MIL-DTL-915/8H 500 psi submarine outboard sonar & hydrophone cable

MIL-DTL-915/8H (DSS / TSS / FSS / 7SS)

600 V Submarine Outboard Cable

MIL-DTL-915/8H · 600 V · Mil-dtl-915/8h 500 psi submarine outboard sonar & hydrophone



MIL-DTL-915/8H Outboard | **600 V (500 PSI Zero-Leak)** | **≥90% Tinned Cu Braid**

Application

MIL-DTL-915/8H Types DSS, TSS, FSS & 7SS 600 V Submarine Outboard Pressure-Tight Shielded Hydrophone & Sonar Rubber Cable (For Outboard Use Only) (MIL-DTL-915/8H, 600 V, -40 to +80 °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. Blocked 7-Strand Tinned Cu (DSS/TSS/FSS/7SS)
2. 600 V Synthetic Rubber Insulation
3. Strippable Synthetic Rubber Inner Belt
4. Tinned Copper Braid Shield (≥90%)
5. Heavy-Duty Polychloroprene Jacket

Technical data

Typical values

Rated voltage / transmission duty	600 V (MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard)	**Core / conductor construction**	Blocked 7-Strand Tinned Cu (DSS/TSS/FSS/7SS) — Navy Strand blocked tinned copper conductors (18, 16 & 14 AWG; 500 psi zero leak)
Primary dielectric / buffering	600 V Synthetic Rubber Insulation — 0.51–0.64 mm synthetic rubber insulation (3,000 V RMS / 5 min core-to-core test)	**Continuous operating temperature**	−40…+80 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Heavy-Duty Polychloroprene Jacket — 1.27–2.16 mm black polychloroprene rubber jacket (–40 °C mandrel bend qualified)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Tinned Copper Braid Shield (≥90%) — 34 AWG tinned copper wire braid (≥50° braid angle, ≥90% optical coverage)	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard		

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
MIL-DTL-915/8H (DSS / TSS / FSS / 7SS) Construction Schedule (−40…+80 °C) 3 sizes						
☐ **MIL-DTL-915 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **MIL-DTL-915 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **MIL-DTL-915 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 MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard.

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)	−40…+80 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	600 V (45–100 Ω data)	−40…+80 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	600 V (High-Power Hybrid)	−40…+80 °C

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

Standards and approvals

- MIL-DTL-915/8H 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/mil-dtl-915-8h-dss-tss-fss-7ss

Typical values for this cable type, based on MIL-DTL-915/8H Types DSS / TSS / FSS / 7SS Outboard Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.