

# Kinetix Motion Accessories Specifications

Bulletin 2090, 2094, 1394, 8720MC

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This document provides catalog numbers, product specifications, and dimensions for Allen-Bradley® servo drive accessories.

Use this publication along with the Kinetix® Motion Control Selection Guide, publication [KNX-SG001](#), and the drive-system design guides to help make decisions on the motion control products that are best suited for your system requirements. See Additional Resources on [page 149](#) for publication numbers.

## Summary of Changes

This manual contains new and updated information as indicated in the following table.

Topic	Page
Added 2090-CSxM1xx-xxVAxx (PVC) and 2090-CSBM1xx-xxLFxx (Halogen-free PUR) single motor-cable specifications.	2...18
Added VPC-B3004x-M servo motor with multi-turn encoder to 2090-Series motor power and feedback cable specifications.	27, 28
Updated Motor Connector/Cable Plug Compatibility with 2090-CSxM1xx-xxVAxx (PVC) and 2090-CSBM1xx-xxLFxx (Halogen-free PUR) single motor-cables.	27
Added 2090-Series Kinetix TLP motor power and feedback cable specifications.	58...71
Added Kinetix TLP Motor-end Cable Connector Kits.	71



## Technical Specifications - 2090-Series Power and Feedback Cables

**IMPORTANT** Maximum motor cable length depends on the feedback type and overall system design. The drive-system power supply, AC input-power type, and AC input voltage are among the configuration variables. For more information on maximum cable lengths see your servo drive user manual or the Kinetix Servo Drives Technical Data, publication [KNX-TD003](#).

### Power Cable Specifications

Power Cables <sup>(1)</sup> Cat. No.	Cable Type/ Jacket Color	Description	Wire Size AWG	Weight, approx kg/m (lb/ft)	Standard Cable Lengths m (ft)			
2090-XXNPMF-16Sxx	Standard (non-flex) cable, Industrial TPE, Black	Four conductor, 600V, shielded cable for three-phase power with additional four conductors, 18 AWG, shielded, for motor brake and spares.	16	0.276 (0.186)	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) 40 (131.2) 60 (196.8) 90 (295.3)	
2090-XXNPMF-14Sxx			14	0.315 (0.212)				
2090-CPBM7DF-16AAxx	Standard (non-flex) cable, Industrial TPE, Orange (DESINA, RAL 2003)	Four conductor, 600V, shielded cable for three-phase power with additional two conductors 18 AWG for motor brake.	16	0.212 (0.143)				
2090-CPBM7DF-14AAxx			14	0.261 (0.175)				
2090-CPBM7DF-12AAxx			12	0.349 (0.235)				
2090-CPBM7DF-10AAxx			10	0.492 (0.331)				
2090-CPBM7DF-08AAxx			8	0.708 (0.476)				
2090-CPBM7DF-06AAxx			6	1.038 (0.698)				
2090-CPBM7DF-04AAxx <sup>(2)</sup>			4	1.549 (1.041)				
2090-CPBM7DF-02AAxx <sup>(2)</sup>			2	2.166 (1.455)				
2090-CPWM7DF-16AAxx			Four conductor, 600V, shielded cable for three-phase power.	16				0.136 (0.091)
2090-CPWM7DF-14AAxx				14				0.185 (0.124)
2090-CPWM7DF-12AAxx	12	0.248 (0.167)						
2090-CPWM7DF-10AAxx	10	0.418 (0.281)						
2090-CPWM7DF-08AAxx	8	0.644 (0.433)						
2090-CPWM6DF-16AAxx	Standard (non-flex) cable, Industrial TPE, Black	Four conductor, 600V, shielded cable for three-phase power.		16	0.138 (0.093)			
2090-DANPT-16Sxx			16					
2090-CPBM6DF-16AAxx			16					
2090-CPBM4DF-16AFxx	Continuous-flex cable	Four conductor, 600V, shielded cable for three-phase power with additional two conductors 18 AWG for motor brake.	16	0.228 (0.153)				
2090-CPBM7DF-16AFxx			16					
2090-CPBM7DF-14AFxx			14		0.289 (0.194)			
2090-CPBM7DF-10AFxx			10		0.513 (0.345)			
2090-CPBM7DF-08AFxx			8		0.697 (0.468)			
2090-CPWM4DF-16AFxx			Industrial TPE, Orange (DESINA, RAL 2003)		Four conductor, 600V, shielded cable for three-phase power.	16	0.154 (0.104)	
2090-CPWM7DF-16AFxx	16							
2090-CPWM7DF-14AFxx	14	0.196 (0.132)						
2090-CPWM7DF-10AFxx	10	0.452 (0.304)						
2090-CPWM7DF-08AFxx	8	0.666 (0.448)						

(1) 2090-CPxM4DF-xxAxxx and 2090-CPxM7DF-xxAxxx power cables are UL Listed, bulk cable, type TC-ER.

(2) For this cable, the 01 and 02 m (3.2 and 6.5 ft) standard lengths do not apply.