DNV-OS-E402 1,500 psi saturation diving bell & excursion umbilical

UDT0205 / UDF0105

1,500 PSI Saturation Diving Bell Excursion Umbilical

DNV-OS-E402 / IMCA D 078 · 0.6/1 kV · Dnv-os-e402 1,500 psi saturation diving bell &



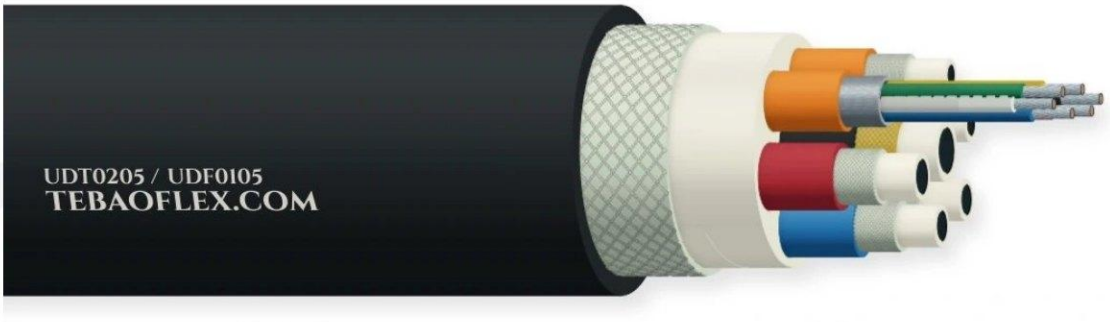
DNV-OS-E402 / IMCA D 078 | **1,500 PSI Heliox + Reclaim** | **440–1,000 V Bell Sub-Cables**

Application

UDT0205 / UDT0304 & UDF0105 / UDF0302 1500 PSI Saturation Diving Bell Excursion & Main Bell Umbilical (DNV-OS-E402 / IMCA D 078, 0.6/1 kV, -30 to +70 °C, min. bend radius 12 × 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. Crush-Resistant Gas Reclaim Hose (HDR0208/0112)
2. 1,500 PSI Heliox & Hot-Water Hoses
3. Gas Reclaim & Hot-Water Hose Covers
4. Saturation Comms, Video & Monitoring Cable
5. Main Bell Umbilical Braid & PUR Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell)	**Core / conductor construction**	Crush-Resistant Gas Reclaim Hose (HDR0208/0112) — Central crush-resistant Heliox reclaim hose (up to 1,250 psi external collapse rating)
Primary dielectric / buffering	1,500 PSI Heliox & Hot-Water Hoses — Low-VOC TPE core tubes + multi-layer yarn braids (102 bar WP / 410 bar burst)	**Continuous operating temperature**	−30…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Main Bell Umbilical Braid & PUR Jacket — Synthetic fiber reinforcement braid + heavy-duty black polyurethane outer sheath	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	Saturation Comms, Video & Monitoring Cable — Screened multicore diver communication, video and telemetry sub-cable	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell		

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
UDT0205 / UDF0105 Construction Schedule (−30…+70 °C) 3 sizes						
☐ **UDT0205 3-Part / Compact Assembly**	Gas/Hydraulic Hose + Power + Comms/Coax	Helical cabled composite umbilical	28.5	920	25.0	285
☐ **UDT0205 4-Part / Standard Assembly**	Dual Hose + 75 Ω Video Coax + Comms Pairs	Helical cabled composite umbilical	36.0	1,540	48.0	360
☐ **UDT0205 Heavy Bell / Intervention**	Multi-Hose + 3×Coax + Power/Signal Quads	Aramid-reinforced subsea umbilical	54.0	3,420	90.0	540

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
Gas/Hydraulic Hose + Power + Comms/Coax	4.95	0.6/1 kV + 35–240 bar Fluid	−30…+70 °C
Dual Hose + 75 Ω Video Coax + Comms Pairs	3.30	0.6/1 kV + 35–240 bar Fluid	−30…+70 °C
Multi-Hose + 3×Coax + Power/Signal Quads	1.91	0.6/1 kV + 100–240 bar Fluid	−30…+70 °C

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

Standards and approvals

- DNV-OS-E402 / IMCA D 078 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	Email	Web
+86 185 9591 3361	**info@tebaoflex.com**	**tebaoflex.com/cables/udt0205-udf0105**

Typical values for this cable type, based on DNV-OS-E402 / IMCA D 078 1,500 PSI Saturation Diving Bell. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.