



Control & signal cable

WD-1-TT / WD-1A-TT

Tactical Field Telephone Wire

MIL-DTL-13075 4×Sn-Cu + 3×steel composite-core HDPE/Nylon tactical field telephone wire



MIL-DTL-13075 (WD-1/TT)

4×Sn-Cu + 3×Steel (≥ 890 N)

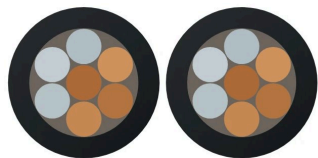
-55 °C to +80 °C HDPE + Nylon

Application

WD-1-TT / WD-1A-TT (MIL-DTL-13075) 2-conductor tactical field telephone wire (-55 to +80 °C) with a 7-strand bimetallic conductor (4 tinned copper + 3 galvanised steel strands, ≥ 890 N / 200 lbf break load), HDPE insulation, and an OD Nylon jacket.

Typical uses: Tactical Field Telephone Networks (TA-312 / TA-838 / TA-1042), Military Forward Operating Base SHDSL / VoIP Links, Artillery Fire-Control & Range Target Telemetry, EOD / Demolition Firing & Initiator Lines, Emergency Disaster-Relief Rapid Field Comms

Construction



Cross-section, not to scale

- 1 4×Sn-Cu + 3×Steel composite core
- 2 HDPE primary dielectric
- 3 Olive-drab Nylon outer jacket

Technical data

Typical values

Max. DC loop resistance	≤ 148 Ω/km (≤ 238 Ω/mile) at +20 °C	Characteristic impedance	Approx. 600 Ω at 1 kHz (135 Ω @ 1 MHz)
Attenuation at 1 kHz	≤ 0.95 dB/km dry · ≤ 1.9 dB/km wet	Dielectric withstand	1,500 V AC RMS / 500 V operating
Tactical operating temp.	-55 °C to +80 °C (-67 °F to +176 °F)	Cold bend performance	-55 °C mandrel bend without cracking
Conductor stranding	4× tinned Cu + 3× galvanised steel (7×0.28 mm)	Min. breaking strength	≥ 890 N (200 lbf) complete pair
Single conductor OD	Approx. 2.05 mm · Pair width ~4.1 mm	Cable weight	Approx. 17–19 kg/km (60 lb/mile)
Abrasion & cut-through	Tough polyamide (Nylon) outer jacket	Weather, mud & fungus	All-climate tactical immersion & UV rated
Standards	MIL-DTL-13075 (formerly MIL-C-13075)		

Sizes

4 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 WD-1-TT / WD-1A-TT configurations 4 sizes							
☐ WD-1/TT Twisted (DR-8)	1 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	4.10	7.9	18.0	25
☐ WD-1/TT Twisted (RL-159/U)	1 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	4.10	7.9	18.0	25
☐ WD-1A/TT Bonded Pair	1 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	4.20	8.4	19.0	25
☐ WD-1/TT Twisted (1000 m)	1 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	4.10	7.9	18.0	25

– Outer diameters and weights are nominal engineering values for WD-1-TT / WD-1A-TT subject to standard manufacturing tolerances per MIL-DTL-13075 (formerly MIL-C-13075) WD-1/TT & WD-1A/TT Tactical Field Wire.

Electrical & rating data

4 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
1 PR × 20 AWG (4Cu+3Fe)	74.00	4.0	3.4	2,000
1 PR × 20 AWG (4Cu+3Fe)	74.00	4.0	3.4	2,000
1 PR × 20 AWG (4Cu+3Fe)	74.00	4.0	3.4	2,000
1 PR × 20 AWG (4Cu+3Fe)	74.00	4.0	3.4	2,000

– Electrical resistance at +20 °C and dielectric withstand voltages verified per MIL-DTL-13075 (formerly MIL-C-13075) WD-1/TT & WD-1A/TT Tactical Field Wire.

Standards and approvals

- ✓ MIL-DTL-13075 (formerly MIL-C-13075) WD-1/TT & WD-1A/TT Tactical Field Wire
- ✓ 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/mil-dtl-13075-wd-1-tt-wd-1a-tt-copper-clad-steel-tactical-field-telephone-wire



Typical values for this cable type, based on MIL-DTL-13075 (formerly MIL-C-13075) WD-1/TT & WD-1A/TT Tactical Field Wire. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.