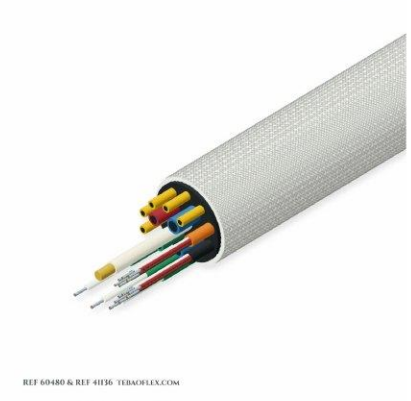
Central-aramid 9-hose monopiece diving bell & hookah umbilical

REF 60480 & REF 41136

9-Hose Diving Bell & Hookah Diving Umbilical

IMCA D 014 / Bell Umbilical · 300/500 V · Central-aramid 9-hose monopiece diving bell

≥6,000 daN Central Aramid | 9 Hoses + 3×75 Ω KX8 | Diving Bell Monopiece



Application

REF 60480 (Central-Aramid 9-Hose + 3×KX8 Coax + 12×2.5mm² Diving Bell Monopiece Umbilical) & REF 41136 (KX6 Coax + Dual-Pair PUR Deep-Sea Hookah Diving Cable) (IMCA D 014 / Bell Umbilical, 300/500 V, -25 to +70 °C).

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 Aramid Strength Core (≥6,000 daN)
2. 9 Breathing, Hot-Water & Pneumo Hoses
3. Video Coaxes (3×KX8 / 1×KX6 75 Ω)
4. Shielded Power & Comms Sub-Cables
5. Overall Tape & Polypropylene Outer Braid

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical)	**Core / conductor construction**	Central Aramid Strength Core (≥6,000 daN) — High-modulus central aramid tension member supporting diving bell deployment
Primary dielectric / buffering	9 Breathing, Hot-Water & Pneumo Hoses — 1 × 3/4" main gas hose + 3 × 1/2" hot-water/reclaim hoses + 5 × 1/4" pneumo hoses	**Continuous operating temperature**	−25…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Overall Tape & Polypropylene Outer Braid — Overall assembling tape + heavy white polypropylene protection braid (Ø 81 ± 2 mm)	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	Shielded Power & Comms Sub-Cables — 1 × (12×2.5 mm²) shielded power cable + 1 × (7×2×0.5 mm²) shielded comms cable	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical		

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
REF 60480 & REF 41136 Construction Schedule (−25…+70 °C) 3 sizes						
☐ **REF 60480 3-Part / Compact Assembly**	Gas/Hydraulic Hose + Power + Comms/Coax	Helical cabled composite umbilical	28.5	920	25.0	285
☐ **REF 60480 4-Part / Standard Assembly**	Dual Hose + 75 Ω Video Coax + Comms Pairs	Helical cabled composite umbilical	36.0	1,540	48.0	360
☐ **REF 60480 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 IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical.

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	300/500 V + 35–240 bar Fluid	−25…+70 °C
Dual Hose + 75 Ω Video Coax + Comms Pairs	3.30	300/500 V + 35–240 bar Fluid	−25…+70 °C
Multi-Hose + 3×Coax + Power/Signal Quads	1.91	300/500 V + 100–240 bar Fluid	−25…+70 °C

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

Standards and approvals

- IMCA D 014 / Bell Umbilical 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/ref-60480-ref-41136

Typical values for this cable type, based on IMCA D 014 / DNV-ST-E402 Monopiece Diving Bell Umbilical. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.