



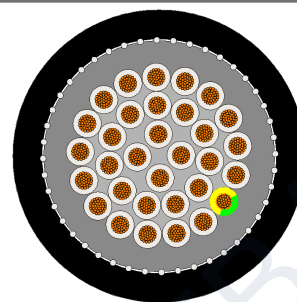
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

RG / RG-D NSHTOEU-J REELING CABLE

Heavy-duty rubber cable for random and monospiral reels



APPLICATION

Rubber round reeling cable for continuous standard-duty service on monospiral and level wind reels, horizontal machinery up to 120 m/min, stacker/reclaimers, shiploaders and bulk machinery.

CONSTRUCTION

Parameter	Value
Conductor	Flexible copper, Class 5 according to IEC 60228
Insulation	Special rubber compound
Stranding	Stranding in layers, maximum 3 layers
Inner sheath	Polychloroprene rubber compound
Outer sheath	Abrasion-resistant polychloroprene rubber compound
Design	Embedded anti-torsion braid for torsional flexibility
Jacket colour	Black
Core coding	According to DIN VDE 0293; green/yellow earth conductor

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U ₀ /U	0.6/1 kV
Maximum AC operating voltage	0.7/1.2 kV
Maximum DC operating voltage	0.9/1.8 kV
Travel speed	Up to 120 m/min horizontal
Ambient temperature, flexing	-25 °C to +90 °C
Ambient temperature, fixed	-40 °C to +90 °C
Maximum conductor temperature	+90 °C
Short-circuit conductor temperature	+200 °C
Minimum bending radius	6 x diameter for reeling; 7.5 x diameter for rollers
Guide pulley distance	20 x diameter between changes of direction
Tensile load capacity	20 N/mm ² ; refer to data tables

PERFORMANCE AND USE

Parameter	Value
Flame performance	Low flammability according to IEC 60332-1
Halogen-free	No
Ozone resistance	Yes
Humidity and moisture resistance	Yes
Oil resistance	Yes
UV resistance	Yes
Chemical resistance	Suitable for sulfur and urea environments
Silicone / LBS	Free
Applications	Motorized and spring reels, stacker/reclaimers, shiploaders and bulk machinery
Restrictions	Not suitable for water use

TECHNICAL DATA

Nominal dimensional data from the source technical sheet; source ordering codes and minimum order quantities omitted.

CONTROL AND POWER RG DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper kg/km	Weight kg/km	Tensile load N
Control RG	7 x 1.5	16.5 - 18.5	93	415	158
Control RG	12 x 1.5	19.5 - 21.9	158	585	270
Control RG	18 x 1.5	22.0 - 24.9	240	801	405
Control RG	24 x 1.5	25.6 - 28.5	322	1040	540
Control RG	36 x 1.5	28.6 - 31.8	483	1370	810
Control RG	4 G 2.5	14.5 - 17.8	96	360	150
Control RG	5 G 2.5	15.0 - 17.5	120	425	188
Control RG	7 x 2.5	18.1 - 21.1	157	575	263
Control RG	12 x 2.5	21.5 - 24.9	269	800	450
Control RG	18 x 2.5	25.5 - 28.5	406	1095	675
Control RG	24 x 2.5	29.0 - 33.0	545	1490	900
Control RG	30 x 2.5	31.0 - 34.5	682	1700	1125

TECHNICAL DATA

POWER RG DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper kg/km	Weight kg/km	Tensile load N
Power RG	4 G 4	16.5 - 19.0	143	460	240
Power RG	4 G 6	18.4 - 20.5	211	615	360
Power RG	4 G 10	22.0 - 25.5	367	920	600
Power RG	4 G 16	25.0 - 27.6	588	1310	960
Power RG	4 G 25	29.6 - 34.0	886	1890	1500
Power RG	4 G 35	33.5 - 36.4	1323	2490	2100
Power RG	5 G 6	20.4 - 23.0	264	725	450
Power RG	5 G 10	24.5 - 26.7	460	1140	750
Power RG	5 G 16	27.6 - 29.7	736	1480	1200

RG-D CONTROL AND DATA DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter min./max. mm	Copper kg/km	Weight kg/km	Tensile load N
Control & Data RG-D	12 x 2.5 + 12 x 1.5 C	31.0 - 35.0	586	1420	450
Control & Data RG-D	19 x 2.5 + 5 x 1.5 C	30.0 - 34.0	590	1700	713
Control & Data RG-D	25 x 2.5 + 5 x 1.5 C	31.0 - 35.0	823	1680	938
Control & Data RG-D	26 x 2.5 + 10 x 1 C	36.2 - 39.4	720	2150	975

TECHNICAL DATA

ELECTRICAL, THERMAL AND MECHANICAL DATA

Parameter	Value
Rated voltage	600/1000 V
Maximum AC operating voltage	700/1200 V
Maximum DC operating voltage	900/1800 V
Ampacity	According to table data; otherwise according to VDE 0298 Part 4
AC test voltage	Power 2.5 kV; control 2.0 kV
Flexing temperature	-25 °C to +80 °C
Fixed temperature	-40 °C to +80 °C
Maximum conductor temperature	+90 °C
Short-circuit temperature	+200 °C
Minimum radius	6 x diameter for reeling; 7.5 x diameter for diversion rollers
Direction-change distance	20 x diameter
Tensile load	According to data table
Design	Double rubber sheath with embedded anti-torsion braid
Materials	EPR insulation; abrasion-resistant PCP inner and outer sheath
Standards	NSHTOEU-J; DIN VDE 0250; IEC 60228; IEC 60332-1
Chemical resistance	Ozone, oil, UV, humidity, moisture, sulfur and urea resistant
Halogen-free	No
Colour	Black

CERTIFICATIONS



TEBAOFLEX CABLE