

Type SOW Flexible Cord, Copper

EPR Insulated, CPE Jacketed, 600 V

CME[®]
wire and cable

A Viakable Company

Features

Listed per UL and CSA.

Cable is rated VW-1 and FT2 flame test, per UL/CSA.

Jacket is rated -40 °C and up to 90 °C per UL/CSA.

Rated per UL as Outdoor and/or Water Resistant Cable.

Complete cable is Lead Free and RoHS compliant.

Application

Portable cord for electrical power supply and general use in equipment exposed to severe environments.

For use outdoors in wet or dry locations.

Standards

UL 62

Flexible Cord and Fixture Wire.

CSA C22.2 No. 49

Flexible Cords and Cables.

Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

- Dry 90 °C
- Wet 60 °C
- Oil 60 °C

Engineering Information

1. Conductor: Soft annealed bare copper conductor, bunch or rope lay flexible stranding.

Sizes: 18 AWG to 2 AWG.

Separator: A separator tape of suitable material, as required.

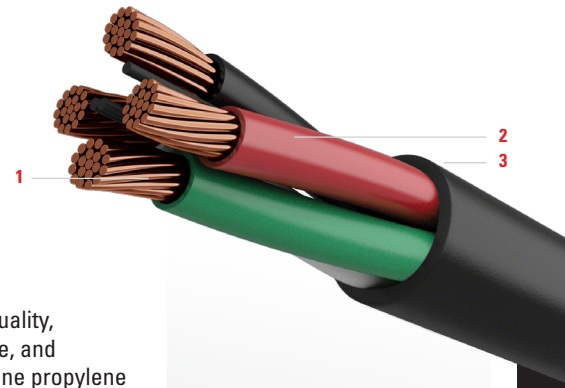
2. Insulation: High quality, heat, moisture, ozone, and thermosetting ethylene propylene rubber (EPR) meeting UL 62 and CSA C22.2 No. 49.

Conductors ID: Color coded insulation.

Number of Conductors	Color
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green

Assembly: Two or more conductors cabled with suitable fillers as required and a binder tape.

3. Jacket: Black extra heavy duty chlorinated polyethylene (CPE) compound.



Technical Data

Type SOW 600 V

Size AWG	Number of Strands	Size of Each Strand	Insulation Thickness	Jacket Thickness	Nominal Outside Diameter	Approximate Total Weight
		AWG	mil	mil	in	lb/kft
2 Conductors						
18	16	30	30	60	0.38	67
16	26	30	30	60	0.41	81
14	41	30	45	80	0.54	141
12	65	30	45	95	0.62	188
10	105	30	45	95	0.69	242
8	168	30	60	110	0.87	370
6	266	30	60	125	0.99	504
4	420	30	60	140	1.13	699
2	665	30	60	155	1.33	995
3 Conductors						
18	16	30	30	60	0.40	74
16	26	30	30	60	0.43	94
14	41	30	45	80	0.57	168
12	65	30	45	95	0.65	222
10	105	30	45	95	0.73	296
8	168	30	60	110	0.92	457
6	266	30	60	125	1.04	632
4	420	30	60	140	1.19	880
2	665	30	60	155	1.40	1270
4 Conductors						
18	16	30	30	60	0.43	87
16	26	30	30	60	0.46	108
14	41	30	45	80	0.62	202
12	65	30	45	95	0.70	269
10	105	30	45	95	0.79	363
8	168	30	60	110	1.03	591
6	266	30	60	125	1.17	820
4	420	30	60	140	1.33	1136
2	665	30	60	155	1.56	1633

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.