



MIL-DTL-24643/3 LSDCOP/LSTCOP cord

LSDCOP / LSTCOP

MIL-DTL-24643 LSDCOP / LSTCOP Watertight Portable

MIL-DTL-24643/3 600 V watertight low-smoke zero-halogen portable shipboard & shore cord



MIL-DTL-24643/3 (M24643/3)

LSDCOP (2C) & LSTCOP (3C) · 600 V

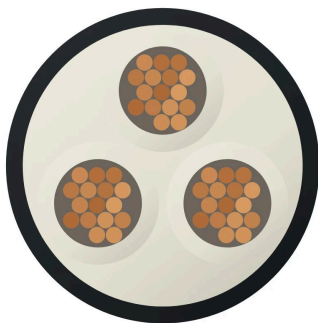
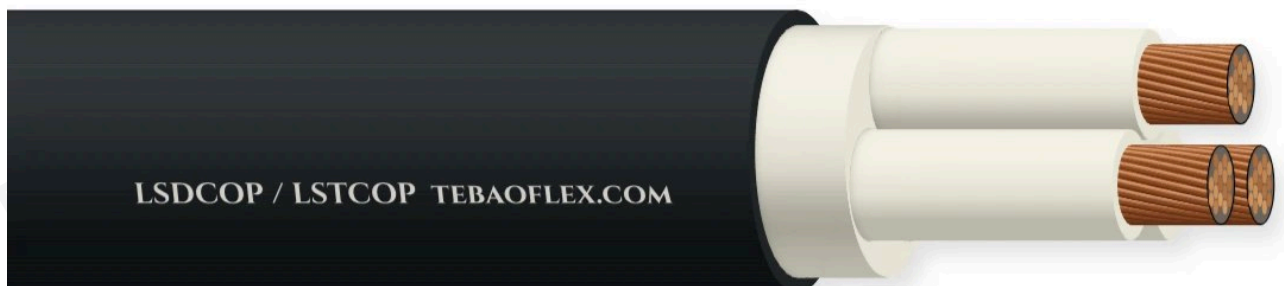
Watertight · LSZH · Shore-to-Ship

Application

US Navy MIL-DTL-24643/3 (M24643/3) watertight, flexing, low-smoke zero-halogen (LSZH) portable shipboard power cord in two-conductor (LSDCOP) and three-conductor (LSTCOP) configurations (#18 AWG to #1/0 AWG) with rope-lay tinned copper, XLPO insulation.

Typical uses: US Navy & Allied Surface Combatants, Pier-to-Ship Shore Power & Dockside Maintenance, Shipboard Damage-Control Dewatering Pumps, Coast Guard, Auxiliary & Research Vessels

Construction



Cross-section, not to scale

- 1 Flexible rope-lay stranded tinned copper
- 2 Low-smoke zero-halogen cross-linked polyolefin (XLPO)
- 3 Longitudinal water-blocking elastomeric compound
- 4 Cross-linked LSZH polyolefin heavy-duty portable jacket

Technical data

Typical values

Rated operating voltage	600 V AC / DC rms	Factory AC dielectric withstand test	2.0 to 3.0 kV AC rms for 5 minutes + IR ≥ 1,000 MΩ·1000 ft
Conductor temperature rating	−30 °C to +105 °C continuous · +250 °C short-circuit	Thermal cycling & overload stability	Verified thermal ageing and short-circuit withstand per standard
Longitudinal watertightness (WT)	Passes MIL-DTL-24643 hydrostatic longitudinal water-penetration test	Minimum bending radius	6 × OD (dynamic portable flexing) · 5 × OD (stowed)
Low-smoke & zero-halogen toxicity	Halogen content < 0.2 % · Acid gas < 5 mg/g · NES 713 toxicity & smoke	Naval fluid & fuel resistance	Resists JP-5 jet fuel, F-76 marine diesel, MIL-PRF-17672 lube oil &
Standards	MIL-DTL-24643/3 (Slash Sheet 3) · Supersedes legacy MIL-C-915 DCOP / TCOP		

Sizes

8 standard constructions

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

Military PIN / Type	Conductors	Voltage	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Ampacity A	Min. bend R mm
LSDCOP — 2-Conductor 600 V Watertight Portable Shipboard Cords (M24643/3) 3 sizes							
☐ M24643/3-02UN (LSDCOP-4)	2×14 AWG (2.08 mm ²)	600 V	10.7	40	145	20	64
☐ M24643/3-04UN (LSDCOP-9)	2×10 AWG (5.26 mm ²)	600 V	14.5	100	268	35	87
☐ M24643/3-06UN (LSDCOP-23)	2×6 AWG (13.3 mm ²)	600 V	20.6	250	565	65	124
LSTCOP — 3-Conductor 600 V Watertight Portable & Shore Power Cords (M24643/3) 5 sizes							
☐ M24643/3-09UN (LSTCOP-3)	3×16 AWG (1.31 mm ²)	600 V	10.4	38	142	15	62
☐ M24643/3-11UN (LSTCOP-6)	3×12 AWG (3.31 mm ²)	600 V	13.7	95	255	25	82
☐ M24643/3-13UN (LSTCOP-14)	3×8 AWG (8.37 mm ²)	600 V	19.3	238	535	50	116
☐ M24643/3-15UN (LSTCOP-40)	3×4 AWG (21.2 mm ²)	600 V	26.2	600	1,140	85	157
☐ M24643/3-18UN (LSTCOP-100)	3×1/0 AWG (53.5 mm ²)	600 V	35.8	1,510	2,520	150	215

– Full M24643/3 range covers LSDCOP-2 through LSDCOP-50 and LSTCOP-2 through LSTCOP-133.

Standards and approvals

- ✓ MIL-DTL-24643/3 (M24643/3) Compliant
- ✓ Low-Smoke Zero-Halogen (LSZH) & Watertight
- ✓ IEEE 45 & MIL-STD-2042 Shipboard Practice

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/mil-dtl-24643-lsdcop-lstcop-watertight-portable-shipboard-shore-power-cord



Typical values for this cable type, based on MIL-DTL-24643/3 (M24643/3) / IEEE 45 / MIL-STD-2042. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.