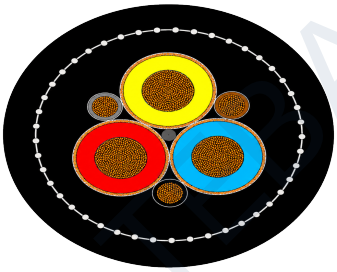
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

SANS TYPE 61B 0.64/1.1 KV CABLE

Flexible copper screened mining cable



APPLICATION

Designed for electrically driven machines and movable electric apparatus in hazardous areas. Suitable for non-reeling mining and industrial applications.

CONSTRUCTION

Parameter	Value
Conductor	Class 5 flexible stranded tinned annealed copper with semi-conducting rubber screen
Insulation	EPR thermosetting compound type RD 3 with strippable semi-conducting core screen, triple extruded
Cable core	Three tinned copper braided screened power cores and three unscreened pilot cores, one in each interstice
Lay	Cores laid up in right-hand lay around a semi-conductive rubber filler
Inner sheath	Polychloroprene thermosetting compound type RS 6
Reinforcement	Open nylon braid, minimum 16 nylon strings
Outer sheath	Polychloroprene thermosetting compound type RS 6, black

CABLE CHARACTERISTICS

Parameter	Value
Standard	SANS 1520-1; SANS 1411-1; SANS 1411-3
Rated voltage	0.64/1.1 kV
Temperature rating	-25 deg C to +90 deg C
Performance	Excellent flexibility; water resistant; flame retardant; UV, sunlight, ozone and oil resistant
Sheath colour	Black

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

TYPE 61B PHYSICAL PROPERTIES													
Power size mm2	Power wire dia. mm	Power cond. dia. mm	Screen wire dia. mm	Screen fill %	Screen cross-sec. mm2	Pilot size mm2	Pilot wire dia. mm	Pilot cond. dia. mm	Lay ratio xPCD	Cable dia. mm	Mass kg/m	Bend radius mm	Tension kN
35	0.41	8.5	0.31	80	27	6	0.31	3.2	12	41	3.1	300	1.6
50	0.41	10.3	0.31	80	32	6	0.31	3.2	12	42.5	3.6	340	2.3
70	0.51	11.9	0.31	80	37	16	0.41	5.2	12	48	4.8	390	3.2
95	0.51	13.5	0.31	80	43	16	0.41	5.2	12	52.3	5.7	430	4.3
120	0.51	15.5	0.31	80	47	16	0.41	5.2	12	58	7.1	460	5.4
150	0.51	17.3	0.31	80	52	16	0.41	5.2	12	63.5	8.5	500	6.8

NOTES

Nominal dimensions and weights are provided for cable selection. Actual cable dimensions may vary due to manufacturing tolerances.

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TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

ELECTRICAL CHARACTERISTICS							
Power size mm2	DC res. 20 deg C oh/km	DC res. 90 deg C oh/km	React. oh/km	Imped. 90 deg C	Laid out straight A	Sym. S/C kA 1s	Earth fault kA 1s
35	0.576	0.734	0.090	0.740	160	4.3	2.1
50	0.401	0.511	0.090	0.519	200	6.1	3.1
70	0.283	0.360	0.088	0.371	245	8.5	3.5
95	0.214	0.273	0.086	0.287	295	11.6	4.1
120	0.167	0.213	0.086	0.230	345	14.6	4.1
150	0.135	0.171	0.085	0.191	390	18.3	4.1

SERVICE CONDITIONS

Parameter	Value
Voltage rating	0.64/1.1 kV
Ambient rating basis	Current rating at 30 deg C ambient
Short circuit rating	Values shown are kA for 1 second
Installation use	Non-reeling operation for movable electrical apparatus

CERTIFICATIONS