

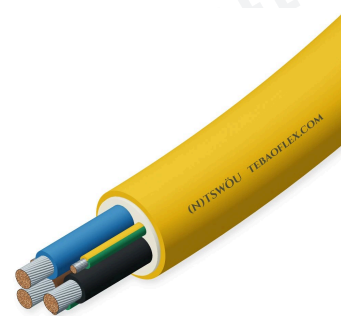


Mining trailing & reeling cables

NTSWÖU-J / NTSWÖU 0.6/1 kV Tunnel & E-Loader Cable

(N)TSWÖU / NTSWÖU-J 0.6/1 kV Tunnel & Mining Cable

DIN VDE 0250-813 0.6/1 kV tunnel trailing & Class 6 LHD e-loader reeling cable



DIN VDE 0250-813

0.6/1 kV · 25–185 mm²

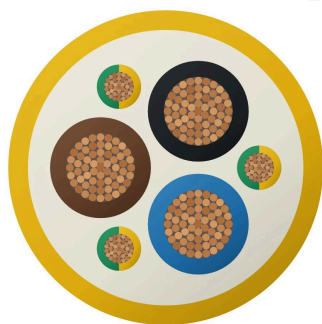
Tunnel Trailing & LHD E-Loader

Application

DIN VDE 0250-813 NTSWÖU-J and NTSWÖU 0.6/1 kV (3 kV AC test) heavy-duty tunnel trailing and underground E-Loader reeling cables (25–185 mm²) with 3GI3 EPR insulation, GM1b inner sheath and yellow or black 5GM5 outer sheath.

Typical uses: Underground electric LHD loaders (E-Loaders), Tunnel construction & drill-jumbo feeds, Subsurface mine haulage, cable cars & winches, Heavy industrial cranes & trolley systems, Damp & flooded mine roadway distribution

Construction



Cross-section, not to scale

1	Phase conductor	DIN VDE 0295
2	Core insulation	DIN VDE 0207-20
3	Interstitial earth / pilot cores	DIN VDE 0250-813
4	Inner sheath	DIN VDE 0207-21
5	Concentric Cu/steel braided earth (E-Loader)	DIN VDE 0250-813
6	Outer sheath	DIN VDE 0207-21

Technical data

Typical values

Rated & test voltage	U0/U 0.6/1 kV AC · Routine dielectric test voltage 3 kV AC	Current carrying capacity	131 A (25 mm ²) to 461 A (185 mm ²) according to DIN VDE 0298-4 (30 °C ambient)
Protective earth & pilot options	NTSWÖU-J: 3 split interstitial earth cores (25/3 to 95/3) · E-Loader: 25 mm ² Cu/steel braided concentric earth (25KON) + 3 pilot cores (3×ST)	Conductor temperature	+90 °C maximum continuous operating temperature · +250 °C short-circuit temperature
Ambient temperature range	Fixed installation -40 °C to +90 °C · Mobile / trailing operation -25 °C to +90 °C	Min. bending radius	According to DIN VDE 0298-3 Table 3 (4 × D fixed installation · 5 × D to 10 × D mobile/reeling)
E-Loader extreme mechanical reinforcement	Combined copper-steel braided concentric armour (25KON) over GM1b inner sheath resists LHD guide-pulley impact, crushing and high tensile loads	Flame & oil resistance	Flame retardant to DIN EN 60332-1-2 / VDE 0482-332-1-2 · Oil resistant to HD/EN/IEC 60811-2-1
Abrasion, tear & wet-heading durability	Dual elastomer sheath (GM1b inner + 5GM5 outer) for dry, damp and flooded underground mines and tunnels	Standards	DIN VDE 0250-813 · DIN VDE 0250-1 · DIN VDE 0207-20 (3GI3) · DIN VDE 0207-21 (GM1b / 5GM5)

Sizes

9 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation DIN VDE 0250-813	Construction Variant	Phase mm ²	Earth / Armour & Pilots	Min. OD mm	Max. OD mm	Mass ≈ kg/km	Tensile 15N/mm ² N	Current 30°C A (VDE 0298-4)
☐ NTSWÖU-J · 3×25 + 3×25/3	NTSWÖU-J (Cl. 5)	25	3×25/3	40.0	44.0	2,470	1,125	131
☐ NTSWÖU-J · 3×35 + 3×25/3	NTSWÖU-J (Cl. 5)	35	3×25/3	44.4	48.4	3,150	1,575	162
☐ NTSWÖU-J · 3×50 + 3×25/3	NTSWÖU-J (Cl. 5)	50	3×25/3	47.7	51.7	3,750	2,250	202
☐ NTSWÖU-J · 3×70 + 3×35/3	NTSWÖU-J (Cl. 5)	70	3×35/3	52.3	56.3	4,690	3,150	250
☐ NTSWÖU-J · 3×95 + 3×50/3	NTSWÖU-J (Cl. 5)	95	3×50/3	59.9	63.9	6,210	4,275	301
☐ NTSWÖU-J · 3×120 + 3×70/3	NTSWÖU-J (Cl. 5)	120	3×70/3	63.8	67.8	7,430	5,400	352
☐ NTSWÖU-J · 3×150 + 3×70/3	NTSWÖU-J (Cl. 5)	150	3×70/3	69.2	73.2	8,900	6,750	404
☐ NTSWÖU-J · 3×185 + 3×95/3	NTSWÖU-J (Cl. 5)	185	3×95/3	73.1	77.1	10,330	8,325	461
☐ NTSWÖU E-Loader · 3×50/25KON+3×ST	E-Loader (Cl. 6 + KON)	50	25KON + 3×ST	54.0	56.0	4,950	2,250	202

- On NTSWÖU E-Loader 3×50/25KON + 3×ST: insulation thickness is 2.0 mm, GM1b inner sheath thickness is 3.0 mm, 5GM5 outer sheath thickness is 5.0 mm, and nominal overall diameter is 56 mm (4,950 kg/km).
- Current ratings are based on DIN VDE 0298-4 at 30 °C ambient temperature; standard drum packing length is 500 m.

Standards and approvals

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.

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Typical values for this cable type, based on DIN VDE 0250-813 · DIN VDE 0298-3 / 0298-4. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.