240 bar aramid-braided subsea electro-hydraulic valve umbilical

REF 56769 & REF 57330

240 bar Aramid Electro-Hydraulic Valve Umbilical

ISO 13628-5 / SAE 100R8 · 600 V · 240 bar aramid-braided subsea electro-hydraulic

240 bar SAE 100R8 Hoses | **600 V + 22 Shielded Pairs** | **9,000 daN Aramid (Ø84mm)**



Application

REF 56769 (12×3/8" Hoses + 22 Shielded Pairs + 4×1.5mm² Electro-Hydraulic Umbilical) & REF 57330 (8×1/2" SAE100R8 240 bar Hoses + Copper Ballast Aramid-Braided Valve Umbilical) (ISO 13628-5 / SAE 100R8, 600 V, -10 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. Hydraulic Control Hoses (12×3/8" / 8×1/2")
2. Braided & Jacketed Pairs (12×2×1.0 mm²)
3. Composite Sub-Cable (4×1.5 + 10×2×1.0)
4. PUR Inner Sheath & 9,000 daN Aramid Braid
5. Polyurethane Outer Sheath (Ø83.5 / 84 mm)

Technical data

Typical values

Rated voltage / transmission duty	600 V (ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic)	**Core / conductor construction**	Hydraulic Control Hoses (12×3/8" / 8×1/2") — 12 × 3/8" hoses (REF 56769) or 8 × 1/2" SAE 100R8 240 bar hoses + Cu ballast (REF 57330)
Primary dielectric / buffering	Braided & Jacketed Pairs (12×2×1.0 mm²) — 12 pairs of 1.0 mm² tinned copper with individual tinned Cu braid & PUR sheath (600 V)	**Continuous operating temperature**	−10…+70 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Polyurethane Outer Sheath (Ø83.5 / 84 mm) — Heavy-duty black polyurethane outer jacket (–10 °C to +70 °C, 5.36 kg/m)	**Minimum bending radius**	12 × OD
Hydrostatic, tensile & crush duty	PUR Inner Sheath & 9,000 daN Aramid Braid — Extruded PUR inner bedding + aramid fibre braided strength member (90 kN)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic		

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 56769 & REF 57330 Construction Schedule (−10…+70 °C) 3 sizes							
☐	**REF 56769 3-Part / Compact Assembly**	Gas/Hydraulic Hose + Power + Comms/Coax	Helical cabled composite umbilical	28.5	920	25.0	285
☐	**REF 56769 4-Part / Standard Assembly**	Dual Hose + 75 Ω Video Coax + Comms Pairs	Helical cabled composite umbilical	36.0	1,540	48.0	360
☐	**REF 56769 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 ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic.

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	−10…+70 °C
Dual Hose + 75 Ω Video Coax + Comms Pairs	3.30	600 V + 35–240 bar Fluid	−10…+70 °C
Multi-Hose + 3×Coax + Power/Signal Quads	1.91	600 V + 100–240 bar Fluid	−10…+70 °C

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

Standards and approvals

- ISO 13628-5 / SAE 100R8 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-56769-ref-57330

Typical values for this cable type, based on ISO 13628-5 / SAE J517 100R8 240 bar Electro-Hydraulic. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.