



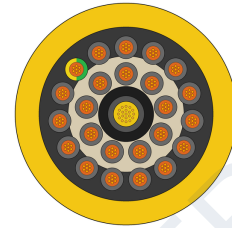
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

RXG / RXG-D Heavy-duty Reeling PCP Cable

0.6/1 kV | (N)SHTOEU-J



APPLICATION

Highly resilient round cable for motorized cable reels, vertical applications with high speed and acceleration, horizontal reeling above 120 m/min, continuous heavy-duty operation and temporary water exposure.

KEY FEATURES

Parameter	Value
Reeling use	High tensile strength and torsional rigidity for heavy-duty operation
Mechanical protection	Embedded braid and wear-resistant rubber sheath
Dynamic performance	Very small stranding lay and interlinked two-layer sheath
Cable versions	Power, control, data, control + data and power + data constructions

DESIGN

Parameter	Value
Conductor	Particularly flexible Class 5 or FS copper
Insulation	Special EPR-based rubber compound
Inner sheath	Polychloroprene (PCP)
Support	Central plastic reinforcement and protective torsion braid
Outer sheath	Wear-resistant PCP, yellow or black

TECHNICAL DATA

CONTROL CABLE DATA

Configuration	Outer diameter min./max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
5 x 1.5	13.0-14.6	75	280	225
7 x 1.5	15.2-17.2	106	385	315
12 x 1.5	21.4-23.4	182	710	540
18 x 1.5	21.3-23.3	272	760	810
24 x 1.5	23.8-26.8	363	990	1,080
30 x 1.5	26.6-29.6	454	1,220	1,350
36 x 1.5	26.5-29.5	543	1,260	1,620
44 x 1.5	29.5-32.5	664	1,530	1,980
56 x 1.5	34.9-37.9	845	2,050	2,520
4 x 2.5	13.2-14.8	101	305	300
5 x 2.5	14.2-15.8	126	355	375
7 x 2.5	16.6-18.6	176	510	525
12 x 2.5	23.4-25.4	302	920	900
18 x 2.5	23.3-25.3	454	1,005	1,350
24 x 2.5	26.2-29.2	605	1,320	1,800
30 x 2.5	29.4-32.4	756	1,660	2,250
36 x 2.5	30.3-33.3	907	1,720	2,700
44 x 2.5	34.1-37.1	1,109	2,230	3,300
56 x 2.5	40.1-43.1	1,408	2,940	4,200

POWER CABLE DATA

Configuration	Outer diameter min./max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
4 x 4.0	16.0-18.0	161	455	480
4 x 6.0	17.4-19.4	242	575	720
4 x 10.0	21.6-23.6	424	905	1,200
4 x 16.0	23.7-26.7	645	1,240	1,920
4 x 25.0	28.5-31.5	1,020	1,850	3,000
5 x 4	17.4-19.4	201	430	600
5 x 6	19.0-21.0	302	690	900
5 x 10	23.4-25.4	503	1,080	1,500
5 x 16	26.1-29.1	805	1,500	2,400
3 x 35 + 3 x 16/3	28.5-31.5	1,220	2,160	3,150
3 x 50 + 3 x 25/3	34.4-37.4	1,764	2,850	4,500
3 x 70 + 3 x 35/3	39.7-42.7	2,470	3,920	6,300
3 x 95 + 3 x 50/3	44.3-47.3	3,377	5,020	8,550
3 x 120 + 3 x 70/3	51.0-55.0	4,334	6,630	10,800
3 x 150 + 3 x 70/3	53.9-57.9	5,242	7,690	13,500
3 x 185 + 3 x 95/3	58.9-62.9	6,552	9,310	16,650
3 x 240 + 3 x 120/3	67.4-71.4	8,870	12,200	21,600

TECHNICAL DATA

POWER CABLE DATA - LOW TEMPERATURE

Configuration	Outer diameter min./max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3 x 50 + 3 x 25/3	32.9-36.0	1,680	2,520	3,000
3 x 70 + 3 x 35/3	38.9-42.0	2,352	3,490	4,200
3 x 95 + 3 x 50/3	42.4-46.5	3,216	4,460	5,700
3 x 120 + 3 x 70/3	47.9-52.0	4,128	5,640	7,200
3 x 150 + 3 x 70/3	51.7-55.8	4,992	6,710	9,000
3 x 185 + 3 x 95/3	56.2-60.3	6,240	7,860	11,100
3 x 240 + 3 x 120/3	64.2-68.3	8,064	10,800	14,400

