

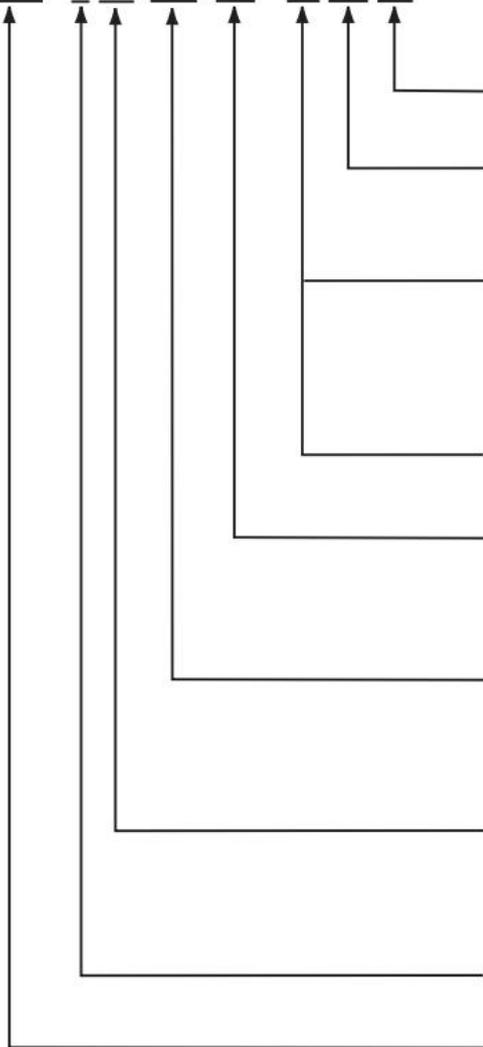
Kinetix Cables With SpeedTEC DIN Connectors



- Bulletin Kinetix®配有 SpeedTec® DIN 連接器，可進行快速連接。
- 可提供煞車元件電源電纜，纜徑 16AWG 到 2AWG 不等。
- 通過最新國際標準認證(IP67, DESINA, UL..)

Cable 概覽

2090 - C xx Mx Dx - Cx Ax xx



Cable Length

Next pages

Cable Type

AA = Standard, non-flex

AF = Continuous-flex

Encoder Type (applies to feedback cables)

CB = Serial incremental/Serial absolute - battery backup

CC = Serial incremental/Incremental

CD = SIN/COS High-resolution/Incremental

CE = SIN/COS High-resolution/Resolver

Wire Gauge Size (applies to power cables)

16, 14, 12, 10, 8, 6, 4, and 2 AWG

Drive-end Connector Type

DF = Drive-end, flying-lead

DD = Drive-end, D-sub connector

E7 = Extension receptacle (SpeedTec ready)

Motor-end Connector Type

M6 = Circular plastic connector

M4 = Threaded DIN connector

M7 = SpeedTec DIN connector

Cable Type

PB = Motor power with brake wires

PW = Motor power only

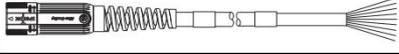
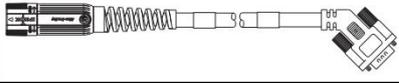
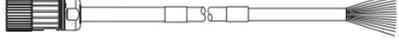
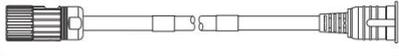
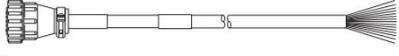
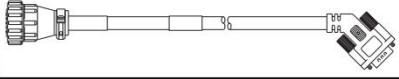
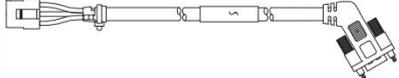
FB = Motor feedback only

Accessory Component

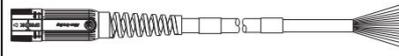
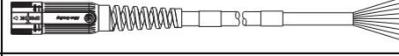
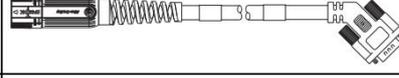
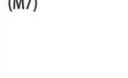
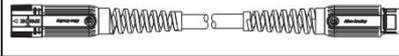
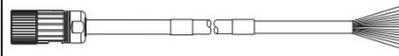
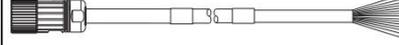
C = Cable

