



Low-voltage rubber reeling cables (DIN VDE 0250-814)

RG / RG-D (N)SHTOEU-J

RG / RG-D Rubber Reeling Cable (N)SHTOEU-J (0.6/1 kV)

Black PCP sandwich-sheathed 0.6/1 kV reeling cable with anti-torsion braid up to 120 m/min



0.6/1 kV

(N)SHTOEU-J

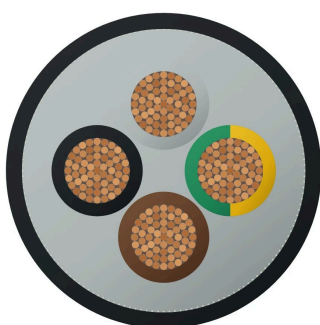
Reeling 120 m/min

Application

0.6/1 kV rubber reeling cable adapted to DIN VDE 0250-814 ((N)SHTOEU-J) with Class 5 tinned copper cores, EPR insulation, and black PCP sandwich double sheath with anti-torsion braid. 21 RG control/power sizes and 4 RG-D screened-data sizes.

Typical uses: Bulk Material Handling, Ports & Shiploaders, Surface Mining & Quarrying, Fertilizer & Sulfur Plants

Construction



Cross-section, not to scale

- 1 Flexible tinned copper conductor
- 2 Core insulation & coding
- 3 Individual data core screen (RG-D only)
- 4 Multi-layer core stranding
- 5 Inner sheath
- 6 Embedded anti-torsion braid
- 7 Outer sheath

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV	Max. operating voltage AC	0.7/1.2 kV
Max. operating voltage DC	0.9/1.8 kV	AC test voltage	2.5 kV AC (power cores) / 2.0 kV AC (control cores)
Current rating (DIN VDE 0298-4)	Per DIN VDE 0298-4 (30 °C ambient; reel layer factors 0.80 for 1 layer / spiral, 0.61 for 2 layers, 0.49 for 3 layers)	Temperature, flexing	-25 °C to +80 °C
Temperature, fixed installation	-40 °C to +80 °C	Max. conductor temperature	+90 °C
Short-circuit temperature	+200 °C	Max. travel speed	Up to 120 m/min (horizontal reeling)
Max. tensile load (dynamic)	15 N/mm ² (150–2,100 N per size table; catalog text notes 20 N/mm ²)	Min. bending radius, moving	6 × D (reeling) / 7.5 × D (diversion rollers)
S-bend distance	≥ 20 × D between two changes of bending direction	Oil resistance	Oil-resistant outer sheath per DIN VDE 0472-803 / EN 60811-404
Flame retardance	Flame-retardant per IEC 60332-1-2 / DIN VDE 0482-265-2-1	UV, ozone & chemical resistance	Resistant to ozone, UV, humidity, moisture, sulfur and urea; LBS-free / silicone-free; contains halogens (PCP)
Standards	(N)SHTOEU-J adapted to DIN VDE 0250-814; cores per DIN VDE 0293-308		

Sizes

25 standard constructions

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

Designation	Cores × mm ²	Outer Ø min	Outer Ø max	Cu number	Weight ≈	Permitted pull	Reel R min 6×D
RG Control Cable (1.5 – 2.5 mm ²) 12 sizes							
☐ RG 7 × 1.5	7 × 1.5	16.5	18.5	93	415	158	111
☐ RG 12 × 1.5	12 × 1.5	19.5	21.9	158	585	270	131
☐ RG 18 × 1.5	18 × 1.5	22	24.9	240	801	405	149
☐ RG 24 × 1.5	24 × 1.5	25.6	28.5	322	1,040	540	171
☐ RG 36 × 1.5	36 × 1.5	28.6	31.8	483	1,370	810	191
☐ RG 4 G 2.5	4 G 2.5	14.5	17.8	96	360	150	107
☐ RG 5 G 2.5	5 G 2.5	15	17.5	120	425	188	105
☐ RG 7 × 2.5	7 × 2.5	18.1	21.1	157	575	263	127
☐ RG 12 × 2.5	12 × 2.5	21.5	24.9	269	800	450	149
☐ RG 18 × 2.5	18 × 2.5	25.5	28.5	406	1,095	675	171
☐ RG 24 × 2.5	24 × 2.5	29	33	545	1,490	900	198
☐ RG 30 × 2.5	30 × 2.5	31	34.5	682	1,700	1,125	207
RG Power Cable (4 – 35 mm ²) 9 sizes							
☐ RG 4 G 4	4 G 4	16.5	19	143	460	240	114
☐ RG 4 G 6	4 G 6	18.4	20.5	211	615	360	123
☐ RG 4 G 10	4 G 10	22	25.5	367	920	600	153
☐ RG 4 G 16	4 G 16	25	27.6	588	1,310	960	166
☐ RG 4 G 25	4 G 25	29.6	34	886	1,890	1,500	204
☐ RG 4 G 35	4 G 35	33.5	36.4	1,323	2,490	2,100	218
☐ RG 5 G 6	5 G 6	20.4	23	264	725	450	138
☐ RG 5 G 10	5 G 10	24.5	26.7	460	1,140	750	160
☐ RG 5 G 16	5 G 16	27.6	29.7	736	1,480	1,200	178

