



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

SJTOW

Outdoor Portable Cord

300 V UL 62 / CSA junior service thermoplastic PVC oil-jacketed ('O') outdoor ('W') portab



300 V UL 62 / CSA C22.2 No. 49

Oil-Resistant Jacket (O) + Outdoor (W)

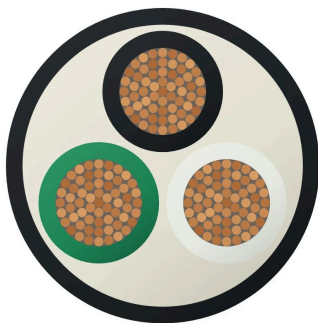
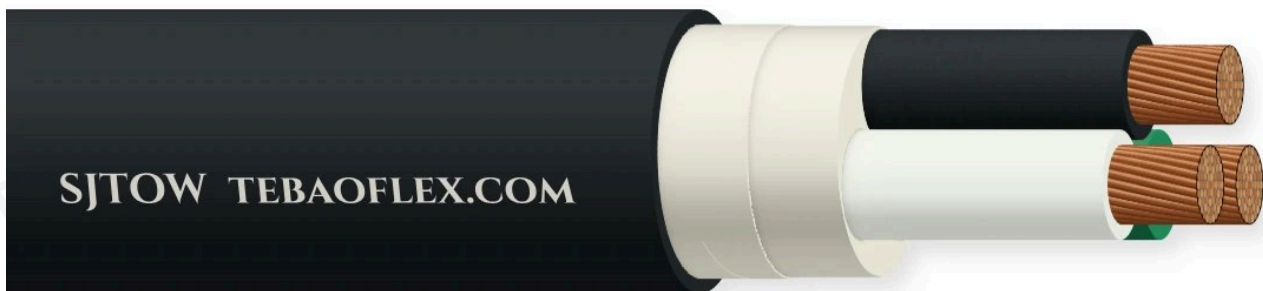
18 to 10 AWG (-40 to +105 °C)

Application

Type SJTOW is a 300 V North American Junior Hard Service portable cord manufactured to UL 62 and CSA C22.2 No. 49. Built with flexible bunch-stranded ASTM B174 bare copper conductors (18 to 10 AWG, 2 to 4 cores), standard thermoplastic PVC core insulation and

Typical uses: Outdoor contractor extension cords, Portable jobsite & task lighting, Pressure washers & lawn equipment, Commercial floor buffers & vacuums, Light industrial power tools

Construction



Cross-section, not to scale

1	Flexible bunch-stranded copper (ASTM B174)	ASTM B174
2	Thermoplastic PVC core insulation (T)	UL 62
3	Polypropylene fillers & separator wrap	UL 62
4	Oil & outdoor PVC outer 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 temperature range	-40 °C to +105 °C (UL / CSA)
Cold bend test	-40 °C without jacket cracking	Insulation / jacket wall (18–12 AWG)	0.76 mm (30 mil) insulation · 1.52 mm (60 mil) jacket
Minimum bending radius	6 × overall cord diameter	Outer jacket oil resistance ('O')	Outer PVC sheath passes UL 62 oil immersion without swelling or cracking
Outdoor & flame rating ('W')	720 h Xenon-arc UV & wet location rated · UL VW-1 / CSA FT2 flame	Standards	UL 62, CSA C22.2 No. 49 & NEC Article 400

Sizes

12 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
SJTOW size schedule 12 sizes						
☐ SJTOW 18/2	18 AWG × 2C	16/30 · 10 A	7.37	17.5	66.0	44.2
☐ SJTOW 18/3	18 AWG × 3C	16/30 · 10 A	7.87	26.2	81.0	47.2
☐ SJTOW 18/4	18 AWG × 4C	16/30 · 7 A	8.64	35.0	100.0	51.8
☐ SJTOW 16/2	16 AWG × 2C	26/30 · 13 A	8.00	27.8	81.0	48.0
☐ SJTOW 16/3	16 AWG × 3C	26/30 · 13 A	8.51	41.7	103.0	51.1
☐ SJTOW 16/4	16 AWG × 4C	26/30 · 10 A	9.40	55.6	130.0	56.4
☐ SJTOW 14/2	14 AWG × 2C	41/30 · 18 A	9.14	44.2	114.0	54.8
☐ SJTOW 14/3	14 AWG × 3C	41/30 · 18 A	9.65	66.3	145.0	57.9
☐ SJTOW 14/4	14 AWG × 4C	41/30 · 15 A	10.67	88.4	184.0	64.0
☐ SJTOW 12/3	12 AWG × 3C	65/30 · 25 A	11.18	105.0	206.0	67.1
☐ SJTOW 12/4	12 AWG × 4C	65/30 · 20 A	12.19	140.0	262.0	73.1
☐ SJTOW 10/3	10 AWG × 3C	104/30 · 30 A	14.48	168.0	342.0	86.9

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

Electrical data

12 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

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

Standards and approvals

- ✓ UL Listed Type SJTOW
- ✓ CSA Certified C22.2 No. 49 (FT2)
- ✓ NEC Article 400 Compliant
- ✓ OSHA 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/sjtow-outdoor-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.