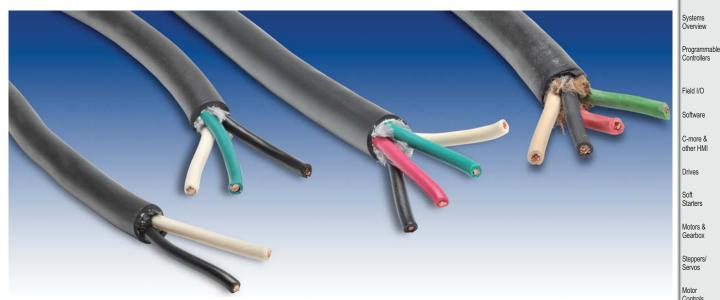
Flexible Cord



Type SJEOOW and SEOOW Flexible Cord

Applications

Type SJEOOW 300 Volt and type SEOOW 600 Volt flexible cords are permitted for use as specified by Article 400 and related articles of the National Electrical Code. Some typical applications include wiring for industrial machinery, washing machines and various other large appliances; heavyduty tools; motors; and temporary electrical power and lighting installations for construction sites. Type SJEOOW and SEOOW cords are suitable for use in (i) dry locations not to exceed minimum -50°C-(58°F) or maximum 105°C (221°F) or (ii) wet locations or other applicable locations. S type cords may be completely immersed in water, or when exposed to oill or coolant at temperatures not to exceed 60°C (140°F). They are ideal for flex applications in harsh environments where the highest degree of oil resistance and extended service life are essential.

CONSTRUCTION

Type SJEOOW and Type SEOOW flexible cords are manufactured using bare flexible stranded Class K copper conductors, and heat, moisture and oil resistant thermoplastic-elastomer (TPE) insulation. The insulated conductors are cabled with non-wicking polypropylene fillers, with a tissue-paper separator wrapped around the assembly for easier removal. A heat, moisture and oil resistant flexible TPE jacket is extruded over the assembly to complete the construction.

Type W Flexible Cord

Applications

Type W 2000 Volt flexible cords are permitted for use as specified by Article 400 and related articles of the National Electrical Code. Some typical applications for Type W cords include industrial and light- to medium-duty mining applications; heavy-duty service as power supply cable; AC systems (grounded and ungrounded); mobile and portable electrical equipment; motor and battery leads. Four-conductor cables may be used on two- or threephase AC systems with one conductor used for grounding. Temperature range is -40°C (-40°F) minimum to 90°C (194°F) maximum.

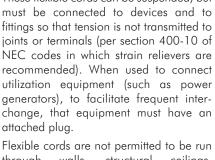
CONSTRUCTION

Type W flexible cords are manufactured using fully stranded bare copper conductors, premium-grade color-coded 90°C (194°F) insulation and black rubber 90°C (194°F) rated chlorinated polyethelene (CPE) jacket. A polyester or paper tape separates the copper conductors from the (Ethylene Propylene Diene Monomer) rubber insulation. The insulated conductors are assembled round with fillers as needed. The cable is covered with a black CPE (chlorinated polyethelene) rubber jacket. The jacket may be applied in two layers. Two-layer jackets are reinforced by a braid of synthetic material between the layers.

Flexible Cord Usage

These flexible cords can be suspended, but must be connected to devices and to fittings so that tension is not transmitted to joints or terminals (per section 400-10 of NEC codes in which strain relievers are recommended). When used to connect utilization equipment (such as power generators), to facilitate frequent interchange, that equipment must have an attached plug.

through walls, structural ceilings, suspended/dropped ceilings, floors, or to be attached to building surfaces.



Power Circuit Protection



Tools

Enclosures

Company

Soft

Motors &

Motor

Proximity

Photo

Encoders

Current

Pressure

Temperature

Pushbuttons/ Lights

Process

Relays/ Timers

Comm

Pneumatics

Appendix Product

Part # Index

Flexible Cord - Material Specifications

Flexible Cord Material Specifications						
Туре	W	SJEOOW SEOOW				
Specification	CPE Rubber	TPE				
General Specifications						
UV and Ozone Resistance	Good	Good				
Temperature	-40°C to 90°C (-40°F to 194°F)	-50°C to 105°C (-58°F to 221°F)				
Cold Bend Test	-40°C	-40°C				
Abrasion and Cut-through Resistance	Good	Good				
Flexing (# of cycles)	15,000	15,000				
Tensile Strength (psi) @ 200% elongation	1,200	800				
Burn Resistance	Good	Good				
Oxidation Resistance	Good	Good				
Water Resistance	Good	Good				
Weld Slag (Burn) Resistance	Good	Good				
Flame Test						
UL Test Standards	FT1 and FT2	FT1 and FT2				
CSA Test Standards	FT5	FT2				
Chemical Resistance						
Acids	Good	Good				
Alkalines	Good	Good				
Alcohols	Good	Good				
Most Solvents	Good	Good				
Oils	Good	Good				
Gasoline	Good	Good				
Greases	Good	Good				

Minimum Bending Radius				
0 1 1 1 1 1	Overall Cable Diameter, inches [mm]			
Conductor Insulation Thickness (inches)	1.000 [25.4] and less	1.001 to 2.000 [25.4 to 50.8]	2.001 [50.82] and over	
Timokiroso (monos)	Minimum Bending Radius as a Multiple of Cable Diameter			
0.169 [4.3] and smaller	4 [101.6]	5 [127.0]	6 [152.4]	
0.170 [4.32] and larger 5 [127.0]		6 [152.4]	7 [177.8]	
Note: Dimensions are in inches. 1 inch = 1,000 mils.				

