



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

SJEOOW

TPE Portable Cord

300 V UL 62 / CSA junior service TPE (-50 to +105 °C) double oil- & weather-resistant cord



300 V UL 62 / CSA TPE ('E')

Arctic -50 °C to +105 °C Flex

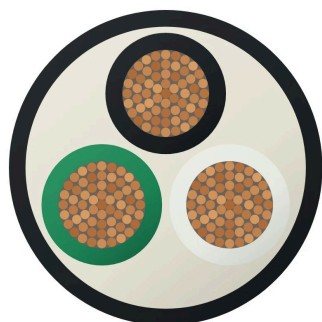
Double Oil (OO) & Outdoor (W)

Application

Type SJEOOW is a premium 300 V Junior Hard Service flexible portable cord per UL 62 and CSA C22.2 No. 49 insulated and jacketed with Thermoplastic Elastomer ('E' = TPE). Combining double oil resistance ('OO' on both cores and jacket), outdoor sunlight/water ra

Typical uses: Cold-storage & arctic construction, Industrial spring-return cord reels, Portable power tools & robotics, Stage, broadcast & event lighting, Food, beverage & chemical plants

Construction



Cross-section, not to scale

1	Flexible bunch-stranded copper (ASTM B174)	ASTM B174
2	Oil-resistant TPE core insulation (E + O)	UL 62
3	Non-wicking fibrillated fillers & separator	UL 62
4	Oil & arctic-weather TPE jacket (O + W)	UL 62

Technical data

Typical values

Rated voltage	300 V AC rms	Dielectric withstand test	1.5 kV AC rms for 1 minute
NEC ampacity (3 current-carrying cores)	10 A (18 AWG) · 13 A (16 AWG) · 18 A (14 AWG) · 25 A (12 AWG) · 30 A (10 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 on mandrel without cracking	Nom. insulation / jacket wall (16–12 AWG)	0.76 mm (30 mil) TPE insulation · 1.52 mm (60 mil) TPE jacket
Specific gravity advantage	12–18 % lighter than equivalent PVC SJTOOW or rubber SJOOOW	Double oil resistance ('OO')	Both TPE core insulation and TPE jacket pass UL 62 oil immersion
Sunlight, water & flame ('W')	UL 62 outdoor wet location & UV rated · UL VW-1 / CSA FT2 flame	Standards	UL 62, CSA C22.2 No. 49 & NEC Article 400

Sizes

13 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
SJEOOW size schedule 13 sizes						
☐ SJEOOW 18/2	18 AWG × 2C	16/30 · 10 A	7.24	17.5	58.0	36.2
☐ SJEOOW 18/3	18 AWG × 3C	16/30 · 10 A	7.75	26.2	72.0	38.8
☐ SJEOOW 18/4	18 AWG × 4C	16/30 · 7 A	8.51	35.0	90.0	42.5
☐ SJEOOW 16/2	16 AWG × 2C	26/30 · 13 A	7.87	27.8	73.0	39.4
☐ SJEOOW 16/3	16 AWG × 3C	26/30 · 13 A	8.38	41.7	92.0	41.9
☐ SJEOOW 16/4	16 AWG × 4C	26/30 · 10 A	9.27	55.6	118.0	46.3
☐ SJEOOW 14/2	14 AWG × 2C	41/30 · 18 A	9.02	44.2	102.0	45.1
☐ SJEOOW 14/3	14 AWG × 3C	41/30 · 18 A	9.53	66.3	132.0	47.6
☐ SJEOOW 14/4	14 AWG × 4C	41/30 · 15 A	10.54	88.4	168.0	52.7
☐ SJEOOW 12/3	12 AWG × 3C	65/30 · 25 A	11.05	105.0	188.0	55.2
☐ SJEOOW 12/4	12 AWG × 4C	65/30 · 20 A	12.07	140.0	240.0	60.4
☐ SJEOOW 10/3	10 AWG × 3C	104/30 · 30 A	14.35	168.0	312.0	71.8
☐ SJEOOW 10/4	10 AWG × 4C	104/30 · 25 A	15.75	224.0	398.0	78.8

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

Electrical data

13 sizes

AWG × Conductors	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
18 AWG × 2C	21.400	10	8
18 AWG × 3C	21.400	10	8
18 AWG × 4C	21.400	7	6
16 AWG × 2C	13.500	13	10
16 AWG × 3C	13.500	13	10
16 AWG × 4C	13.500	10	8
14 AWG × 2C	8.450	18	14
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

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

Standards and approvals

- ✓ UL Listed Type SJE00W
- ✓ CSA Certified C22.2 No. 49 (FT2)
- ✓ NEC Article 400 Compliant
- ✓ OSHA & MSHA Acceptable
- ✓ 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/sje00w-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.