IP68 swimming pool & fountain spotlight power/DMX & silicone cable

9.6150 / 9.6250 POOL CABLE

9.6150 (DMX) & 9.6250 (180°C Silicone) IP68 Pool Spotlight Cable



EN 60598-2-18 / VDE 0100 · 300/500 V · Ip68 swimming pool & fountain spotlight

DIN EN 60598-2-18 IP68 | **12–30 V SELV (300/500 V)** | **DMX Hybrid & 180°C SIR**

Application

Art. No. 9.6150.xx.xx (Special Underwater Power & DMX Hybrid Cable) & 9.6250.xx.xx (High-Temperature Underwater Silicone Cable) for IP68 Swimming Pool & Fountain Spotlights (EN 60598-2-18 / VDE 0100, 300/500 V, -40 to +180 °C).

Typical uses: Deep-Well Potable Water Pumping, Municipal Sewage & Wastewater Plants, Mine Dewatering & Slurry Dredging, Geothermal, Spa & Pool Installations

Construction





Cross-section, not to scale

1. SELV High-Current Cores (2×4.0 / 6.0 mm²)
2. DMX / RGBW / NTC Control Cores (4×0.5 mm²)
3. Anti-Capillary Water-Blocking Filler
4. Chlorine-Resistant UW Elastomer / Silicone

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain)	**Core / conductor construction**	SELV High-Current Cores (2×4.0 / 6.0 mm²) — DIN EN 60228 Class 5 flexible copper cores minimizing 12/24 V DC voltage drop
Primary dielectric / buffering	DMX / RGBW / NTC Control Cores (4×0.5 mm²) — Four 0.5 mm² control conductors for DMX512 dimming and NTC thermal sensing	**Continuous operating temperature**	−40…+180 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Chlorine-Resistant UW Elastomer / Silicone — 9.6150 chlorine/ozone-resistant elastomer/PUR or 9.6250 180 °C silicone sheath	**Minimum bending radius**	6 × OD
Hydrostatic, tensile & crush duty	Anti-Capillary Water-Blocking Filler — Hydrophobic interstitial filler preventing pool-water wicking into IP68 spotlights	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain		

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
9.6150 / 9.6250 POOL CABLE Construction Schedule (−40…+180 °C) 3 sizes						
☐ **9.6150 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **9.6150 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **9.6150 Config C (Heavy Hybrid)**	8×2×20 AWG + 4×12 AWG (or 12C)	Stranded tinned Cu (IEC 60228 / ASTM)	16.6	420	18.5	140

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4×2×24 AWG + 2×18 AWG (or 4C)	28.40	300/500 V (45–100 Ω data)	−40…+180 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−40…+180 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 V (High-Power Hybrid)	−40…+180 °C

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

Standards and approvals

- EN 60598-2-18 / VDE 0100 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/9-6150-9-6250-pool-cable

Typical values for this cable type, based on DIN EN 60598-2-18 / VDE 0100-702 IP68 Pool & Fountain. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.