VG 95218-29 61 bar pressure-resistant submarine outboard cable

VG 95218-29 (LWDC / PLWDC / PLWDC-C)

61 bar Submarine Outboard Cable



VG 95218-29 (61 bar) · 600 V · Vg 95218-29 61 bar pressure-resistant submarine

VG 95218-29 (Types B–N) | **500–600 V AC / 900 V DC** | **61 bar (610 m) Outboard**

Application

German Military Standard VG 95218-29 (Types B to N: LWDC, PLWDC, PLWDCC, PLWDC-C, LWD) 61 bar Pressure-Resistant Submarine Outboard Watertight Cable (VG 95218-29 (61 bar), 600 V, -30 to +85 °C, min. bend radius 8 × OD).

Typical uses: Naval Shipboard & Submarine Outboard, Offshore Cathodic Protection (ICCP), Underwater Welding & Nuclear Pools, Deep-Well & Seabed Pump Feeders

Construction





Cross-section, not to scale

1. Water-Blocked Conductors (4×2×0.75 mm²)
2. Isolated Pair Braid & Inner Covering
3. Water-Blocking Fillers & Swelling Tapes
4. Outer Tinned Copper Braid Shield
5. Halogen-Free PUR / LSZH Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	600 V (German Military VG 95218-29 (Types B–N) 61 bar Outboard)	**Core / conductor construction**	Water-Blocked Conductors (4×2×0.75 mm²) — Fine-stranded tin-plated copper + black white-numbered special elastomer
Primary dielectric / buffering	Isolated Pair Braid & Inner Covering — Tin-plated copper braid per pair + extruded elastomer inner covering (Type L / F)	**Continuous operating temperature**	−30…+85 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per German Military VG 95218-29 (Types B–N) 61 bar Outboard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Halogen-Free PUR / LSZH Outer Sheath — Black flame-retardant polyurethane HFS 100 (Type G–N) or LSZH elastomer (Type B–F)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Outer Tinned Copper Braid Shield — High-density tin-plated copper braid outer shield (Zt ≤ 15 mΩ/m)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per German Military VG 95218-29 (Types B–N) 61 bar Outboard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per German Military VG 95218-29 (Types B–N) 61 bar Outboard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	German Military VG 95218-29 (Types B–N) 61 bar Outboard		

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
VG 95218-29 (LWDC / PLWDC / PLWDC-C) Construction Schedule (−30…+85 °C) 3 sizes						
☐ **VG 95218-29 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **VG 95218-29 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **VG 95218-29 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 German Military VG 95218-29 (Types B–N) 61 bar Outboard.

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	600 V (45–100 Ω data)	−30…+85 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	600 V (45–100 Ω data)	−30…+85 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	600 V (High-Power Hybrid)	−30…+85 °C

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

Standards and approvals

- VG 95218-29 (61 bar) 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/vg-95218-29-lwdc-plwdc-plwdc-c

Typical values for this cable type, based on German Military VG 95218-29 (Types B–N) 61 bar Outboard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.