Bulletin Number

Feedback Cable Descriptions (standard, non-flex)

Standard Cable Cat. No.	Description	Cable Configuration		Connector Type
		Motor/Acutator End	Drive End	
2090-CFBM7DF-CEAxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution or resolver applications (CE) 			SpeedTec DIN (M7)
2090-CFBM7DD-CEAxx	<ul style="list-style-type: none"> Drive-end 15-pin connector (DD) High-resolution or resolver applications (CE) 			
2090-XXNFMF-Sxx	<ul style="list-style-type: none"> Drive-end flying-leads High-resolution or incremental applications 			Threaded DIN (M4)
2090-CFBM4E2-CATR	<ul style="list-style-type: none"> Drive-end bayonet (E2), transition (TR) cable ⁽¹⁾ Motor-end threaded DIN (M4) All feedback types (CA) 			
2090-CFBM6DF-CBAxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution, battery backup or Incremental applications (CB) 			Circular Plastic (M6)
2090-CFBM6DD-CCAxx	<ul style="list-style-type: none"> Drive-end 15-pin connector (DD) Incremental applications only (CC) 			
2090-DANFCT-Sxx	<ul style="list-style-type: none"> Drive-end 20-pin connector High-resolution applications 			Rectangular Plastic

Feedback Cable Descriptions (continuous-flex)

Continuous-flex Cable Cat. No.	Description	Cable Configuration		Connector Type
		Motor/Acutator End	Drive End	
2090-CFBM7DF-CDAFxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution or incremental applications (CD) 			SpeedTec DIN (M7)
2090-CFBM7DF-CEAFxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution or resolver applications (CE) 			
2090-CFBM7DD-CEAFxx	<ul style="list-style-type: none"> Drive-end 15-pin connector (DD) High-resolution or resolver applications (CE) 			
2090-CFBM7E7-CDAFxx	<ul style="list-style-type: none"> Drive-end (male) connector, extension (E7) ⁽¹⁾ Motor-end SpeedTec DIN cable plug (M7) 			
2090-CFBM7E7-CEAFxx				
2090-CFBM4DF-CDAFxx	<ul style="list-style-type: none"> Drive-end flying-leads High-resolution or incremental applications 			Threaded DIN (M4)

Power/Brake Cable Descriptions (standard, non-flex)

