



Control & signal cable

WF-8/G

Tactical Field-Deployable Quad-Conductor Shielded

MIL-Spec WF-8/G 600 V -55 to +80 °C braided-shield neoprene tactical star-quad cable



U.S. Military WF-8/G

Spiral-Four Shielded Quad

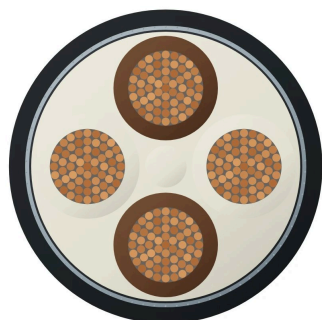
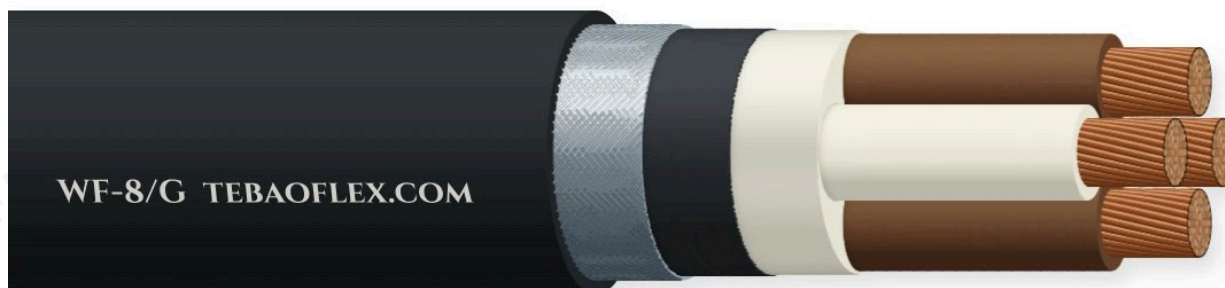
-55 °C to +80 °C Neoprene

Application

WF-8/G tactical field-deployable 4-conductor (spiral-four star-quad) shielded communication cable (600 V, -55 to +80 °C) with four high-tensile 19 AWG (0.65 mm²) Sn-Cu/alloy cores, low-loss PE insulation, braided EMC shield, and arctic neoprene jacket.

Typical uses: Tactical Command Post & TOC Trunk Lines, Air-Defense Radar & Missile Launcher Remoting, Mobile HF/VHF/UHF Radio-Site Remote Control, Field Artillery Fire-Direction Data Links, Harsh-Environment Geophysical & Oilfield Telemetry

Construction



Cross-section, not to scale

- 1 High-tensile 19 AWG quad cores
- 2 Low-loss polyethylene (PE)
- 3 Stabilising belt wrap
- 4 Braided EMC + tensile shield
- 5 Arctic polychloroprene jacket

Technical data

Typical values

Rated voltage	600 V RMS (2,000 V AC test)	Conductor DC resistance	≤ 28.5 Ω/km (≤ 57 Ω/km loop) at +20 °C
Mutual capacitance	≤ 48 nF/km at 1 kHz (side circuit)	Characteristic impedance	Approx. 135 Ω (carrier/data) · 450 Ω (1 kHz)
Operating temperature range	-55 °C to +80 °C (-67 °F to +176 °F)	Arctic cold-bend test	-55 °C without jacket cracking
Quad construction	4 × 19 AWG (0.65 mm²) spiral-four star-quad	Tensile breaking strength	≥ 2,200 N (500 lbf) with braided shield
Min. bending radius	8 × overall cable diameter (dynamic)	Oil, fuel & chemical resistance	Polychloroprene resists JP-8, diesel & oil
Crush & vehicle run-over	Thick-wall neoprene + braided wire armour/shield	Standards	CECOM WF-8/G · MIL-C-10581 · FM 24-20

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	Cross-section / size	Conductor build	Wall ≈ mm	Outer Ø ≈ mm	Metal kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard WF-8/G configurations 3 sizes							
☐ WF-8/G 1×4×19AWG (0.65 mm²)	1×4×0.65 mm²	Solid / Stranded Cu	1.10	9.50	59.4	135.0	76
☐ WF-8/G 402 m Reel Assembly	1×4×0.65 mm²	Solid / Stranded Cu	1.10	9.50	59.4	135.0	76
☐ WF-8/G 1×4×16AWG (1.31 mm²)	1×4×1.31 mm²	Solid / Stranded Cu	1.25	11.40	85.8	195.0	92

– Outer diameters and weights are nominal engineering values for WF-8/G subject to standard manufacturing tolerances per U.S. Military CECOM / MIL-C-10581 / TM 11-5805 Cable WF-8/G Tactical Shielded Quad.

Electrical & rating data

3 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
1×4×0.65 mm²	57.00	48.0	40.8	2,500
1×4×0.65 mm²	57.00	48.0	40.8	2,500
1×4×1.31 mm²	28.00	50.0	42.5	2,500

– Electrical resistance at +20 °C and dielectric withstand voltages verified per U.S. Military CECOM / MIL-C-10581 / TM 11-5805 Cable WF-8/G Tactical Shielded Quad.

Standards and approvals

- ✓ U.S. Military CECOM / MIL-C-10581 / TM 11-5805 Cable WF-8/G Tactical Shielded Quad
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC Compliance Verified

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/wf-8-g-tactical-field-deployable-quad-conductor-shielded-communication-cable



Typical values for this cable type, based on U.S. Military CECOM / MIL-C-10581 / TM 11-5805 Cable WF-8/G Tactical Shielded Quad. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.