marine & naval control cable

VG 95218-27 & VG 95218-28 (T027A / T028A)

600 V Dual-Wall Double-Braid



VG 95218-27 / 95218-28 · 600 V · Marine & naval control cable

VG 95218-27 / 95218-28 | **600 V (-55 to +105 °C)** | **FDR-25 / Zero-Halogen Cross-Linked J**

Application

VG 95218-27 & VG 95218-28 (VG95218T027A / VG95218T028A) 600 V Dual-Wall Polyalkene/PVDF Insulated Double Optimized Tin-Copper Braided FDR25/Zero-Halogen Naval & Defense Harness Cable (VG 95218-27 / 95218-28, 600 V, -55 to +105 °C).

Typical uses: Naval Frigate, Destroyer & Submarine Systems, Shipboard Propulsion & Auxiliary Control, Offshore Drilling Rig Control Rooms, Marine Switchgear & Console Interconnects

Construction





Cross-section, not to scale

1. Dual-Wall Irradiated Cores (19×20 AWG)
2. Double Optimized Tinned Copper Braid (T0
3. FDR-25 / Zero-Halogen Cross-Linked Jacke

Technical data

Typical values

Rated voltage / transmission duty	600 V (German Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A))
Primary dielectric / buffering	Double Optimized Tinned Copper Braid (T028A) — Two high-coverage tinned copper braids engineered for broad-spectrum EMC
Short-circuit / peak thermal rating	Verified thermal stability per German Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A)
Outer protection / armouring	FDR-25 / Zero-Halogen Cross-Linked Jacket — Radiation-crosslinked fluid-, diesel- and flame-resistant naval sheath
Armour, screen & mechanical duty	Double Optimized Tinned Copper Braid (T028A) — Two high-coverage tinned copper braids engineered for broad-spectrum EMC
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per German Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A)
Standards	German Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A)
Core / conductor construction	Dual-Wall Irradiated Cores (19×20 AWG) — Tinned copper + cross-linked polyolefin inner + PVDF outer primary layer
Continuous operating temperature	−55…+105 °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 Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A)
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 95218-27 & VG 95218-28 (T027A / T028A) Construction Schedule (−55…+105 °C) 3 sizes						
☐ **VG 95218-27 4G2.5 mm²**	**4 × 2.5 mm² (or 4C × 14 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**13.2**	**275**	**1.5**	**80**
☐ **VG 95218-27 7G2.5 mm²**	**7 × 2.5 mm² (or 7C × 14 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**15.8**	**415**	**2.6**	**95**
☐ **VG 95218-27 12G1.5 mm²**	**12 × 1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 2/5 Cu/SnCu**	**17.4**	**495**	**2.7**	**105**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per German Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A).

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4 × 2.5 mm² (or 4C × 14 AWG)	**7.98**	**600 V (26 A)**	**−55…+105 °C**
7 × 2.5 mm² (or 7C × 14 AWG)	**7.98**	**600 V (21 A)**	**−55…+105 °C**
12 × 1.5 mm² (or 12C × 16 AWG)	**13.30**	**600 V (14 A)**	**−55…+105 °C**

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

Standards and approvals

- VG 95218-27 / 95218-28 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-95218-27-vg-95218-28-t027a-t028a

Typical values for this cable type, based on German Military Standard VG 95218 Part 27 (T027A) & Part 28 (T028A). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.