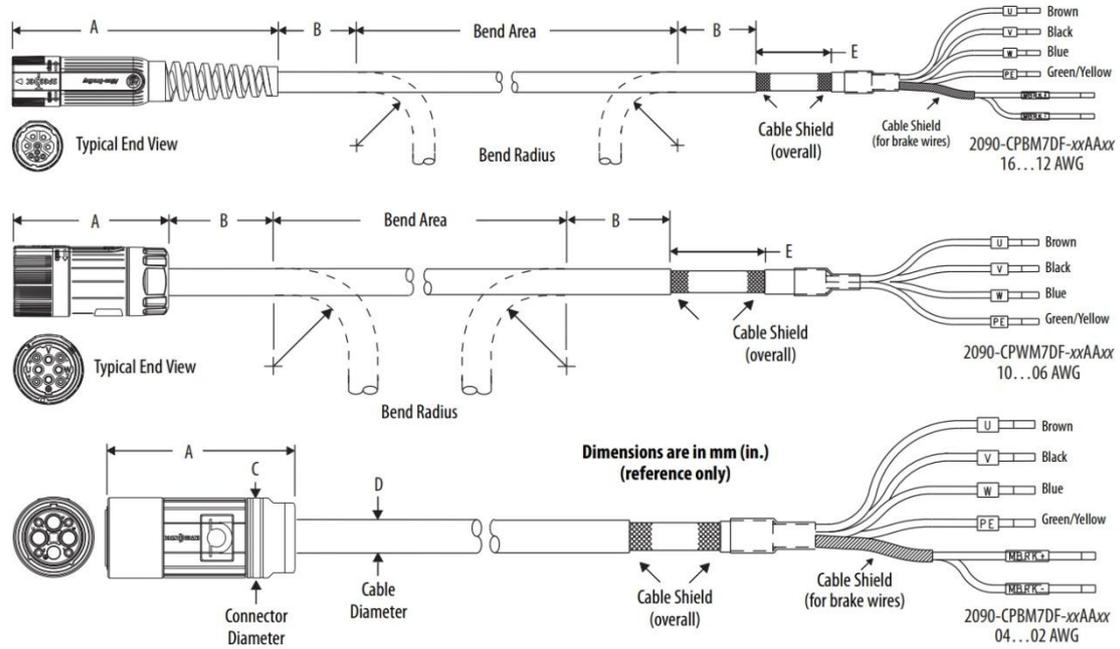
Standard Cable Cat. No.	Description	Cable Configuration		Connector Type
		Motor/Acutator End	Drive End	
2090-CPBM7DF-xxAAxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power/brake wires (PB) 			SpeedTec DIN (M7)
2090-CPWM7DF-xxAAxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power wires only (PW) 			
2090-XXNPMF-xxSxx	<ul style="list-style-type: none"> • Drive-end flying-leads • Power/brake wires 			Threaded DIN (M4)
2090-CPBM4E2-xxTR	<ul style="list-style-type: none"> • Drive-end bayonet (E2), transition (TR) cable ⁽¹⁾ • Motor-end threaded DIN (M4) • Power/brake wires (PB) 			
2090-CPWM4E2-xxTR	<ul style="list-style-type: none"> • Drive-end bayonet (E2), transition (TR) cable ⁽¹⁾ • Motor-end threaded DIN (M4) • Power wires only (PW) 			
2090-CPBM6DF-16AAxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power/brake wires (PB) 			Circular Plastic (M6)
2090-CPWM6DF-16AAxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power wires only (PW) 			
2090-DANPT-16Sxx	<ul style="list-style-type: none"> • Drive-end flying-leads • Power wires only 			Rectangular Plastic
2090-DANBT-18Sxx	Drive-end flying-lead brake wires			

Power/Brake Cable Descriptions (continuous-flex)

Continuous-flex Cable Cat. No.	Description	Cable Configuration		Connector Type
		Motor/Acutator End	Drive End	
2090-CPBM7DF-xxAFxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power/brake wires (PB) 			SpeedTec DIN (M7)
2090-CPWM7DF-xxAFxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power wires only (PW) 			
2090-CPBM7E7-xxAFxx	<ul style="list-style-type: none"> • Drive-end (male) connector, extension (E7) ⁽¹⁾ • Motor-end SpeedTec DIN cable plug (M7) 			
2090-CPBM4DF-xxAFxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power/brake wires (PB) 			Threaded DIN (M4)
2090-CPWM4DF-xxAFxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power wires only (PW) 			

Power Cable Standard Non-flex

Power Cable Dimensions, Standard, Non-flex (SpeedTec DIN connector)

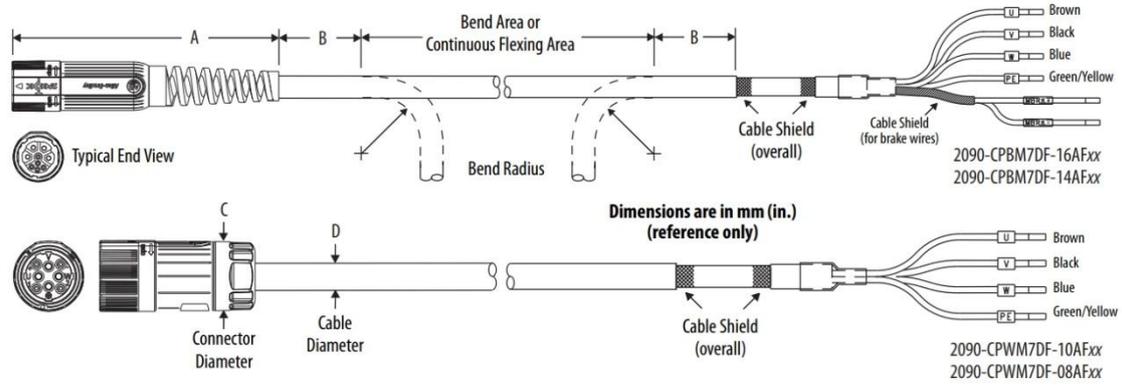


Power Cable Dimensions (standard, non-flex)

