Vertical spreader reeling cable

(N)SHT11Y

Self-Supporting Crane Spreader PUR Reeling Cable

Self-supporting 0.6/1 kV ETFE/PUR mobile harbour crane spreader cable with CAN-BUS (90 m)



DIN VDE 0250-814 (ref.) | **U0/U 0.6/1 kV + CAN-BUS** | **90 m vertical · ≤ 160 m/min**

Application

Self-supporting 0.6/1 kV vertical spreader reeling cable for mobile harbour cranes: 37 × 2.5 mm² Class FS ETFE cores + screened CAN-BUS (2 × 0.24 mm²), 20 kN aramid bearer, 90 m suspension, 160 m/min, black dual-PUR jacket.

Typical uses: Mobile harbour cranes (MHC) vertical spreader reels (up to 90 m drop / 130 m total length), Twin-lift & telespreader power, PLC control and CAN-BUS telemetry in one cable, High-lift port, quayside and bulk-handling cranes with S-curve boom sheaves, Cold-climate and marine harbour terminals (−35 to +80 °C flexing, −50 °C fixed)

Construction





Cross-section, not to scale

1. Extra-fine Class FS power conductors
2. Thin-wall ETFE power-core insulation
3. Integrated EMC-screened CAN-BUS data pair
4. Central self-supporting aramid element
5. Main-core arrangement
6. Inner sheath
7. Polyester & synthetic anti-torsion braid
8. Outer sheath

Technical data

Typical values

Rated voltage U0/U	0.6 / 1 kV
AC test voltage	3.5 kV AC
Integrated CAN-BUS data element	1 × (2 × 0.24 mm²) Class 5 bare Cu pair, foam-skin PP insulation, Al/PET foil + tinned Cu braid screen, polyamide jacket
Ambient temperature, fixed	−50 to +80 °C
Vertical suspension & total length	Up to 90 m free vertical suspension height (with up to 130 m total cable length on the crane)
Max. operating speed & torsion	Up to 160 m/min vertical reeling speed · ±50 °/m permissible torsional stress
Weather, UV & ozone resistance	UV-, ozone- and water-resistant black PUR outer sheath for exposed marine harbour service
Halogen content	Contains halogens (ETFE fluoropolymer core insulation); not a halogen-free LSZH cable
Standard packing	Heat-treated seaworthy timber drums with waterproof end caps

Max. AC operating voltage	1.2 kV AC in three-phase systems
Power conductor resistance & ampacity	Max. R20 = 7.98 Ω/km (2.5 mm² Class FS) · 30 A in air at 30 °C (apply DIN VDE 0298-4 grouping & reel derating)
Ambient temperature, moving	−35 to +80 °C
Max. conductor temperature	+90 °C continuous · +250 °C short-circuit (ETFE power cores)
Tensile & breaking load	4,500 N (> 4.5 kN) dynamic working tensile load · > 20 kN (20,000 N) breaking load via central aramid core
Min. bending radius & S-guide	4 × D single bend (≈ 115–120 mm) · 5 × D moving reeling (≈ 144–150 mm) · 20 × D S-type directional change distance
Oil & abrasion resistance	Oil-resistant and highly abrasion/tear-resistant double polyurethane (11Y) sheath system
Standards	(N)SHT11Y with reference to DIN VDE 0250-814

Sizes

1 standard constructions

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

	Configuration	Power cores n × mm²	CAN-BUS pair screened	Outer Ø nom mm (±1.0)	Outer Ø max mm	Moving R mm (5×D)	R20 max Ω/km	Current A (30 °C)	Dynamic pull N	Breaking load kN	Copper wt kg/km	Net weight kg/km
☐	**(N)SHT11Y 37×2.5 + 1×CAN-BUS BK**	**37 × 2.5 (5×3 + 22)**	**1 × (2 × 0.24 mm²) C**	**28.7**	**30**	**150**	**7.98**	**30**	**4,500**	**20**	**1,045**	**1,575**

- Nominal outer diameter is 28.7 ± 1.0 mm (27.7–29.7 mm; rounded to 30 mm for gland and sheave clearance calculations).
- Inner core layer comprises 5 × 3 × 2.5 mm² (15 cores) plus 1 × (2 × 0.24 mm²) foil- and tinned-copper-braid-screened CAN-BUS pair; outer core layer comprises 22 × 2.5 mm² cores (total 37 × 2.5 mm²).

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/xtrm-n-sht11y-crane-spreader-pur-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.