



Reeling cable

NSHTÖU

Rubber Reeling Cable

LV power and control cable for drums, line chains and moving machinery

DIN VDE 0250-814

U0/U 0.6/1 kV

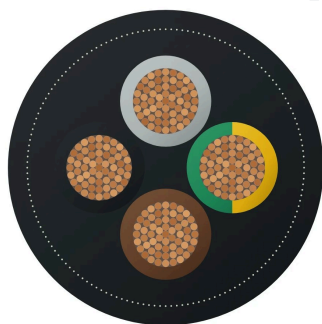


Application

Built for frequent winding under tensile load, torsion and forced bending — on cranes, conveyors and mobile equipment, indoors and outdoors.

Typical uses: Port & gantry cranes, Overhead cranes & hoists, Conveyors & stackers, Transfer cars, Construction machinery, Selected mining plant

Construction



Cross-section, not to scale

1	Conductor	IEC 60228 Class 5
2	Core insulation	Core identification DIN VDE 0293-308
3	Inner sheath	
4	Anti-torsion braid	
5	Outer sheath	

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV	Max. operating voltage AC	0.7/1.2 kV
Max. operating voltage DC	0.9/1.8 kV	AC test voltage	2.5 kV
Current rating	DIN VDE 0298-4	Screen	Unscreened
Temperature, flexing	-25 to +80 °C	Temperature, fixed	-40 to +80 °C
Max. conductor temperature	+90 °C	Short-circuit temperature	+250 °C
Min. bending radius, moving	5 × OD (≤ 20 mm), 6 × OD (> 20 mm)	Min. bending radius, fixed	4 × OD
Max. travel speed	120 m/min	Max. acceleration	0.4 m/s ²
Max. tensile load	15 N/mm ² of conductor cross-section	Torsional stress	± 50 °/m
Oil resistance	EN 60811-404	Flame retardance	IEC 60332-1-2
UV & ozone	Ozone, UV and moisture resistant	Water	Water-resistant
Locations	Dry, damp and wet rooms; outdoors	Standards	DIN VDE 0250-814
Standard packing	Heat-treated timber drums, lagged, sealed ends		

Sizes

34 standard constructions

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

Order designation -J	Order designation -O	Cores × mm ²	AWG ≈	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
1.5 mm ² control 9 sizes								
☐ NSHTÖU-J 3G1.5	NSHTÖU-O 3X1.5	3 × 1.5	16	14.8	43	236	74	68
☐ NSHTÖU-J 4G1.5	NSHTÖU-O 4X1.5	4 × 1.5	16	15.6	58	274	78	90
☐ NSHTÖU-J 5G1.5	NSHTÖU-O 5X1.5	5 × 1.5	16	16.5	72	316	82	112
☐ NSHTÖU-J 7G1.5	NSHTÖU-O 7X1.5	7 × 1.5	16	19.0	101	440	95	158
☐ NSHTÖU-J 12G1.5	NSHTÖU-O 12X1.5	12 × 1.5	16	21.9	173	606	131	270
☐ NSHTÖU-J 16G1.5	NSHTÖU-O 16X1.5	16 × 1.5	16	23.1	230	696	139	360
☐ NSHTÖU-J 18G1.5	NSHTÖU-O 18X1.5	18 × 1.5	16	25.0	260	750	150	405
☐ NSHTÖU-J 24G1.5	NSHTÖU-O 24X1.5	24 × 1.5	16	28.6	346	1,150	172	540
☐ NSHTÖU-J 30G1.5	NSHTÖU-O 30X1.5	30 × 1.5	16	29.6	432	1,325	178	675
2.5 mm ² control 10 sizes								
☐ NSHTÖU-J 3G2.5	NSHTÖU-O 3X2.5	3 × 2.5	14	16.3	72	305	82	112
☐ NSHTÖU-J 4G2.5	NSHTÖU-O 4X2.5	4 × 2.5	14	17.7	96	350	88	150
☐ NSHTÖU-J 5G2.5	NSHTÖU-O 5X2.5	5 × 2.5	14	18.8	120	465	94	188
☐ NSHTÖU-J 7G2.5	NSHTÖU-O 7X2.5	7 × 2.5	14	21.1	168	576	127	262
☐ NSHTÖU-J 12G2.5	NSHTÖU-O 12X2.5	12 × 2.5	14	25.1	288	850	151	450
☐ NSHTÖU-J 18G2.5	NSHTÖU-O 18X2.5	18 × 2.5	14	28.7	432	1,181	172	675
☐ NSHTÖU-J 24G2.5	NSHTÖU-O 24X2.5	24 × 2.5	14	33.2	576	1,550	199	900
☐ NSHTÖU-J 30G2.5	NSHTÖU-O 30X2.5	30 × 2.5	14	34.4	720	1,810	206	1,125
☐ NSHTÖU-J 40G2.5	NSHTÖU-O 40X2.5	40 × 2.5	14	39.4	960	3,110	236	1,500
☐ NSHTÖU-J 50G2.5	NSHTÖU-O 50X2.5	50 × 2.5	14	45.6	1,200	3,200	274	1,875