Power Cable Cat. No.	A mm (in.)	B ⁽¹⁾ mm (in.)	C mm (in.)	D mm (in.)	E mm (in.)
2090-CPBM7DF-16AAxx	147 (5.8)	81.2 (3.2)	28 (1.1)	11.6 (0.46)	150 (5.9)
2090-CPWM7DF-16AAxx		64.4 (2.5)		9.2 (0.36)	
2090-CPBM7DF-14AAxx		88.9 (3.5)		12.7 (0.50)	
2090-CPWM7DF-14AAxx		72.1 (2.8)		10.3 (0.40)	
2090-CPBM7DF-12AAxx	80 (3.15)	100 (3.9)		14.3 (0.56)	
2090-CPWM7DF-12AAxx		78.4 (3.1)		11.2 (0.44)	
2090-CPBM7DF-10AAxx	100 (3.9)	118 (4.6)	46 (1.8)	16.8 (0.66)	90 (3.5)
2090-CPWM7DF-10AAxx		107 (4.2)		15.3 (0.60)	
2090-CPBM7DF-08AAxx		141 (5.5)		20.1 (0.79)	
2090-CPWM7DF-08AAxx		131 (5.2)		18.7 (0.74)	
2090-CPBM7DF-06AAxx	150 (5.9)	170 (6.7)	64 (2.5)	24.3 (0.96)	
2090-CPBM7DF-04AAxx		202 (7.9)		28.8 (1.13)	
2090-CPBM7DF-02AAxx		229 (9.0)		32.7 (1.29)	

Power Cable Continuous-flex

Power Cable Dimensions, Continuous-flex (SpeedTec DIN connector)

