Oceanographic data buoy umbilical & faired sonar tow cable

REF 31555 & REF 26896

Oceanographic Buoy & Faired Sonar Tow Cable

Oceanographic Buoy Std · 600 V · Oceanographic data buoy umbilical & faired sonar tow



5,000–9,000 daN Strength | **15 bar Hoses / 3×Coax** | **Oceanographic & Sonar Buoy**

Application

REF 31555 (Central-Aramid 4-Hose Oceanographic Measurement Buoy Umbilical) & REF 26896 (3×50–60Ω FEP/ETFE Coax Double-Steel-Armoured Faired Towed Sonar Buoy Cable) (Oceanographic Buoy Std, 600 V, -20 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 Core (5,000 daN)
2. 4 PVC Fluid Hoses (15 bar WP / 50 bar Burst)
3. Power & Telemetry Sub-Cables / 3×Coax
4. PVC Inner Sheath & Fillers
5. Polyurethane Outer Sheath (Ø63 ± 1 mm)

Technical data

Typical values

Rated voltage / transmission duty	600 V (Oceanographic Measurement Buoy & Faired Sonar Tow Standard)	**Core / conductor construction**	Central Aramid Core (5,000 daN) — High-modulus central aramid strength core (or double steel wire armor >9,000 daN on REF 26896)
Primary dielectric / buffering	4 PVC Fluid Hoses (15 bar WP / 50 bar Burst) — Four extruded PVC water-sampling and pneumatic hoses cabled around central core	**Continuous operating temperature**	−20…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per Oceanographic Measurement Buoy & Faired Sonar Tow Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Polyurethane Outer Sheath (Ø63 ± 1 mm) — Black abrasion-resistant PUR jacket (REF 26896 fitted with hydrodynamic flexible careens)	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	PVC Inner Sheath & Fillers — Interstitial fillers + extruded PVC inner sheath (HDPE inner sheath on REF 26896)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per Oceanographic Measurement Buoy & Faired Sonar Tow Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per Oceanographic Measurement Buoy & Faired Sonar Tow Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	Oceanographic Measurement Buoy & Faired Sonar Tow Standard		

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 31555 & REF 26896 Construction Schedule (−20…+70 °C) 3 sizes						
☐ **REF 31555 3-Part / Compact Assembly**	Gas/Hydraulic Hose + Power + Comms/Coax	Helical cabled composite umbilical	28.5	920	25.0	285
☐ **REF 31555 4-Part / Standard Assembly**	Dual Hose + 75 Ω Video Coax + Comms Pairs	Helical cabled composite umbilical	36.0	1,540	48.0	360
☐ **REF 31555 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 Oceanographic Measurement Buoy & Faired Sonar Tow Standard.

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	600 V + 35–240 bar Fluid	−20…+70 °C
Dual Hose + 75 Ω Video Coax + Comms Pairs	3.30	600 V + 35–240 bar Fluid	−20…+70 °C
Multi-Hose + 3×Coax + Power/Signal Quads	1.91	600 V + 100–240 bar Fluid	−20…+70 °C

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

Standards and approvals

- ✓ Oceanographic Buoy Std 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/ref-31555-ref-26896**

Typical values for this cable type, based on Oceanographic Measurement Buoy & Faired Sonar Tow Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.