shipboard & offshore power cable

VG 95218-60 & VG 95218-61 (MGSGO / LMGSGO)

0.6/1 kV & 300/500 V Thin-W



VG 95218-60 / 95218-61 · 0.6/1 kV · Shipboard & offshore power cable

VG 95218-60 / 95218-61 | **0.6/1 kV (-35 to +90 °C)** | **Naval Cross-Linked LSZH Outer Jacket**

Application

VG 95218-60 & VG 95218-61 (MGSGO / MGGO & LMGSGO) 0.6/1 kV & 300/500 V Cross-Linked EPR/Polyalkene Thin-Wall High-EMC Copper-Braided LFH Naval Shipboard Power & Control Cable (VG 95218-60 / 95218-61, 0.6/1 kV, -35 to +90 °C).

Typical uses: Commercial Vessels & Cruise Ships, Offshore Oil & Gas Platforms (FPSO), Jack-Up & Semi-Submersible Drilling Rigs, Naval Surface Vessels & Submarines

Construction





Cross-section, not to scale

1. Tinned Copper Conductors (5×4.0 mm²)
2. Thin-Wall Cross-Linked Insulation
3. EMC-Optimized Tinned Copper Braid (Teil
4. Naval Cross-Linked LSZH Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO))
Primary dielectric / buffering	Thin-Wall Cross-Linked Insulation — Weight-saving halogen-free cross-linked dielectric for warships
Short-circuit / peak thermal rating	Verified thermal stability per German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO)
Outer protection / armouring	Naval Cross-Linked LSZH Outer Jacket — Black oil-, fuel- and seawater-resistant low-toxicity elastomer sheath
Armour, screen & mechanical duty	EMC-Optimized Tinned Copper Braid (Teil 61) — High-coverage tinned copper wire braid with low transfer impedance
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO)
Standards	German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO)
Core / conductor construction	Tinned Copper Conductors (5×4.0 mm²) — Finely stranded tinned annealed copper (VG 95218 Teil 60/61)
Continuous operating temperature	−35…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	6 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO)
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

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 95218-60 & VG 95218-61 (MGSGO / LMGSGO) Construction Schedule (−35…+90 °C) 3 sizes						
☐ **VG 95218-60 3×16+1G16 mm²**	**3 × 16 + 1G16 mm² (4G16)**	**IEC 60228 Class 2/5 Cu/SnCu**	**22.4**	**920**	**3.8**	**135**
☐ **VG 95218-60 3×35+1G16 mm²**	**3 × 35 + 1G16 mm² (4G35)**	**IEC 60228 Class 2/5 Cu/SnCu**	**28.8**	**1,690**	**7.4**	**175**
☐ **VG 95218-60 3×70+1G35 mm²**	**3 × 70 + 1G35 mm² (4G70)**	**IEC 60228 Class 2/5 Cu/SnCu**	**38.2**	**3,260**	**14.8**	**230**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO).

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (4G16)	**1.15**	**0.6/1 kV (98 A)**	**−35…+90 °C**
3 × 35 + 1G16 mm² (4G35)	**0.52**	**0.6/1 kV (158 A)**	**−35…+90 °C**
3 × 70 + 1G35 mm² (4G70)	**0.27**	**0.6/1 kV (245 A)**	**−35…+90 °C**

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

Standards and approvals

- VG 95218-60 / 95218-61 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-95218-60-vg-95218-61-mgsgo-lmgsgo

Typical values for this cable type, based on German Navy Standard VG 95218 Teil 60 (MGGO) & Teil 61 (MGSGO / LMGSGO). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.