



Port crane MV/LV & spreader reeling cable

STS-HV / STS-MT / STS-HT

Port Crane High-Speed Spreader & Drum

High-speed STS/RMG MV gantry reeling (3.6/6–12/20 kV) and LV spreader cables



DIN VDE 0250-813 / 814

0.6/1 kV & 3.6/6–12/20 kV

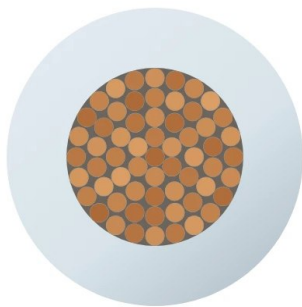
240–300 m/min · 30 N/mm²

Application

Matched port crane cable range based on DIN VDE 0250-813 and 0250-814: STS-HV (3.6/6–12/20 kV MV gantry drum reeling with FO), STS-MT (0.6/1 kV multi-core reeling), and STS-HT (central-polyaramid vertical spreader reeling up to 240–300).

Typical uses: Ship-to-shore (STS) container cranes, Automated RMG & ASC yard cranes, Electrified RTG (e-RTG) gantry reels, Grab ship unloaders & bulk cranes, Intermodal rail-mounted yard cranes

Construction



Cross-section, not to scale

- 1 Extra-flexible copper conductors & optical fibres
- 2 MV radial field control (STS-HV)
- 3 Core insulation
- 4 Central polyaramid strain core / split earths & FO tube
- 5 Pressure-extruded inner sheath
- 6 Anti-torsion synthetic / polyaramid braid
- 7 Outer sandwich sheath

Technical data

Typical values

Rated voltage U0/U	3.6/6–12/20 kV (STS-HV) · 0.6/1 kV (MT/HT)	Max. operating voltage AC	4.2/7.2 to 13.9/24 kV (HV) · 0.7/1.2 kV (LV)
AC test voltage (5 min)	11–29 kV (STS-HV) · 2.5–3.5 kV (STS-MT/HT)	Optical fibre options	6, 12 or 24 fibres (G.652.D 9/125 or OM2/OM3)
Current rating basis	DIN VDE 0298-4 (30 °C in air)	Temperature, flexing	–35 to +80 °C (–45 °C polar option)
Temperature, fixed	–50 to +80 °C	Max. conductor temperature	+90 °C
Short-circuit temperature (5 s)	+250 °C	Max. reeling speed	240 m/min (STS-HV/MT) · 300 m/min (STS-HT)
Max. tensile load	20 N/mm ² perm. · 30 N/mm ² dynamic (6 kN HT)	Min. bending radius	12 × OD (STS-HV) · 6 × OD (STS-MT / STS-HT)
Torsional stress	± 50 °/m (up to ± 100 °/m on MV drum)	S-bend pulley distance	≥ 20 × OD between sheave centres
Oil resistance	EN 60811-404 (hydraulic & gear oils)	Flame retardance	IEC 60332-1-2
Marine & weather resistance	UV, ozone, salt-mist & 50 m water immersion	Standards	DIN VDE 0250-813 (HV) & VDE 0250-814 (MT/HT)
Standard packing	ISPM-15 heat-treated lagged drums with sealed moisture-proof ends and FO test report		

Sizes

18 standard constructions

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

Order designation	U0/U kV	Construction mm ² / FO	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm	Max. pull N
STS-HV · MV Gantry Drum Reeling (3.6/6–12/20 kV) 8 sizes							
☐ STS-HV 3×35+3×25/3 6/10 kV	6/10	3 × 35 + 3 × 25/3	44.0	1,248	2,650	528	3,150
☐ STS-HV 3×50+3×25/3 6/10 kV	6/10	3 × 50 + 3 × 25/3	47.0	1,680	3,240	564	4,500
☐ STS-HV 3×70+3×35/3 6/10 kV	6/10	3 × 70 + 3 × 35/3	52.0	2,352	4,210	624	6,300
☐ STS-HV 3×95+3×50/3 6/10 kV	6/10	3 × 95 + 3 × 50/3	57.5	3,216	5,410	690	8,550
☐ STS-HV-FO 3×50+2×25/2+12FO 6/10 kV	6/10	3 × 50 + 2 × 25/2 + 12 FO	47.5	1,680	3,280	570	4,500
☐ STS-HV-FO 3×95+2×50/2+12FO 6/10 kV	6/10	3 × 95 + 2 × 50/2 + 12 FO	58.0	3,216	5,460	696	8,550
☐ STS-HV-FO 3×50+2×25/2+12FO 12/20 kV	12/20	3 × 50 + 2 × 25/2 + 12 FO	53.5	1,680	4,020	642	4,500
☐ STS-HV-FO 3×95+2×50/2+12FO 12/20 kV	12/20	3 × 95 + 2 × 50/2 + 12 FO	63.0	3,216	6,180	756	8,550
STS-MT · LV Power & Control Reeling (0.6/1 kV) 5 sizes							
☐ STS-MT 4G35 0.6/1 kV	0.6/1	4 × 35	37.8	1,344	2,540	227	3,150
☐ STS-MT 4G70 0.6/1 kV	0.6/1	4 × 70	48.2	2,688	4,520	289	6,300
☐ STS-MT 4G120 0.6/1 kV	0.6/1	4 × 120	60.5	4,608	7,050	363	10,800
☐ STS-MT 24G2.5 0.6/1 kV	0.6/1	24 × 2.5	29.8	576	1,390	179	1,800
☐ STS-MT 42G2.5 0.6/1 kV	0.6/1	42 × 2.5	38.6	1,008	2,380	232	3,150
STS-HT · Vertical Spreader Reeling (0.6/1 kV + Strain Core) 5 sizes							
☐ STS-HT 24G2.5 Spreader	0.6/1	24 × 2.5 + Strain Core	28.5	576	1,270	171	3,200
☐ STS-HT 30G2.5 Spreader	0.6/1	30 × 2.5 + Strain Core	31.0	720	1,520	186	3,900
☐ STS-HT 44G2.5 Spreader	0.6/1	44 × 2.5 + Strain Core	34.5	1,056	1,950	207	4,800
☐ STS-HT 56G2.5 Spreader	0.6/1	56 × 2.5 + Strain Core	39.5	1,344	2,580	237	6,000
☐ STS-HT-FO 36G2.5+24FO Spreader	0.6/1	36 × 2.5 + 24 FO + Strain Core	35.0	864	1,920	210	4,500

- STS-HV uses a 12 × OD minimum forced-reeling radius; STS-MT and STS-HT use a 6 × OD minimum reeling radius.
- STS-HT incorporates a central polyaramid load-bearing member supporting 3,200 to 6,000 N vertical spreader tension.

Electrical & current data by conductor size

6 sizes

Conductor CSA mm ²	Max. DC resistance 20 °C, Ω/km	0.6/1 kV Ampacity A (30 °C)	6/10–12/20 kV Ampacity A (30 °C)	1 s short-circuit kA
2.5 (Control / Spreader)	7.980	30	–	0.36
35	0.565	162	172	5.01
50	0.393	202	215	7.15
70	0.277	250	265	10.01
95	0.210	301	319	13.59
120	0.164	352	371	17.16

– Apply DIN VDE 0298-4 reduction factors for multi-core grouping (STS-MT / STS-HT) and drum layer winding.

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

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Web

tebaoflex.com/cables/sts-hv-sts-mt-sts-ht-port-crane-high-speed-spreader-drum-reeling-cable



Typical values for this cable type, based on DIN VDE 0250-813 / 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.