



Control & signal cable

WF-16-U

MIL-C-55686 WF-16/U Two-Pair Polyethylene Tactical Field

MIL-C-55686 2-pair (4-core) 4×Sn-Cu + 3×steel HDPE/Nylon tactical field telephone cable



MIL-C-55686 (WF-16/U)

2-Pair (4-Wire Full Duplex)

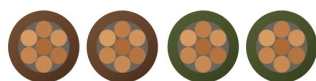
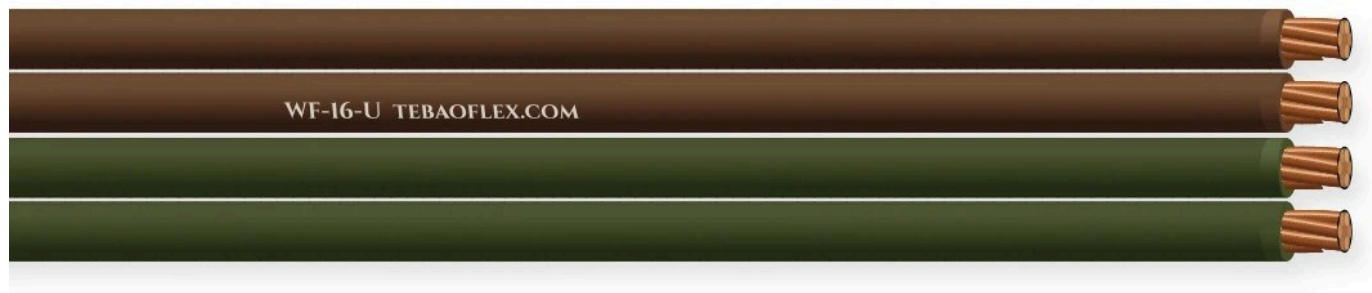
4×Sn-Cu + 3×Steel (≥ 1780 N)

Application

WF-16-U (MIL-C-55686, WF-16/U) two-pair (4-conductor) tactical field telephone and data cable (-55 to +80 °C) cabled from two staggered-twist pairs (1 smooth, 1 ridged), each core 4×Sn-Cu + 3×steel (≥ 1,780 N break) with HDPE + OD Nylon walls.

Typical uses: 4-Wire Full-Duplex Tactical Switchboards, Tactical SHDSL, HDSL & Field Ethernet Extenders, Command Post to Radio-Relay Remote Remoting, Dual-Channel Range Telemetry & Firing Loops, Mobile Airfield & Air-Defense Radar Links

Construction



Cross-section, not to scale

- 1 4×Sn-Cu + 3×Steel composite cores
- 2 HDPE primary insulation
- 3 Olive-drab Nylon outer skin

Technical data

Typical values

Max. DC loop resistance	≤ 148 Ω/km per pair at +20 °C	Near-end crosstalk (NEXT)	≥ 65 dB at 1 kHz (staggered pair twist)
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 mandrel test	-55 °C without cracking
Conductor construction	2 pairs (4 cores) × (4 Sn-Cu + 3 steel strands)	Assembly breaking load	≥ 1,780 N (400 lbf) total 4-core cable
Overall cable diameter	Approx. 5.6 mm (0.22 in) cabled 2-pair	Cable weight	Approx. 36–38 kg/km (130 lb/mile)
Abrasion & cut resistance	Extruded polyamide (Nylon) outer skin	Water, oil & fungus	Submersible HDPE/Nylon tactical construction
Standards	MIL-C-55686 (Wire WF-16/U)		

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-16-U configurations 3 sizes							
☐ WF-16/U (RL-159/U Reel)	2 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	5.60	16.3	37.0	35
☐ WF-16/U (DR-8 Reel)	2 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	5.60	16.3	37.0	35
☐ WF-16/U (1609 m Drum)	2 PR × 20 AWG (4Cu+3Fe)	Solid / Stranded Cu	1.10	5.60	16.3	37.0	35

– Outer diameters and weights are nominal engineering values for WF-16-U subject to standard manufacturing tolerances per MIL-C-55686 (MIL-DTL-55686) Wire WF-16/U Two-Pair Tactical Field Cable.

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
2 PR × 20 AWG (4Cu+3Fe)	74.00	4.0	3.4	2,000
2 PR × 20 AWG (4Cu+3Fe)	74.00	4.0	3.4	2,000
2 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-C-55686 (MIL-DTL-55686) Wire WF-16/U Two-Pair Tactical Field Cable.

Standards and approvals

- ✓ MIL-C-55686 (MIL-DTL-55686) Wire WF-16/U Two-Pair Tactical Field Cable
- ✓ 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-c-55686-wf-16-u-two-pair-polyethylene-tactical-field-telephone-data-cable



Typical values for this cable type, based on MIL-C-55686 (MIL-DTL-55686) Wire WF-16/U Two-Pair Tactical Field Cable. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.