Flexible Cord – Type SEOOW

Features

- TPE cord, 105°C (221°F), (thermoplastic-elastomer) 600 VAC maximum
- Rated as extra hard-usage service cord
- Approved for outdoor use
- May be completely immersed in water
- Premium oil resistance and flexibility

Conductors

Extra flexible, fully annealed, stranded, Class K copper, per ASTM B-174

Insulation

Oil-resistant, 105°C (221°F), color-coded TPE (thermoplastic-elastomer)

Jacket

Premium grade, oil-resistant, black TPE. Temperature range: -50°C to 105°C (-58°F to 221°F)

Approvals

- UL Standard 62 for Flexible Cords File No. E46194
- CSA standard 22.2 No. 49 for Flexible Cords CSA File No. 224650 Meets CSA FT-2
- MIL Spec: JC 580B
- Meets Mine Safety and Health Admin (MSHA) flame resistance for mining applications
- OSHA
- RoHS compliant









	Type SEOOW 600 Volt Flexible Cord							
Part Number	AWG/# of Conductors	Conductor Stranding (#/AWG)	Nominal Insulation Thickness in. [mm]	Nominal Overall Diameter in. [mm]	Ampacity	Spool/Coil Length ft	Approximate Weight (lbs)	Price
SE00W-18-2BK250	18/2	16 X 30	0.03 [0.76]	0.345 [8.76]	10	250	14.8	<>
SE00W-18-3BK250	18/3	16 X 30	0.03 [0.76]	0.365 [9.27]	10	230	17.3	<>
SE00W-18-4BK20	18/4	16 X 30	0.03 [0.76]	0.395 [10]	7	20	1.6	<>
SE00W-18-4BK50	18/4	16 X 30	0.03 [0.76]	0.395 [10]	7	50	4.0	<>
SE00W-18-4BK250	18/4	16 X 30	0.03 [0.76]	0.395 [10]	7		20.3	<>
SE00W-16-2BK250	16/2	26 X 30	0.03 [0.76]	0.370 [9.4]	13	250	17.8	<>
SE00W-16-3BK250	16/3	26 X 30	0.03 [0.76]	0.390 [9.9]	13		20.3	<>
SE00W-16-4BK20	16/4	26 X 30	0.03 [0.76]	0.420 [10.67]	10	20	2.0	<>
SE00W-16-4BK50	16/4	26 X 30	0.03 [0.76]	0.420 [10.67]	10	50	5.0	<>
SE00W-16-4BK250	16/4	26 X 30	0.03 [0.76]	0.420 [10.67]	10	250	24.8	<>
SE00W-14-2BK250	14/2	41 X 30	0.045 [1.14]	0.505 [12.82]	18		31.5	<>
SE00W-14-3BK250	14/3	41 X 30	0.045 [1.14]	0.525 [13.335]	18		37.3	<>
SE00W-14-4BK20	14/4	41 X 30	0.045 [1.14]	0.575 [14.6]	15	20	3.4	<>
SE00W-14-4BK50	14/4	41 X 30	0.045 [1.14]	0.575 [14.6]	15	50	8.3	<>
SE00W-14-4BK250	14/4	41 X 30	0.045 [1.14]	0.575 [14.6]	15		45.8	<>
SE00W-12-2BK250	12/2	65 X 30	0.045 [1.14]	0.570 [14.48]	25	250	40.8	<>
SE00W-12-3BK250	12/3	65 X 30	0.045 [1.14]	0.595 [15.11]	25		49.8	<>
SE00W-12-4BK20	12/4	65 X 30	0.045 [1.14]	0.645 [16.38]	20	20	5.0	<>
SE00W-12-4BK50	12/4	65 X 30	0.045 [1.14]	0.645 [16.38]	20	50	12.0	<>
SE00W-12-4BK250	12/4	65 X 30	0.045 [1.14]	0.645 [16.38]	20		60.5	<>
SE00W-10-2BK250	10/2	104 X 30	0.045 [1.14]	0.626 [15.9]	30	250	51.8	<>
SE00W-10-3BK250	10/3	104 X 30	0.045 [1.14]	0.665 [16.89]	30	1	64.8	<>
SE00W-10-4BK20	10/4	104 X 30	0.045 [1.14]	0.705 [17.9]	25	20	6.0	<>
SE00W-10-4BK50	10/4	104 X 30	0.045 [1.14]	0.705 [17.9]	25	50	15.0	<>
SE00W-10-4BK250	10/4	104 X 30	0.045 [1.14]	0.705 [17.9]	25	250	79.0	<>
Ampacity values are based on NEC® Table 400-5(A).								

Please Note: Our prices on flexible cord are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

Color Code			
No. of Conductors Color Sequence			
2	White, Black		
3	White, Black, Green		
4	White, Black, Green, Red		