



Vertical spreader reeling cable

TRA-RF

Reinforced PUR Spreader Vertical Reeling Cable

Halogen-free 0.6/1 kV double-PUR vertical & horizontal reeling cable with aramid core



IEC 60502-1 · VDE 0295 Cl. 5

U0/U 0.6/1 kV · Halogen-free

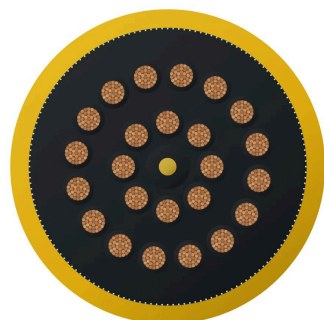
Spreader reel · ≤ 200 m/min

Application

Reinforced 0.6/1 kV double-PUR spreader reeling cable with central aramid-rope elastomer bearer, textile anti-twisting braid and RAL 1021 yellow jacket for portal-crane and spreader reels up to 200 m/min.

Typical uses: Portal crane & ship-to-shore (STS) vertical spreader reels (up to 200 m/min), RTG, RMG & intermodal gantry crane motorized power/control reels, Halogen-free port & terminal material-handling machinery, Outdoor, humid and wet quay-side reeling installations

Construction



Cross-section, not to scale

- 1 Flexible copper conductor
- 2 Thin-wall polyolefin core insulation
- 3 Central aramid-reinforced elastomer element
- 4 Inner sheath
- 5 Anti-twisting textile braid
- 6 Outer sheath

Technical data

Typical values

Rated voltage U0/U	600 / 1,000 V (0.6/1 kV)	Max. operating voltage AC / DC	700 / 1,200 V AC · 900 / 1,800 V DC
AC test voltage	3.5 kV AC per IEC 60502-1	Conductor resistance & voltage drop	Max. R20 = 7.98 Ω/km (2.5 mm ²) · voltage drop 14.0 V/(A·km) at cos φ = 0.8, +90 °C
Current-carrying capacity (30 °C)	20 A (24 G 2.5) · 16 A (42 G 2.5) laid straight at +30 °C (apply drum-layer derating per DIN VDE 0298-4)	Ambient temperature, flexing	-25 to +60 °C
Ambient temperature, fixed	-30 to +60 °C	Max. conductor temperature	+80 °C continuous · +200 °C short-circuit
Max. travel speed	Up to 200 m/min in horizontal and vertical reeling	Permitted tensile load	30 N/mm ² specific load: 1,800 N (24 G 2.5) · 3,150 N (42 G 2.5) via central aramid-reinforced cord
Min. bending radius	6 × D on spool · 9 × D over guiding device / deflection pulley · 4 × D on anti-tension drum	Halogen-free & flame behaviour	Halogen-free double-PUR construction · low flammability class C3 per IEC 60332-1
Oil & chemical resistance	Oil-resistant polyurethane outer and inner sheaths	Weather, UV & moisture	Resistant to ozone, UV radiation, humidity and moisture for outdoor, dry, humid and wet rooms
Standards	IEC 60228 / DIN VDE 0295 / BS 6360 Class 5 flexible bare copper	Standard packing	Heat-treated seaworthy timber drums with waterproof end caps

Sizes

2 standard constructions

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

Configuration	Cores count	Conductor mm ²	Outer Ø min mm	Outer Ø max mm	Spool R min mm (6×D)	Guide R min mm (9×D)	Copper wt ≈ kg/km	Net weight ≈ kg/km	Permitted pull N	Current max A (30 °C)	R20 max Ω/km
☐ TRA-RF 24 G 2.5	24	2.5	26.8	27.8	167	250	576	1,100	1,800	20	7.98
☐ TRA-RF 42 G 2.5	42	2.5	32.5	34.1	205	307	1,008	1,620	3,150	16	7.98

- Net cable weight is 1,100 kg/km (1.10 kg/m) for 24 G 2.5 and 1,620 kg/km (1.62 kg/m) for 42 G 2.5.
- Current carrying capacity (20 A for 24 G 2.5; 16 A for 42 G 2.5) applies to cable laid straight at +30 °C; apply drum-layer derating factors per DIN VDE 0298-4 Table 27 (0.80 for 1 layer, 0.61 for 2 layers, 0.49 for 3 layers).

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

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/tra-rf-lv-spreader-vertical-reeling-pur-cable



Typical values for this cable type, based on IEC 60502-1 / VDE 0295. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.