



Free-hanging round travelling cable

Round Elevator Travelling Cable

Central steel-rope-supported round travelling cable for up to 300 m hang height



300/500 V & 450/750 V

Up to 300 m Hang Height

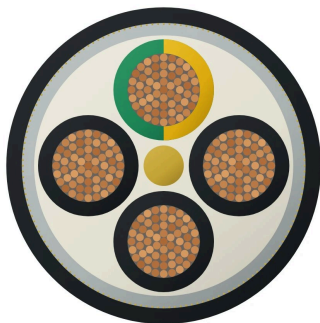
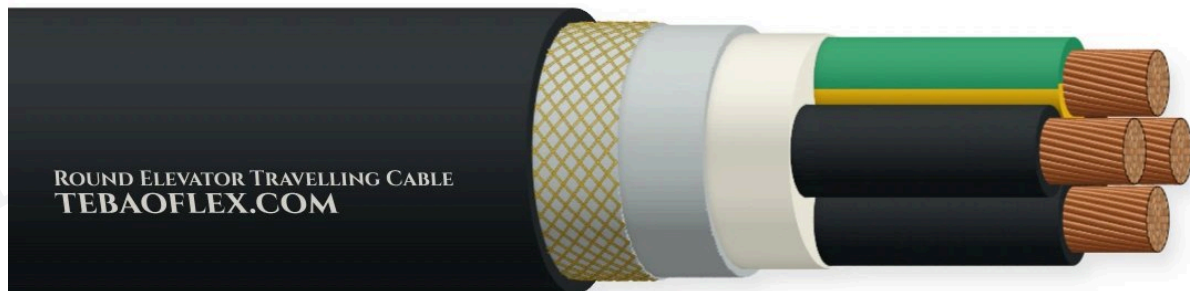
Central Steel Core

Application

High-rise round elevator and hoist travelling cable built with a central galvanised steel wire rope (SWR) suspension core, alternating S/Z counter-laid Class 5 copper cores, anti-torsion textile braid and cold-flexible polychloroprene/elastomer jacket.

Typical uses: High-Rise Passenger & Freight Lifts, Rack-and-Pinion Construction Hoists, Tower Cranes & Mast Climbers, Industrial Chimney & Dam Lifts, Mine Shaft & Silo Inspection Cages

Construction



Cross-section, not to scale

- 1 Fine-stranded copper conductors
- 2 Central load-bearing support core
- 3 Cold-flexible core insulation
- 4 Counter-directional S/Z layer stranding
- 5 Anti-torsion textile reinforcing braid
- 6 Weather- & oil-resistant outer sheath

Technical data

Typical values

Rated voltage U0/U	300/500 V (450/750 V on 1.5 mm ² sizes)	AC test voltage	2500 V AC (3000 V AC on 450/750 V sizes)
Insulation resistance	≥ 20 MΩ·km at 20 °C	Screen / Field control	Unscreened control or screened bus pairs (HYB)
Temperature, flexing	−30 °C to +70 °C	Temperature, fixed installation	−40 °C to +80 °C
Max. conductor temperature	+70 °C (+90 °C EPR option)	Short-circuit temperature	+200 °C (max. 5 s)
Max. free-hanging length	Up to 200–300 m (by central SWR breaking load)	Max. travel speed	Up to 10.0 m/s (elevator shaft) · 4.0 m/s (outdoor)
Max. acceleration	Up to 2.5 m/s ²	Min. natural loop diameter	12 × to 15 × cable OD
Min. bending radius, fixed	6 × OD	Oil resistance	DIN EN 50363-2-1 EM2 (hoist gearbox oils)
Flame retardance	IEC 60332-1-2 self-extinguishing	UV & ozone	Ozone and UV resistant for outdoor tower hoists
Cold impact	Passes −30 °C cold-bend test (IEC 60811-504)	Standards	DIN VDE 0250-606 & EN 50214 test principles

Sizes

14 standard constructions

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

Order designation	Configuration	Max. hang height (m)	Steel core break (kN)	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. loop Ø mm
0.75 mm ² round elevator control & signal travelling cables (12G–36G) 5 sizes							
☐ LIFT-RND-SWR 12G0.75	12G0.75	220	4.5	13.6	86	265	190
☐ LIFT-RND-SWR 18G0.75	18G0.75	250	4.5	15.8	130	358	221
☐ LIFT-RND-SWR 24G0.75	24G0.75	250	6.0	17.6	173	445	246
☐ LIFT-RND-SWR 30G0.75	30G0.75	280	6.0	19.4	216	535	272
☐ LIFT-RND-SWR 36G0.75	36G0.75	300	7.5	21.0	260	632	294
1.0 mm ² high-rise lift & hoist travelling cables (12G–42G) 6 sizes							
☐ LIFT-RND-SWR 12G1.0	12G1.0	220	4.5	14.4	115	312	202
☐ LIFT-RND-SWR 18G1.0	18G1.0	250	6.0	16.8	173	428	235
☐ LIFT-RND-SWR 24G1.0	24G1.0	260	6.0	18.9	230	542	265
☐ LIFT-RND-SWR 30G1.0	30G1.0	280	7.5	20.8	288	655	291
☐ LIFT-RND-SWR 36G1.0	36G1.0	300	7.5	22.6	346	775	316
☐ LIFT-RND-SWR 42G1.0	42G1.0	300	9.0	24.4	403	895	342
1.5 mm ² construction hoist power & hybrid CAN-bus travelling cables 3 sizes							
☐ LIFT-RND-SWR 12G1.5	12G1.5	200	6.0	16.2	173	412	227
☐ LIFT-RND-SWR 18G1.5	18G1.5	220	7.5	18.8	259	568	263
☐ LIFT-RND-HYB 24G1.5+3×(2×0.5)C	24G1.5 + 3×(2×0.5)C	250	9.0	22.4	385	790	314

– Always anchor the central galvanised steel wire rope directly to the shaft wall bracket and car-bottom wedge clamp so zero tensile load is placed on the copper conductors.

Electrical parameters by core size

4 sizes

Core cross-section	Voltage grade	Max. DC R @ 20 °C Ω/km	Ampacity 6-loaded (A)	Ampacity 18-loaded (A)	AC test V _{rms}
0.75 mm ²	300/500 V	26.00	7.5	5.0	2,500
1.00 mm ²	300/500 V	19.50	10.0	6.5	2,500
1.50 mm ²	450/750 V	13.30	13.5	9.0	3,000
(2×0.50 mm ²) C Bus	300 V	39.00	4.5	4.5	1,500

– For long vertical drops (> 100 m), step up from 0.75 mm² to 1.0 mm² or 1.5 mm² to keep 24 V DC / 110 V AC safety-chain voltage drop within EN 81-20 limits.

Standards and approvals

- ✓ CE (2014/35/EU LVD & 2014/33/EU Lift Directive)
- ✓ DIN VDE 0250-606 / EN 50214 Compliant
- ✓ RoHS 2 (2011/65/EU) & REACH Compliant

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/round-elevator-travelling-cable



Typical values for this cable type, based on DIN VDE 0250 / EN 50214. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.