



UL 62 / CSA C22.2 No. 49 North American Thermoplastic & TPE Portable Cords

SEOOW

TPE Portable Cord

600 V UL 62 / CSA extra-hard-usage TPE (-50 to +105 °C) double oil- & weather-resistant co



600 V UL 62 Extra-Hard Usage ('S')

TPE -50 to +105 °C (18 to 2 AWG)

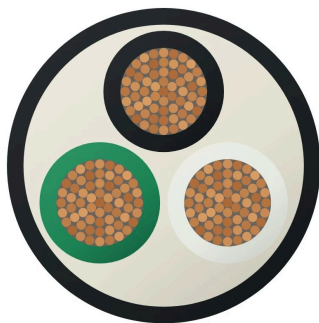
Double Oil (OO) & Outdoor (W)

Application

Type SEOOW is a 600 V Extra-Hard-Usage flexible portable power cable manufactured to UL 62 and CSA C22.2 No. 49. Built with rope-bunch stranded ASTM B174 bare copper conductors (18 AWG up to heavy 2 AWG, 2 to 5 cores), oil-resistant Thermoplastic Elastomer ('E

Typical uses: 480V / 600V industrial machinery, Portable generator & spider-box feeders, Crane festoons & industrial cord reels, Arctic oilfield, mining & construction, Marina dockside & stage power

Construction



Cross-section, not to scale

1	Flexible bunch / rope-stranded copper	ASTM B174
2	600 V oil-resistant TPE insulation (E + O)	UL 62
3	Non-wicking fibrillated fillers & binder	UL 62
4	Extra-hard-usage TPE jacket (O + W)	UL 62

Technical data

Typical values

Rated voltage	600 V AC rms	Dielectric withstand test	2.0 kV AC rms for 1 minute
NEC ampacity (3 current-carrying cores)	10–30 A (18–10 AWG) · 40 A (8 AWG) · 55 A (6 AWG) · 70 A (4 AWG) · 95 A (2 AWG)	Continuous operating temperature	-50 °C to +105 °C (UL 62 / CSA C22.2 No. 49)
Arctic cold bend test	-50 °C for 4 hours without cracking	Insulation / jacket wall (16–10 AWG)	0.76–1.14 mm (30–45 mil) insulation · 1.52–2.41 mm (60–95 mil) jacket
Insulation / jacket wall (8–2 AWG)	1.14–1.52 mm (45–60 mil) insulation · 2.41–3.05 mm (95–120 mil) jacket	Double oil & chemical resistance ('OO')	Both TPE core insulation and TPE jacket pass UL 62 oil immersion (+60/+100 °C)
Weather, water & flame (W)	UL 62 outdoor sunlight & wet location rated · UL VW-1 / CSA FT1/FT2 / MSHA flame	Standards	UL 62, CSA C22.2 No. 49 & NEC Article 400

Sizes

16 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation	AWG × Conductors	Stranding / NEC Amps	Nom. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
SEOOW size schedule 16 sizes						
☐ SEOOW 18/3	18 AWG × 3C	16/30 · 10 A	9.27	26.2	98.0	55.6
☐ SEOOW 18/4	18 AWG × 4C	16/30 · 7 A	10.03	35.0	118.0	60.2
☐ SEOOW 16/3	16 AWG × 3C	26/30 · 13 A	9.91	41.7	118.0	59.5
☐ SEOOW 16/4	16 AWG × 4C	26/30 · 10 A	10.67	55.6	145.0	64.0
☐ SEOOW 14/3	14 AWG × 3C	41/30 · 18 A	13.34	66.3	205.0	80.0
☐ SEOOW 14/4	14 AWG × 4C	41/30 · 15 A	14.48	88.4	250.0	86.9
☐ SEOOW 12/3	12 AWG × 3C	65/30 · 25 A	15.11	105.0	275.0	90.7
☐ SEOOW 12/4	12 AWG × 4C	65/30 · 20 A	16.51	140.0	345.0	99.1
☐ SEOOW 10/3	10 AWG × 3C	104/30 · 30 A	16.76	168.0	380.0	100.6
☐ SEOOW 10/4	10 AWG × 4C	104/30 · 25 A	18.16	224.0	475.0	109.0
☐ SEOOW 8/3	8 AWG × 3C	133/29 · 40 A	21.08	267.0	610.0	126.5
☐ SEOOW 8/4	8 AWG × 4C	133/29 · 35 A	23.11	356.0	765.0	138.7
☐ SEOOW 6/3	6 AWG × 3C	133/27 · 55 A	23.88	425.0	860.0	143.3
☐ SEOOW 6/4	6 AWG × 4C	133/27 · 45 A	26.16	566.0	1,090.0	157.0
☐ SEOOW 4/4	4 AWG × 4C	133/25 · 60 A	30.23	900.0	1,620.0	181.4
☐ SEOOW 2/4	2 AWG × 4C	133/23 · 80 A	34.80	1,430.0	2,380.0	208.8

– Dimensions and tolerances conform to UL 62 / CSA C22.2 No. 49 / NEC Art. 400.

Electrical data

16 sizes

AWG × Conductors	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
18 AWG × 3C	21.400	10	8
18 AWG × 4C	21.400	7	6
16 AWG × 3C	13.500	13	10
16 AWG × 4C	13.500	10	8
14 AWG × 3C	8.450	18	14
14 AWG × 4C	8.450	15	12
12 AWG × 3C	5.310	25	20
12 AWG × 4C	5.310	20	16
10 AWG × 3C	3.340	30	24
10 AWG × 4C	3.340	25	20

AWG × Conductors	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
8 AWG × 3C	2.100	40	32
8 AWG × 4C	2.100	35	28
6 AWG × 3C	1.320	55	44
6 AWG × 4C	1.320	45	36
4 AWG × 4C	0.830	60	48
2 AWG × 4C	0.520	80	64

– Reference ampacities at +30 °C ambient; apply duty-cycle or grouping correction factors per standard.

Standards and approvals

- ✓ UL Listed Type SEOOW (600 V)
- ✓ CSA Certified C22.2 No. 49 (FT1 / FT2)
- ✓ MSHA Flame Approved
- ✓ NEC Article 400 Extra-Hard Usage
- ✓ RoHS 3 Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

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Web

tebaoflex.com/cables/seoww-tpe-portable-cord



Typical values for this cable type, based on UL 62 / CSA C22.2 No. 49 / NEC Art. 400. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.