Order designation -J	Order designation -O	Cores × mm ²	AWG ≈	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
4-core power 10 sizes								
☐ NSHTÖU-J 4G4	NSHTÖU-O 4X4	4 × 4	12	19.2	154	510	96	240
☐ NSHTÖU-J 4G6	NSHTÖU-O 4X6	4 × 6	10	20.6	230	650	124	360
☐ NSHTÖU-J 4G10	NSHTÖU-O 4X10	4 × 10	8	24.9	384	1,010	149	600
☐ NSHTÖU-J 4G16	NSHTÖU-O 4X16	4 × 16	6	29.1	614	1,300	175	960
☐ NSHTÖU-J 4G25	NSHTÖU-O 4X25	4 × 25	4	35.5	960	2,000	213	1,500
☐ NSHTÖU-J 4G35	NSHTÖU-O 4X35	4 × 35	2	38.3	1,344	2,610	230	2,100
☐ NSHTÖU-J 4G50	NSHTÖU-O 4X50	4 × 50	1	43.6	1,920	3,500	262	3,000
☐ NSHTÖU-J 4G70	NSHTÖU-O 4X70	4 × 70	2/0	48.7	2,688	4,600	292	4,200
☐ NSHTÖU-J 4G95	NSHTÖU-O 4X95	4 × 95	3/0	57.3	3,648	6,100	344	5,700
☐ NSHTÖU-J 4G120	NSHTÖU-O 4X120	4 × 120	4/0	62.0	4,860	7,200	372	7,200
5-core power 5 sizes								
☐ NSHTÖU-J 5G4	NSHTÖU-O 5X4	5 × 4	12	20.4	192	635	122	300
☐ NSHTÖU-J 5G6	NSHTÖU-O 5X6	5 × 6	10	23.2	288	800	139	450
☐ NSHTÖU-J 5G10	NSHTÖU-O 5X10	5 × 10	8	26.7	480	1,200	160	750
☐ NSHTÖU-J 5G16	NSHTÖU-O 5X16	5 × 16	6	31.4	768	1,700	188	1,200
☐ NSHTÖU-J 5G35	NSHTÖU-O 5X35	5 × 35	2	38.3	1,750	2,950	230	2,625

- Outer diameter is the maximum of the typical range; use it for drum and guide design.
- G = with green-yellow protective conductor (-J), X = without (-O).

Electrical data

12 sizes

Cross-section mm ²	AWG ≈	Max. conductor resistance 20 °C, Ω/km	Current rating, in air 30 °C, A	Used in
1.5	16	13.7	23	3× 4× 5× 7× 12× 16× 18× 24× 30×
2.5	14	8.21	30	3× 4× 5× 7× 12× 18× 24× 30× 40× 50×
4	12	5.09	41	4× 5×
6	10	3.39	53	4× 5×
10	8	1.95	74	4× 5×
16	6	1.24	99	4× 5×
25	4	0.795	131	4×
35	2	0.565	162	4× 5×
50	1	0.393	202	4×
70	2/0	0.277	250	4×
95	3/0	0.21	301	4×
120	4/0	0.164	352	4×

- Current ratings per DIN VDE 0298-4 for one cable in air at 30 °C; apply reduction factors for wound layers, ambient temperature and grouping.

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.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/nshtoeu-reeling-cable



Typical values for this cable type, based on DIN VDE 0250-814. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.