Designation	Cores × mm ²	Outer Ø min	Outer Ø max	Cu number	Weight ≈	Permitted pull	Reel R min 6×D
RG-D Control & Screened Data Cable 4 sizes							
☐ RG-D 12 × 2.5 + 12 × 1.5 C	12 × 2.5 + 12 × 1.5 C	31	35	586	1,420	450	210
☐ RG-D 19 × 2.5 + 5 × 1.5 C	19 × 2.5 + 5 × 1.5 C	30	34	590	1,700	713	204
☐ RG-D 25 × 2.5 + 5 × 1.5 C	25 × 2.5 + 5 × 1.5 C	31	35	823	1,680	938	210
☐ RG-D 26 × 2.5 + 10 × 1 C	26 × 2.5 + 10 × 1 C	36.2	39.4	720	2,150	975	236

- All 25 configurations verified against the specialist reeling cable catalog.
- In RG-D configurations, the 'C' suffix denotes individually copper-screened 1.0 mm² or 1.5 mm² signal/data conductors.
- Permitted dynamic tensile loads [N] in the table correspond to 15 N/mm² of active copper cross-section (DIN VDE 0250-814).

Electrical reference data

25 sizes

Designation	Rated U0/U	Max. DC R 20 °C	Ref. Ampacity 30 °C	AC Test Voltage
RG Control Cable (1.5 – 2.5 mm ²) 12 sizes				
RG 7 × 1.5	0.6/1 kV	20.0	18	2.5 kV / 2.0 kV
RG 12 × 1.5	0.6/1 kV	20.0	18	2.5 kV / 2.0 kV
RG 18 × 1.5	0.6/1 kV	20.0	18	2.5 kV / 2.0 kV
RG 24 × 1.5	0.6/1 kV	20.0	18	2.5 kV / 2.0 kV
RG 36 × 1.5	0.6/1 kV	20.0	18	2.5 kV / 2.0 kV
RG 4 G 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG 5 G 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG 7 × 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG 12 × 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG 18 × 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG 24 × 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG 30 × 2.5	0.6/1 kV	8.21	26	2.5 kV / 2.0 kV
RG Power Cable (4 – 35 mm ²) 9 sizes				
RG 4 G 4	0.6/1 kV	5.09	34	2.5 kV
RG 4 G 6	0.6/1 kV	3.39	44	2.5 kV
RG 4 G 10	0.6/1 kV	1.95	61	2.5 kV
RG 4 G 16	0.6/1 kV	1.24	82	2.5 kV
RG 4 G 25	0.6/1 kV	0.795	108	2.5 kV
RG 4 G 35	0.6/1 kV	0.565	135	2.5 kV
RG 5 G 6	0.6/1 kV	3.39	44	2.5 kV
RG 5 G 10	0.6/1 kV	1.95	61	2.5 kV
RG 5 G 16	0.6/1 kV	1.24	82	2.5 kV
RG-D Control & Screened Data Cable 4 sizes				
RG-D 12 × 2.5 + 12 × 1.5 C	0.6/1 kV	8.21 / 13.7	26 / 18	2.5 kV / 2.0 kV
RG-D 19 × 2.5 + 5 × 1.5 C	0.6/1 kV	8.21 / 13.7	26 / 18	2.5 kV / 2.0 kV
RG-D 25 × 2.5 + 5 × 1.5 C	0.6/1 kV	8.21 / 13.7	26 / 18	2.5 kV / 2.0 kV
RG-D 26 × 2.5 + 10 × 1 C	0.6/1 kV	8.21 / 20.0	26 / 15	2.5 kV / 2.0 kV

- Maximum DC conductor resistance at 20 °C per IEC 60228 Table 3 for Class 5 tinned copper conductors.
- Free-air reference ampacity at 30 °C ambient per DIN VDE 0298-4; multiply by reel layer factor (0.80 for 1 layer, 0.61 for 2 layers, 0.49 for 3 layers) and multi-core grouping factor.

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/rg-rg-d-rubber-reeling-cable-nshtoeu-j



Typical values for this cable type. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.