18,000 daN aramid electro-hydraulic subsea welding umbilical

REF 58361 & REF 45981

190–240 bar Subsea Welding & Valve Umbilical

SAE 100R8 / 18,000 daN · 0.6/1 kV · 18,000 dan aramid electro-hydraulic subsea welding



190–240 bar Hydraulic | **0.6/1 kV + KX4/KX8 Coax** | **18,000 daN Aramid (Ø70mm)**

Application

REF 58361 & REF 45981 190–240 bar Hydraulic Hoses, KX4/KX8 Coax & Shielded Pairs/Quads Aramid-Braided (18,000 daN) PUR Underwater Welding Machine & Valve Control Umbilical (SAE 100R8 / 18,000 daN, 0.6/1 kV, -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. High-Pressure Hydraulic Hoses (1/2" 190–240 bar)
2. Shielded Power/Control Quads or Sub-Cables
3. Polyurethane Inner Bedding Sheath
4. 18,000 daN Aramid Braided Strength Member
5. Polyurethane Outer Sheath (Ø67 / 70 mm)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (SAE J517 100R8 / 18,000 daN Aramid Subsea Welding Umbilical)	**Core / conductor construction**	High-Pressure Hydraulic Hoses (1/2" 190–240 bar) — 4 × 1/2" SAE 100R8 240 bar hoses (REF 45981) or 2 × 1/2" 190 bar hoses (REF 58361)
Primary dielectric / buffering	Shielded Power/Control Quads or Sub-Cables — 4×(4×2.5 mm²) Cu-braided PUR quads (REF 45981) or 2×16 mm² + 14SP + 28C + KX4/KX8 (58361)	**Continuous operating temperature**	−20…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per SAE J517 100R8 / 18,000 daN Aramid Subsea Welding Umbilical	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Polyurethane Outer Sheath (Ø67 / 70 mm) — Orange (REF 45981) or Black (REF 58361) heavy-duty polyurethane outer jacket	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	18,000 daN Aramid Braided Strength Member — High-modulus aramid fibre braid providing 180 kN tensile load capacity	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per SAE J517 100R8 / 18,000 daN Aramid Subsea Welding Umbilical
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per SAE J517 100R8 / 18,000 daN Aramid Subsea Welding Umbilical	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	SAE J517 100R8 / 18,000 daN Aramid Subsea Welding 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 58361 & REF 45981 Construction Schedule (−20…+70 °C) 3 sizes						
☐ **REF 58361 3-Part / Compact Assembly**	Gas/Hydraulic Hose + Power + Comms/Coax	Helical cabled composite umbilical	28.5	920	25.0	285
☐ **REF 58361 4-Part / Standard Assembly**	Dual Hose + 75 Ω Video Coax + Comms Pairs	Helical cabled composite umbilical	36.0	1,540	48.0	360
☐ **REF 58361 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 SAE J517 100R8 / 18,000 daN Aramid Subsea Welding 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	0.6/1 kV + 35–240 bar Fluid	−20…+70 °C
Dual Hose + 75 Ω Video Coax + Comms Pairs	3.30	0.6/1 kV + 35–240 bar Fluid	−20…+70 °C
Multi-Hose + 3×Coax + Power/Signal Quads	1.91	0.6/1 kV + 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

- SAE 100R8 / 18,000 daN 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-58361-ref-45981

Typical values for this cable type, based on SAE J517 100R8 / 18,000 daN Aramid Subsea Welding Umbilical. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.