

Product Catalog

SEOOW



Conductors:	18 - 2 AWG Stranded Bare Copper
Jacket:	Seoprene®
Insulation:	T*Prene®
Jacket Color:	Black
Sample Legend:	COLEMAN CABLE SEOPRENE 105 12 AWG (3.30mm ²) 3/C SEOOW (UL) 600V -50C TO 105C CSA LL29753 STOOW (TPE) -50C TO 105C FT2 WATER RESISTANT P-241-3-MSHA
Color Code:	2/C Black, White 3/C Black, White, Green 4/C Black, White, Red, Green 5/C Black, White, Red, Green, Orange

Features:

Flexible and tough jacket. Offers -50°C to 105°C temperature extremes. Seoprene offers excellent abrasion, ozone, sunlight, chemical and oil resistance as well as water and mold resistant non-wicking lightweight polypropylene fillers. Water resistant with high dielectric insulation. Lightweight, long lasting, easy to carry and easy to handle. All components are recyclable and non-hazardous for environmental landfill disposal. Color coded conductors for easy identification.

Applications:

Special uses requiring flexibility and mechanical toughness, high environmental resistance and flame retardance. Push button remote controls. Motor control, stage equipment and lighting. Industrial control and robotic systems. Outdoor applications. Suitable and approved for submersion in water.

Industry Approvals:

Federal and Military use under Federal Spec. JC-580B. UL Listed SEOOW 600V and SJEOOW 300V to NEC Article 400, CSA certified STOOW or SJTOOW (TPE) -50°C to 105°C. MSHA approval for flame resistance for mining applications.

Part Number	Size	Type	Strands	Nominal O.D.	Weight Per/Mft	Amp **
22225	18/2	SEOOW	16/30	0.345	61	10
22325	18/3	SEOOW	16/30	0.365	71	10

22425	18/4	SEOOW	16/30	0.390	84	7
30505	18/5	SEOOW	16/30	0.465	113	5.6
22226	16/2	SEOOW	26/30	0.370	74	13
22326	16/3	SEOOW	26/30	0.390	87	13
22426	16/4	SEOOW	26/30	0.415	103	10
30506	16/5	SEOOW	26/30	0.495	140	8
22227	14/2	SEOOW	41/30	0.500	129	18
22327	14/3	SEOOW	41/30	0.525	151	18
22427	14/4	SEOOW	41/30	0.565	180	15
30507	14/5	SEOOW	41/30	0.645	232	12
22228	12/2	SEOOW	65/30	0.570	173	25
22328	12/3	SEOOW	65/30	0.595	203	25
22428	12/4	SEOOW	65/30	0.645	247	20
30508	12/5	SEOOW	65/30	0.710	301	16
22229	10/2	SEOOW	104/30	0.620	218	30
22329	10/3	SEOOW	104/30	0.655	265	30
22429	10/4	SEOOW	104/30	0.705	324	25
30509	10/5	SEOOW	104/30	0.765	387	20
22220	8/2	SEOOW	96/28	0.662	220	40
22320	8/3	SEOOW	96/28	0.701	290	40
22420	8/4	SEOOW	96/28	0.783	377	35
22470	8/5	SEOOW	96/28	0.851	452	28
22221	6/2	SEOOW	96/26	0.752	301	55
22321	6/3	SEOOW	96/26	0.818	421	45
22421	6/4	SEOOW	96/26	0.892	521	45
22521	6/5	SEOOW	96/26	0.992	665	36
22222	4/2	SEOOW	96/24	0.892	459	70
22322	4/3	SEOOW	96/24	0.913	585	70
22422	4/4	SEOOW	96/24	1.027	771	60
22552	4/5	SEOOW	96/24	1.117	1029	48
22223	2/2	SEOOW	7x17/.0223	1.091	665	95
22323	2/3	SEOOW	7x17/.0223	1.158	940	95
22423	2/4	SEOOW	7x17/.0223	1.267	1170	80
22553	2/5	SEOOW	7x17/.0223	1.396	1419	64

** Ampacity based on NEC Table 400-5(A) for sized 18/2 thru 10/4 and table 400-5 (B) for sizes 8/2 thru 2/5.

Note:

Sizes up to 10/4 are UL/CSA/MSHA, sizes 8/2 to 2/5 are non-UL constructions made with wall thicknesses in accordance with industry standards and MSHA approved.

The ampacity chart is provided for engineering information only. Coleman Cable cannot recommend or express the use of these ampacities since the exact application may need approval from the authority having local jurisdiction. Above information is subject to engineering changes. Cold temperature rating is -50°C.



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

PART NUMBER: 22420
DESCRIPTION: 8/4 STRANDED TYPE SEOOW FLEXIBLE POWER CABLE
CONSTRUCTION: This cable consists of four bare copper TPE insulated conductors twisted with fillers and an overall TPE jacket.
REFERENCE: NEC Article 400
APPROVALS: MSHA, (Cable is not UL Listed)
APPLICATION: 600V Portable Submersible Outdoor Oil Resistant Flexible Power Cable

Construction Parameters:

Conductor	8 AWG Bare Copper
Stranding	96/28
Insulation Material	TPE
Insulation Thickness	0.048" Nom.
Insulated Conductor Diameter	0.241" Nom.
Number of Conductors	4
Lay Length	7.00" Nom.
Filler Type	Polypropylene
Separator/Wrap	Paper Tissue
Jacket Material	TPE
Jacket Thickness	0.100" Nom.
Overall Cable Diameter	0.783" Nom.
Approximate Cable Weight	377.4 Lbs/1M' Nom.
Flame Rating	UL/CSA Horizontal Flame Test

Electrical Properties:

Temperature Rating	-50°C to 105°C
Operating Voltage	600V Max
DC Resistance per Conductor @ 20°C	0.67 Ohms/1M'
Max Ampacity per Conductor (Per NEC Table 400-5a)	35 amps/cond (Assume three current carrying conductors) (Note: Because of 105C temperature rating, higher current can be used under engineering supervision)

Insulation Colors	Black White Red Green
Jacket Color	Black (Other colors available for minimum order)

Legend  CCI SEOPRENE 105 8 AWG (7.85mm²) 4/C SEOOW 600V
-50C TO 105C WATER RESISTANT P-241-3-MSHA
(White Surface Ink Print - P-241-3-MSHA in indent)

This product complies with European Directive 2002/95/EC (RoHS)
On special orders, the customer will accept all factory lengths and +/- 10 percent of total order requested.

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