Underwater ultrathermic exothermic oxygen cutting cable

LU-001 CABLE

LU-001 Underwater Ultrathermic Exothermic O_2 Cutting Cable

NEDU 7-84 / NAVSEA · 300/500 V · Underwater ultrathermic exothermic oxygen cutting cable



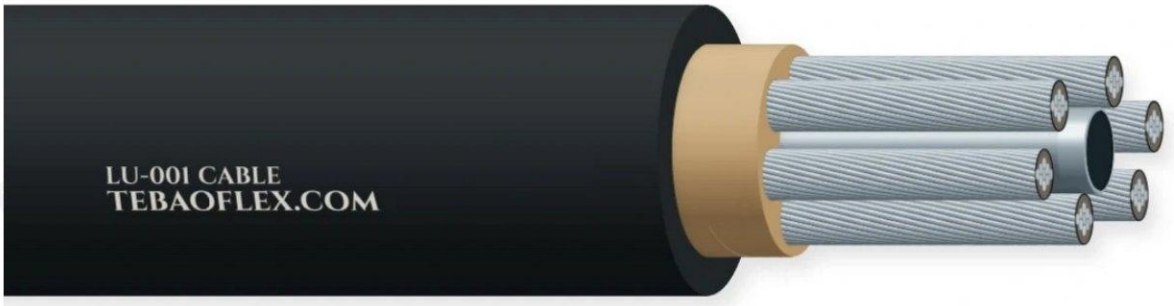
NEDU 7-84 / NAVSEA | 24 V DC Ignition / O_2 | 6 / 9 / 12 mm Bore

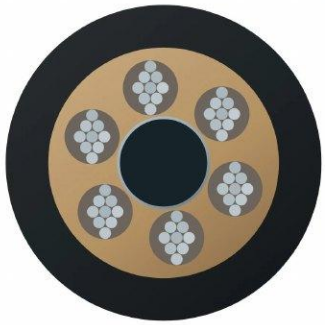
Application

LU-001 Cable (SP-A043 6mm, SP-A047 9mm, SP-A044 12mm) Underwater Ultrathermic Consumable Exothermic Cutting Cable (NEDU 7-84 / NAVSEA, 300/500 V, -30 to +70 °C, min. bend radius 8 × OD).

Typical uses: Work-Class & Observation ROV Systems, Offshore Wind & Subsea Power Grids, Oceanographic, Sonar & Seismic Survey, Commercial Diving & Subsea Intervention

Construction





Cross-section, not to scale

1. Central Oxygen Passage Bore
2. Consumable 6×9 Spiral Steel Wire Core
3. Rust & UV Inhibitor Finish
4. Extruded Polypropylene Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010)	**Core / conductor construction**	Central Oxygen Passage Bore — Coreless hollow center channel delivering Depth + 250–380 psi high-purity oxygen
Primary dielectric / buffering	Consumable 6×9 Spiral Steel Wire Core — 6 strands × 9 wires high-tensile steel acting as conductor & >5,500 °C exothermic fuel	**Continuous operating temperature**	−30…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Extruded Polypropylene Outer Sheath — Gas-tight UV-inhibited polypropylene sheath (SP-A043 6 mm / SP-A047 9 mm / SP-A044 12 mm)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Rust & UV Inhibitor Finish — Rough corrosion-inhibiting treatment over spiral steel wire bundle	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010		

Sizes

3 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
LU-001 CABLE Construction Schedule (−30…+70 °C) 3 sizes						
☐ **LU-001 CABLE Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **LU-001 CABLE Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **LU-001 CABLE Config C (Heavy Hybrid)**	8×2×20 AWG + 4×12 AWG (or 12C)	Stranded tinned Cu (IEC 60228 / ASTM)	16.6	420	18.5	140

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4×2×24 AWG + 2×18 AWG (or 4C)	28.40	300/500 V (45–100 Ω data)	−30…+70 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−30…+70 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 V (High-Power Hybrid)	−30…+70 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- NEDU 7-84 / NAVSEA Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

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/lu-001-cable

Typical values for this cable type, based on NEDU Report 7-84 / NAVSEA S0300-BB-MAN-010. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.