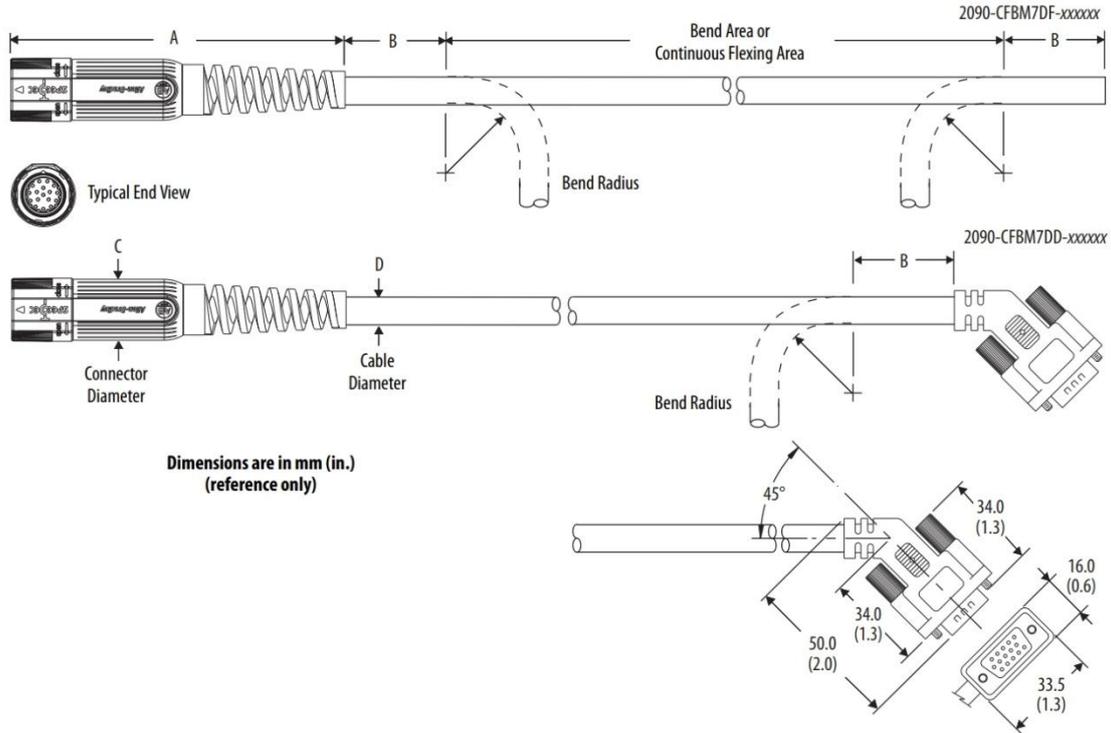


Power Cable Dimensions (continuous-flex rated)

Power Cable Cat. No.	A mm (in.)	B ⁽¹⁾ mm (in.)	Continuous Bend Radius ⁽¹⁾ mm (in.)	C mm (in.)	D mm (in.)	E mm (in.)
2090-CPBM7DF-16AFxx	147 (5.8)	87.5 (3.4)	150 (5.9)	28 (1.1)	12.5 (0.49)	150 (5.9)
2090-CPWM7DF-16AFxx		67.9 (2.7)	116 (4.6)		9.7 (0.38)	
2090-CPBM7DF-14AFxx		95.9 (3.8)	164 (6.5)		13.7 (0.54)	
2090-CPWM7DF-14AFxx		72.8 (2.9)	125 (4.9)		10.4 (0.41)	
2090-CPBM7DF-10AFxx	100 (3.9)	125 (4.9)	214 (8.4)	46 (1.8)	17.8 (0.70)	90 (3.5)
2090-CPWM7DF-10AFxx		110 (4.3)	188 (7.4)		15.7 (0.62)	
2090-CPBM7DF-08AFxx		144 (5.7)	247 (9.7)		20.6 (0.81)	
2090-CPWM7DF-08AFxx		141 (5.5)	242 (9.5)		20.2 (0.79)	

Feedback Cable Standard Non-flex And Continuous-flex

Feedback Cable Dimensions (SpeedTec DIN connector)



Feedback Cable Dimensions (standard, non-flex)

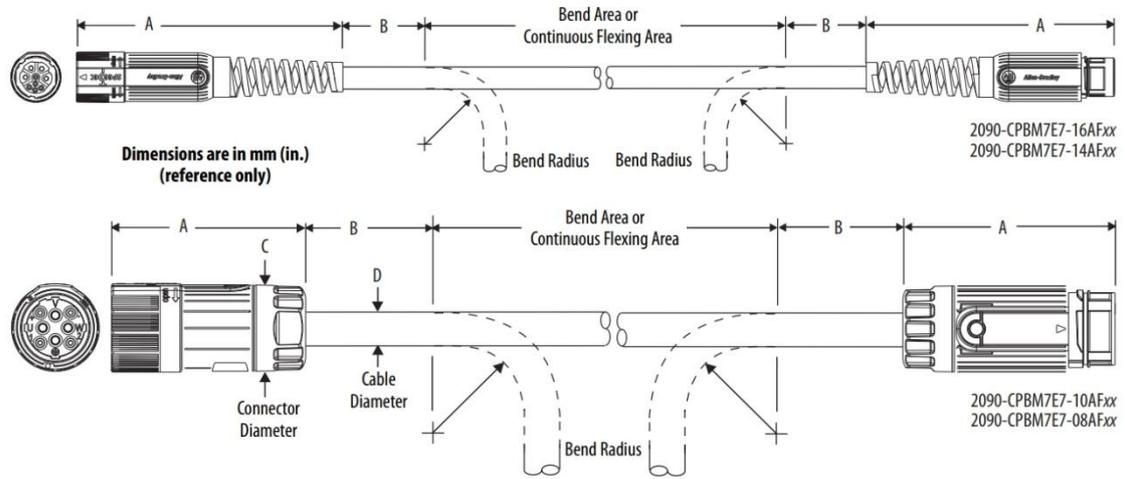
Feedback Cable Cat. No.	A mm (in.)	B ⁽¹⁾ mm (in.)	C mm (in.)	D mm (in.)
2090-CFBM7DF-CEAAxx	147 (5.8)	68.6 (2.7)	28.0 (1.1)	9.8 (0.38)
2090-CFBM7DD-CEAAxx				

