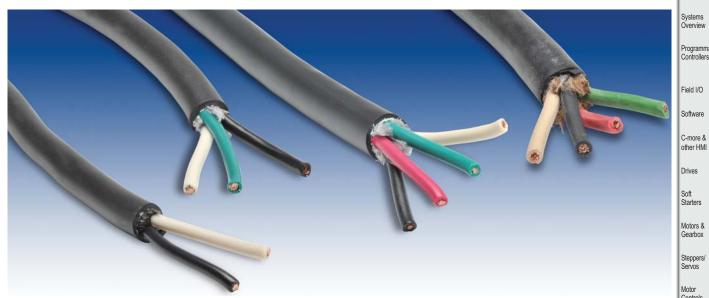
Flexible Cord



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.



Flexible cords are not permitted to be run

Company

Programmable

Field I/O Software

Soft

Motors &

Steppers/ Servos

Motor

Proximity

Photo

Encoders

Current

Pressure

Temperature

Pushbuttons/ Lights

Process

Relays/ Timers

Comm

Power

Circuit Protection

Enclosures

Tools

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				
Conductor Insulation Thickness (inches)	Overall Cable Diameter, inches [mm]			
	1.000 [25.4] and less	1.001 to 2.000 [25.4 to 50.8]	2.001 [50.82] and over	
	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 W Round



Features

- CPE cord, 90°C (194°F), (chlorinated polyethelene) 2000 VAC maximum
- Stands up to severe environmental conditions
- Excellent flexibility and impact resistance
- Resistant to exposure to oil, acid, alkalies, heat, moisture and most chemicals
- · Cable core bound for superior flexibility and toughness

Conductors

Extra flexible, fully annealed, stranded, bare copper

Insulation

Premium-grade, color-coded, (194°F) EPDM (Ethylene Propylene Diene Monomer)

Jacket

Black Rubber CPE (chlorinated polyethylene), 90°C (194°F)

Temperature range:

-40°C to 90°C (-40°F to 194°F)

Approvals

- UL Type W, File No. E308664
- CSA File No. 236844. Meets FT-5 flame test
- Meets Mine Safety and Health Admin (MSHA) flame resistance for mining applications
- OSHA
- RoHS compliant









Proxin Senso

Systems Overview

Field I/O

Software

C-more &

other HMI

Drives

Motors & Gearbox

Steppers/ Servos

Motor Controls

Programmable Controllers

Encoders

Current Sensors

Pressure

Temperature

Pushbuttons/ Lights

Process Relays/ Timers

Comm

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product Index

Part # Index

Type W 2000 Volt Flexible Cord								
Part Number	AWG/# of Conductors	Conductor Strand	Nominal Insulation Thickness in. [mm]	Nominal Overall Diameter in. [mm]	Ampacity	Spool/Coil Length ft	Approximate Weight (lbs)	Price
W-8-4BK10	8/4	133	0.06 [1.52]	0.985 [25.02]	65	10	6.0	<>
W-8-4BK20	8/4	133	0.06 [1.52]	0.985 [25.02]	65	20	12.5	<>
W-8-4BK25	8/4	133	0.06 [1.52]	0.985 [25.02]	65	25	15.5	<>
W-8-4BK50	8/4	133	0.06 [1.52]	0.985 [25.02]	65	50	30.5	<>
W-8-4BK75	8/4	133	0.06 [1.52]	0.985 [25.02]	65	75	46.0	<>
W-8-4BK100	8/4	133	0.06 [1.52]	0.985 [25.02]	65	100	119.0	<>
W-8-4BK150	8/4	133	0.06 [1.52]	0.985 [25.02]	65	150	151.0	<>
W-8-4BK250	8/4	133	0.06 [1.52]	0.985 [25.02]	65	250	229.0	<>
Ampacity values are based on 90°C conductor and 30°C ambient temperature per NEC® Table 400-5(8).								

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			
4	White, Black, Green, Red		