



Control & signal cable

NTMTWÖU

Suspended Mine-Hoist Cable

DIN VDE 0250-812 300/500 V steel-core self-supporting rubber shaft-hoist control cable



DIN VDE 0250-812

300/500 V Shaft Hoist

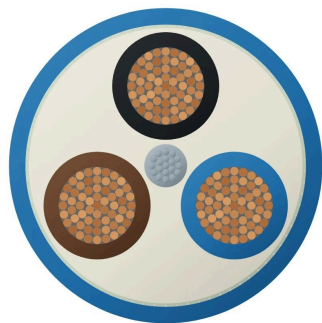
Central Steel Support Rope

Application

NTMTWÖU suspended mine-hoist control cable (DIN VDE 0250-812, 300/500 V) for long vertical free-hanging suspension in underground mine shafts, featuring a central galvanised steel wire support rope, 3GI3 EPR cores, 'TW' anti-torsion braid, and 5GM3 PCP jacket.

Typical uses: Vertical Mine Shaft Signalling, Shaft-Sinking Platforms & Galloway Stages, Deep Submersible Dewatering Controls, Mine Cage Slack-Rope & Shaft Interlocks, Vertical Cavern & Dam Shafts

Construction



Cross-section, not to scale

- 1 Tinned copper conductors
- 2 Central steel support rope
- 3 3GI3 EPR core insulation
- 4 Inner rubber bedding sheath
- 5 TW anti-torsion textile braid
- 6 5GM3 polychloroprene sheath (ÖU)

Technical data

Typical values

Rated voltage U ₀ /U	300/500 V AC (max. operating 330/550 V)	AC dielectric test voltage	2,000 V AC (50 Hz, 5 min)
Conductor DC resistance	IEC 60228 Class 5 tinned copper	Insulation resistance	≥ 100 MΩ·km at +20 °C (3GI3 EPR)
Operating ambient temp.	-35 °C to +70 °C (suspended flexing)	Max. conductor temperature	+90 °C continuous · +250 °C short-circuit
Cold flexibility	Down to -35 °C shaft intake air	Central support element	Galvanised steel rope (18–36 kN break)
Free-hanging shaft length	Up to 500–800 m (with safety factor ≥ 5)	Min. bending radius (dynamic)	12 × overall cable diameter
Torsional stability	Rotation-compensated 'TW' double sheath	Oil & mine water resistance	EN 60811-404 (5GM3 polychloroprene)
Flame retardance	IEC 60332-1-2 self-extinguishing ('U')	Abrasion & tear resistance	Heavy shaft duty double elastomer wall
Standards	DIN VDE 0250-812		

Sizes

13 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 NTMTWÖU configurations 13 sizes							
☐ NTMTWÖU 7G1.5	7G1.5 mm ²	Class 5 Sn-Cu + Steel Core (1.5 mm ²)	1.60	11.40	100.8	267.1	137
☐ NTMTWÖU 12G1.5	12G1.5 mm ²	Class 5 Sn-Cu + Steel Core (1.5 mm ²)	1.80	15.00	172.8	460.8	180
☐ NTMTWÖU 18G1.5	18G1.5 mm ²	Class 5 Sn-Cu + Steel Core (1.5 mm ²)	1.80	17.30	259.2	642.3	208
☐ NTMTWÖU 24G1.5	24G1.5 mm ²	Class 5 Sn-Cu + Steel Core (1.5 mm ²)	1.80	19.70	345.6	842.4	236
☐ NTMTWÖU 30G1.5	30G1.5 mm ²	Class 5 Sn-Cu + Steel Core (1.5 mm ²)	1.80	21.30	432.0	1,012.7	256
☐ NTMTWÖU 36G1.5	36G1.5 mm ²	Class 5 Sn-Cu + Steel Core (1.5 mm ²)	1.80	23.00	518.4	1,195.5	276
☐ NTMTWÖU 7G2.5	7G2.5 mm ²	Class 5 Sn-Cu + Steel Core (2.5 mm ²)	1.60	12.80	168.0	377.7	154
☐ NTMTWÖU 12G2.5	12G2.5 mm ²	Class 5 Sn-Cu + Steel Core (2.5 mm ²)	1.80	16.90	288.0	653.6	203
☐ NTMTWÖU 18G2.5	18G2.5 mm ²	Class 5 Sn-Cu + Steel Core (2.5 mm ²)	1.80	19.60	432.0	923.7	235
☐ NTMTWÖU 24G2.5	24G2.5 mm ²	Class 5 Sn-Cu + Steel Core (2.5 mm ²)	1.80	22.50	576.0	1,224.0	270
☐ NTMTWÖU 30G2.5	30G2.5 mm ²	Class 5 Sn-Cu + Steel Core (2.5 mm ²)	1.80	24.40	720.0	1,482.1	293
☐ NTMTWÖU 7G4	7G4 mm ²	Class 5 Sn-Cu + Steel Core (4 mm ²)	1.60	15.70	268.8	584.3	188
☐ NTMTWÖU 12G4	12G4 mm ²	Class 5 Sn-Cu + Steel Core (4 mm ²)	1.80	20.90	460.8	1,019.9	251

– Outer diameters and weights are nominal engineering values for NTMTWÖU subject to standard manufacturing tolerances per DIN VDE 0250-812 / DIN VDE 0298-3 / DIN VDE 0118.

Electrical & rating data

13 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
7G1.5 mm ²	13.30	18.0	14.0	2,000
12G1.5 mm ²	13.30	18.0	14.0	2,000
18G1.5 mm ²	13.30	18.0	14.0	2,000
24G1.5 mm ²	13.30	18.0	14.0	2,000
30G1.5 mm ²	13.30	18.0	14.0	2,000
36G1.5 mm ²	13.30	18.0	14.0	2,000
7G2.5 mm ²	7.98	26.0	20.0	2,000
12G2.5 mm ²	7.98	26.0	20.0	2,000
18G2.5 mm ²	7.98	26.0	20.0	2,000
24G2.5 mm ²	7.98	26.0	20.0	2,000

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
30G2.5 mm ²	7.98	26.0	20.0	2,000
7G4 mm ²	4.95	34.0	26.0	2,000
12G4 mm ²	4.95	34.0	26.0	2,000

– Electrical resistance at +20 °C and dielectric withstand voltages verified per DIN VDE 0250-812 / DIN VDE 0298-3 / DIN VDE 0118.

Standards and approvals

- ✓ DIN VDE 0250-812 / DIN VDE 0298-3 / DIN VDE 0118
- ✓ 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/ntmtwoeu-suspended-mine-hoist-cable



Typical values for this cable type, based on DIN VDE 0250-812 / DIN VDE 0298-3 / DIN VDE 0118. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.