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-CFBM7DF-CEAFxx	147 (5.8)	72.1 (2.8)	124 (4.9)	28.0 (1.1)	10.3 (0.40)
2090-CFBM7DD-CEAFxx					
2090-CFBM7DF-CDAFxx		81.9 (3.2)	140 (5.5)		11.7 (0.46)

Extension Cable 選型

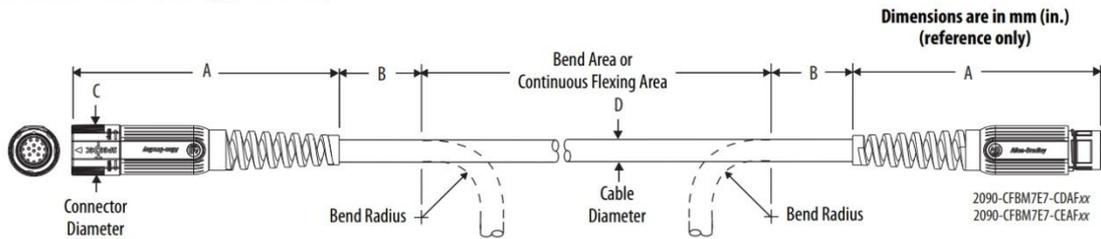
Power Cable Dimensions (SpeedTec DIN)



Power Cable Dimensions (continuous-flex rated)

Power Cable Cat. No.	A mm (in.)	B ⁽¹⁾ mm (in.)	Continuous Bend Radius ⁽¹⁾ mm (in.)	C mm (in.)	D mm (in.)
2090-CPBM7E7-16AFxx	147 (5.8)	87.5 (3.4)	150 (5.9)	28.0 (1.1)	12.5 (0.49)
2090-CPBM7E7-14AFxx		95.9 (3.8)	164 (6.4)		13.7 (0.54)
2090-CPBM7E7-10AFxx	97 (3.8)	125 (4.9)	214 (8.4)	46.0 (1.8)	17.8 (0.70)
2090-CPBM7E7-08AFxx		144 (5.7)	247 (9.7)		20.6 (0.81)

Feedback Cable Dimensions (SpeedTec DIN)



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-CFBM7E7-CEAFxx	147 (5.8)	72.1 (2.8)	124 (4.9)	28.0 (1.1)	10.3 (0.40)
2090-CFBM7E7-CDAFxx		81.9 (3.2)	140 (5.5)		11.7 (0.46)

Power Cable 選型

Power Cable Specifications

Power Cables ⁽¹⁾ 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) 07 (22.9) 25 (82.0) 02 (6.5) 09 (29.5) 30 (98.4) 03 (9.8) 12 (39.4) 40 (131.2) 04 (13.1) 15 (49.2) 60 (196.8) 05 (16.4) 20 (65.6) 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 ⁽²⁾			4	1.549 (1.041)			
2090-CPBM7DF-02AAxx ⁽²⁾			2	2.166 (1.455)			
2090-CPWM7DF-16AAxx			Standard (non-flex) cable, Industrial TPE, Black	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	16	0.138 (0.093)					
2090-DANPT-16Sxx	Standard (non-flex) cable, Industrial TPE, Black	Four conductor, 600V, shielded cable for three- phase power with additional two conductors 18 AWG for motor brake.	16	0.180 (0.121)			
2090-CPBM6DF-16AAxx			16	0.180 (0.121)			
2090-CPBM4DF-16AFxx	Continuous-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	0.228 (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			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)			

