sxx	Standard (non-flex) cable, Industrial TPE, Black	Two conductor, 600V, 18 AWG, shielded cable for motor brake.	18	0.070 (0.047)	01 (3.2) 05 (16.4) 15 (49.2) 02 (6.5) 07 (22.9) 20 (65.6) 03 (9.8) 09 (29.5) 25 (82.0) 04 (13.1) 12 (39.4) 30 (98.4)

Feedback Cable Specifications

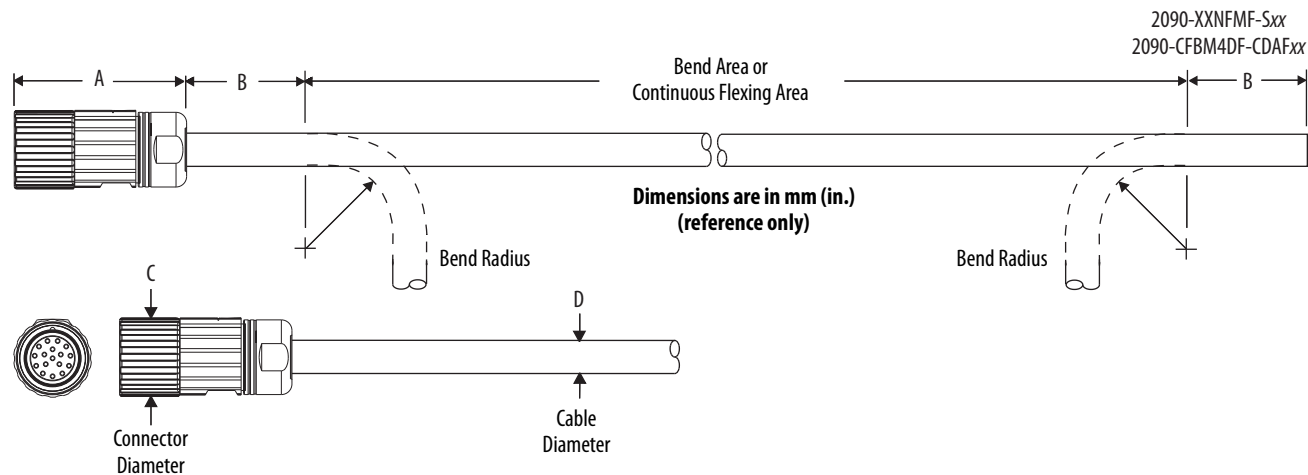
Feedback Cables ^{(1) (2)} Cat. No.	Cable Type/ Jacket Color	Description	Wire Size AWG	Weight, approx kg/m (lb/ft)	Standard Cable Lengths m (ft)		
2090-XXNFMF-Sxx	Standard (non-flex) cable, Industrial TPE, Black	Threaded DIN connector (motor end) to flying leads (drive end), 30V.	28 Feedback 16 Power,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

Feedback Cable Dimensions (threaded DIN connector)



Feedback Cable Dimensions (standard, non-flex)

Feedback Cable Cat. No.	A mm (in.)	B ⁽¹⁾ mm (in.)	C mm (in.)	D mm (in.)
2090-XXNFMF-Sxx	57.0 (2.2)	70 (2.7)	26.0 (1.0)	10.0 (0.40)

(1) Dimension B is based on the cable diameter. Refer to Motor Power and Feedback Cable Bend Radius Definitions on [page 36](#) for more information.

Feedback Cable Dimensions (continuous-flex rated)

Feedback Cable Cat. No.	A mm (in.)	B ⁽¹⁾ mm (in.)	Continuous Bend Radius ⁽¹⁾ mm (in.)	C mm (in.)	D mm (in.)
2090-CFBM4DF-CDAFxx	57.0 (2.2)	81.9 (3.2)	140 (5.5)	26.0 (1.0)	11.7 (0.46)

(1) Dimension B and Continuous Bend Radius are based on the cable diameter. Refer to Motor Power and Feedback Cable Bend Radius Definitions on [page 36](#) for more information.

Feedback Cable Dimensions (catalog number 2090-UXNFM-Sxx)

