

Series SF Flexible Servo Cables



Maximum Flexibility in Servo Control and Power

Series SF power servo cables bring a new level of flexibility to the integration and monitoring of servo drives. Designed specifically for connecting power between the supply and servo motors, drives, and controllers, Series SF cables feature a flexible TPE jacket and PVC/nylon insulation to make them suitable for flexing applications that require continuous movement. The UL listed cables meet the requirements of NFPA 79, allowing them to be used in industrial machinery applications.

The cables are available in two configurations. The power cable has four conductors for power and ground. The composite cable adds two additional individually shielded twisted pairs for brake or temperature control.

- 18 - 8 AWG (0.96 - 8.5 mm²) conductor size range
- Tight bend radius: 10x the cable diameter
- Meets NFPA Standard 79 for industrial machinery
- Color-coded and numbered power conductors: black for power and green/yellow for ground
- Color-coded twisted pairs: black/red and black/white
- Other jacket colors and shielding available on request
- Ideal for machine tools, pick and place equipment, Cartesian and articulated motion control, and automated material handling systems
- Individually shielded pairs for excellent EMI protection

Alpha Wire

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Specifications

Conductors	Tinned copper, stranded
Insulation	PVC/nylon
Shielding	Aluminum/Mylar foil
	Tinned copper braid, 85% coverage
Jacket	Thermoplastic elastomer
Jacket color	Orange
Bend radius	10x cable diameter
Temperature range	-5°C to +90°C (flexing) -25°C to +90°C (static)
Voltage	600 volt

Approvals	UL Type TC-ER (600V) UL Type WTTC (1000V) Sunlight resistant UL Oil Res I/II CSA AWM I/II A/B, FT4
Put-ups	100, 500, and 1,000 ft; other lengths on request.



Series SF Flexible Power Servo Cable

Configuration: 4 conductors for power/ground

No. of Conductors	Conductor Gauge		Cable Diameter		Jacket Wall Thickness		Part No.
	AWG	mm ²	Inch	mm	Inch	mm	
4	18	0.96	0.382	9.70	0.055	1.39	SF61118CY
	16	1.32	0.406	10.31	0.055	1.39	SF61116CY
	14	2.09	0.440	11.17	0.055	1.39	SF61114CY
	12	3.31	0.506	12.85	0.065	1.65	SF61112CY
	10	5.32	0.603	15.31	0.065	1.65	SF61110CY
	8	8.50	0.785	19.93	0.065	1.65	SF61108CY

Series SF Flexible Composite Servo Cable

Configuration: 4 conductors for power/ground + 2 individually shielded pairs for brake or temperature control

No. of Conductors	Conductor Gauge				Cable Diameter		Jacket Wall Thickness		Part No.
	Power		Brake Pair		Inch	mm	Inch	mm	
	AWG	mm ²	AWG	mm ²					
4 + 2 pairs	16	1.32	18	0.96	0.590	14.98	0.065	1.65	SF61220CY
	14	2.09	18	0.96	0.618	15.69	0.065	1.65	SF61221CY
	12	3.31	16	1.32	0.674	17.11	0.065	1.65	SF61222CY
	10	5.32	16	1.32	0.757	19.22	0.065	1.65	SF61223CY
	8	8.50	16	1.32	0.943	23.95	0.085	2.15	SF61224CY

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