DATA CABLE DATA

Configuration	Outer diameter min./max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
6 x (2 x 1) C	28.9-31.9	460	1,330	360
9 x (2 x 1) C	31.0-33.0	350	1,200	450
12 G 62.5-125	14.0-16.0	-	240	2,000
24 G 62.5-125	14.0-16.0	-	240	2,000
12 G 50-125	14.0-16.0	-	240	2,000
24 G 50-125	14.0-16.0	-	240	2,000
12 E 9-125	14.0-16.0	-	240	2,000

CONTROL + DATA CABLE DATA

Configuration	Outer diameter min./max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
12 x 2.5 + 12 x 1 CE	26.2-29.2	545	1,230	900
19 x 2.5 + 5 x 1 CE	26.2-29.2	585	1,290	1,575
25 x 2.5 + 5 x 1 CE	29.4-32.4	736	1,620	975
24 x 2.5 + 6 x (2 x 1) C	37.0-40.0	825	2,000	1,800
30 x 1.5 + 7 x (2 x 1) C	42.5-45.5	612	2,800	1,350
4 x 2.5 + 12 FO	21.0-24.0	96	620	300
12 x 2.5 + 12 FO	23.0-25.0	288	830	900
22 x 2.5 + 18 FO	27.0-29.0	528	1,120	16,050
34 x 2.5 + 12 FO + 12 FO	34.0-37.0	816	1,900	2,550
45 x 2.5 + 12 FO + 12 FO	36.0-39.0	1,080	2,100	3,375

TECHNICAL DATA

POWER + DATA CABLE DATA

Configuration	Outer diameter min./max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
3 x 25 + 2 x 16/2 + 12 FO	31.5-34.5	894	1,340	1,500
3 x 35 + 2 x 16/2 + 12 FO	31.5-34.5	1,181	1,794	2,100
3 x 50 + 2 x 25/2 + 12 FO	37.5-40.5	1,680	2,516	3,000
3 x 70 + 2 x 35/2 + 12 FO	39.0-42.0	2,352	3,494	4,200
3 x 95 + 2 x 50/2 + 12 FO	43.0-46.0	3,216	4,466	5,700
3 x 120 + 2 x 70/2 + 12 FO	48.0-52.0	4,128	5,640	7,200
3 x 150 + 2 x 70/2 + 12 FO	52.0-56.0	4,992	6,713	9,000
3 x 185 + 2 x 95/2 + 12 FO	56.0-61.0	6,240	7,865	11,100
3 x 240 + 2 x 120/2 + 12 FO	64.0-70.0	8,064	10,800	14,400

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage	0.6/1 kV
Maximum permitted AC voltage	0.7/1.2 kV
Maximum permitted DC voltage	0.9/1.8 kV
Ampacity	According to table data; otherwise VDE 0298 Part 4
AC test voltage	2.5 kV
Ambient temperature, flexing	-35 deg C to +80 deg C
Ambient temperature, fixed	-50 deg C to +80 deg C
Maximum conductor temperature	90 deg C
Short-circuit conductor temperature	250 deg C
Minimum bending radius	6 x D for reeling; 7.5 x D diversion rollers; 20 x D S-curves
S-type guide pulley distance	20 x D
Tensile load capacity	30 N/mm ²
Water suitability	Temporary use up to 50 m depth
Chemical resistance	Ozone, humidity, UV and oil resistant; LBS-free / silicone-free
Flammability	Low flammability according to IEC 60332-1
Construction	EPR insulation; PCP inner and outer sheath; central plastic reinforcement
Conductor	Bare electrolytic copper, Category 5 according to DIN VDE 0295
Core coding	DIN VDE 0293 Part 308; black with white numbers and green/yellow
Design code	(N)SHTOEU-J
Standard basis	DIN VDE 0250

CERTIFICATIONS



TEBAOFLEX CABLE