



Vertical spreader reeling cable

RXX / RXX-D

Vertical Spreader Reeling Cable

Extra-heavy-duty 0.6/1 kV PCP vertical reeling & 24-fiber data cable up to 240/300 m/min

Adapted to DIN VDE 0250

U0/U 0.6/1 kV · 24 FO data

Vertical reel · ≤ 240/300 m/min

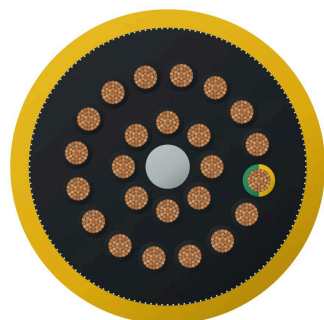


Application

Extra-heavy-duty (N)SHTOEU-J vertical spreader reeling cable with central strain relief, short-lay cores and bonded yellow dual-PCP sheath with anti-torsion braid for container cranes and grab dredgers.

Typical uses: Ship-to-shore (STS) & RMG/RTG container crane vertical spreader reels, Grab dredgers & floating dredger vertical motorized hoists (to 50 m water), High-speed vertical material-handling & port automation reels (RXX-D 24 FO), Heavy-duty outdoor port & marine reeling installations (-35 to +80 °C)

Construction



Cross-section, not to scale

- 1 Flexible copper conductor / optical fibres
- 2 Core insulation & coding
- 3 Central strain-relief support element
- 4 Inner sheath
- 5 Anti-torsion support braid
- 6 Outer sheath

Technical data

Typical values

Rated voltage U0/U (RXX)	600 / 1,000 V (0.6/1 kV); RXX-D is dielectric optical fibre
AC test voltage	2.5 kV AC (RXX control cable)
Ambient temperature, flexing	–35 to +80 °C (special compound down to –45 °C on request)
Max. conductor temperature	+90 °C continuous · +200 °C short-circuit (RXX copper cores)
Permitted tensile load	30 N/mm ² + central strain relief: 3,200–6,000 N (RXX) · 4,000 N (RXX-D)
Permissible torsional stress	±50 °/m continuous operational twist
Water submersion	Temporary submersion in water up to 50 m depth (consult engineering for permanent immersion)
Standards	(N)SHTOEU-J adapted to DIN VDE 0250-814

Max. operating voltage AC / DC	700 / 1,200 V AC · 900 / 1,800 V DC (RXX control cable)
Current-carrying capacity	Per DIN VDE 0298-4 with drum-layer (Table 27) and multicore grouping conversion factors
Ambient temperature, fixed	–50 to +80 °C
Max. vertical reeling speed	Up to 240 m/min (RXX control cable) · up to 300 m/min (RXX-D optical data cable)
Min. bending radius (moving)	6 × D on reel · 7.5 × D on diversion rollers · 20 × D S-type guide distance
Oil & flame behaviour	Oil-resistant (DIN VDE 0472-803) · flame-retardant per DIN VDE 0482-265-2-1 / IEC 60332-1
Chemical & environmental	Resistant to ozone, UV, humidity, sulfur and urea; LBS-free / silicone-free (contains halogens)
Standard packing	Heat-treated seaworthy timber drums with waterproof end caps

Sizes

7 standard constructions

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

Configuration	Cores / fibres	Cross-section / fibregrade	Outer Ø min mm	Outer Ø max mm	Reel R min mm (6×D)	Roller R min mm (7.5×D)	Copper wt ≈ kg/km	Net weight ≈ kg/km	Permitted pull N
RXX · 0.6/1 kV Control Cable 5 sizes									
☐ RXX 49 G 1	49 G 1	1.0 mm ²	26.6	29.6	178	222	580	1,260	3,200
☐ RXX 24 G 2.5	24 G 2.5	2.5 mm ²	26.2	29.2	175	219	672	1,340	3,600
☐ RXX 30 G 2.5	30 G 2.5	2.5 mm ²	29.4	32.4	194	243	848	1,680	4,100
☐ RXX 44 G 2.5	44 G 2.5	2.5 mm ²	34.1	37.1	223	278	1,243	2,280	5,100
☐ RXX 56 G 2.5	56 G 2.5	2.5 mm ²	40.1	43.1	259	323	1,567	3,030	6,000
RXX-D · 24-Fibre Optical Data Cable 2 sizes									
☐ RXX-D 24 G 50/125 SR	24 FO	G50/125 µm MM	17.0	19.0	114	143	–	350	4,000
☐ RXX-D 24 G 62.5/125 SR	24 FO	G62.5/125 µm MM	17.0	19.0	114	143	–	350	4,000

- Permitted tensile load (3,200–6,000 N on RXX; 4,000 N on RXX-D) combines the 30 N/mm² conductor rating with the embedded central strain-relief support core.
- Minimum bending radius is 6 × D on the reel, 7.5 × D over diversion rollers and 20 × D minimum distance between direction changes in S-type forced-guide pulleys.

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/rxx-rxx-d-lv-spreader-vertical-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.