Brake Cable 選型

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 選型

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) 07 (22.9) 25 (82.0) 02 (6.5) 09 (29.5) 30 (98.4) 03 (9.8) 12 (39.4) 40 (131.2) 04 (13.1) 15 (49.2) 60 (196.8) 05 (16.4) 20 (65.6) 90 (295.3)
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)	
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) 15 (49.2) 03 (9.8) 30 (98.4) 09 (29.5)
2090-CFBM6DF-CBAAXx		Circular plastic connector (motor end) to flying leads (drive end), 300V.	28 Feedback 16 Power, 5V 22 BAT+		0.120 (1.35)
2090-CFBM6DD-CCAAxx		Circular plastic connector (motor end) to premolded connector (drive end), 300V.	28 Feedback 16 Power, 5V	0.130 (0.088)	
2090-DANFCT-Sxx		Rectangular plastic connector (motor end) to premolded connector (drive end), 30V.	28 Feedback 16 Power, 5V 22 BAT+		
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) 09 (29.5) 40 (131.2) 02 (6.5) 12 (39.4) 50 (164.0) 03 (9.8) 15 (49.2) 60 (196.8) 04 (13.1) 20 (65.6) 75 (264.0) 05 (16.4) 25 (82.0) 90 (295.3) 07 (22.9) 30 (98.4)
2090-CFBM7DF-CDAFxx		SpeedTec DIN connector (motor end) to flying leads (drive end), 600V.	22 All conductors		
2090-CFBM7DF-CEAFxx		SpeedTec DIN connector (motor end) to premolded connector (drive end), 600V.			
2090-CFBM7DD-CEAFxx		SpeedTec DIN connector (motor end) to premolded connector (drive end), 600V.			

Continuous-Flex Extension Cable 選型

Continuous-flex Extension Cable Specifications

Extension Cable ^{(1) (2)} Cat. No.	Cable Type/ Jacket Color	Description	Weight, approx kg/m (lb/ft)	Standard Cable Lengths m (ft)
2090-CPBM7E7-16AFxx	Power with brake Industrial TPE, Orange (DESINA, RAL 2003)	SpeedTec DIN connector plug on motor end to SpeedTec DIN receptacle for mating with 2090-Series standard, non-flex power/brake cable, 600V.	0.228 (0.153)	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)
2090-CPBM7E7-14AFxx			0.289 (0.194)	
2090-CPBM7E7-10AFxx			0.513 (0.345)	
2090-CPBM7E7-08AFxx			0.697 (0.468)	
2090-CFBM7E7-CDAFxx	Feedback Industrial TPE, Green (DESINA, RAL 6018)	SpeedTec DIN connector plug on motor end to SpeedTec DIN receptacle for mating with 2090-Series standard, non-flex feedback cable, 600V.	0.153 (0.103)	
2090-CFBM7E7-CEAFxx			0.143 (0.096)	

Power and Feedback Transition Cable 選型

Power and Feedback Transition Cable Specifications

Transition Cable Cat. No.	Cable Gauge AWG	Cable Type/ Jacket Color	Description	Standard Cable Lengths mm (in.)
2090-CPBM4E2-14TR	14 and 16	Power with brake Industrial TPE, Black	Threaded DIN connector on motor end to bayonet receptacle for mating with existing bayonet cable, 600V.	500 (19.7)
2090-CPBM4E2-10TR	10			
2090-CPBM4E2-08TR	8			
2090-CPBM4E2-04TR	4 and 6			
2090-CPWM4E2-14TR	14 and 16	Power (only) Industrial TPE, Black		
2090-CPWM4E2-10TR	10			
2090-CPWM4E2-08TR	8			
2090-CPWM4E2-04TR	4 and 6			
2090-CFBM4E2-CATR	N/A	Feedback Industrial TPE, Black	Threaded DIN connector on motor end to bayonet receptacle for mating with existing bayonet cable, 300V.	



www.esoauto.com.tw

宜碩自動化股份有限公司

宜蘭公司

宜蘭縣羅東鎮光華街 75 之 1 號 2F

Tel : 03-9519368

Fax : 03-9519370

E-mail : auto.eso@msa.hinet.net

台北分公司

台北市基隆路一段 10 號 15F

Tel : 02-27623835

Fax : 02-27623670