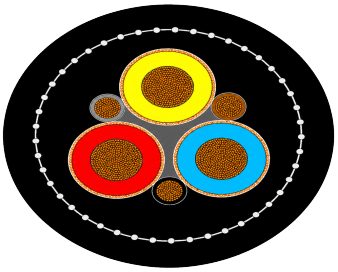
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

SANS TYPE 63 1.9/3.3 KV CABLE

Medium voltage flexible trailing cable



APPLICATION

Connection cable for portable electrical equipment and machinery, including equipment used in hazardous areas. Suitable for reeling and non-reeling applications in mining and industrial service.

CONSTRUCTION

Parameter	Value
Conductor	Class 5 flexible stranded tinned annealed copper
Insulation	EPR ethylene propylene rubber thermosetting compound
Braid	Nylon / tinned copper wires
Pilot core	Insulated pilot core incorporated in the cable lay-up
Lay	Three tinned copper / nylon braid screened power cores and one unscreened pilot core laid up around a rubber filler centre
Inner sheath	CR polychloroprene rubber
Reinforcement braid	Open nylon braid, minimum 16 strings
Outer sheath	CR polychloroprene rubber, black

CABLE CHARACTERISTICS

Parameter	Value
Standard	SANS 1520-2; SANS 1411-1; SANS 1411-3
Rated voltage	1.9/3.3 kV
Temperature rating	-25 deg C to +90 deg C
Minimum bending radius	6 x overall diameter
Sheath colour	Black

TECHNICAL DATA

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

TYPE 63 DIMENSIONS										
Power size mm2	Power wire dia. mm	Power cond. dia. mm	Screen wire dia. mm	Screen cross-sec. mm2	Pilot size mm2	Pilot wire dia. mm	Pilot cond. dia. mm	Max tension kN	Overall dia. mm	Weight kg/km
25	0.41	6.8	0.31	31	10	0.41	4.2	1.1	44	360
35	0.41	8.5	0.31	33	10	0.41	4.2	1.6	48	420
50	0.41	10.3	0.31	38	10	0.41	5.3	2.3	50.5	420
70	0.51	11.9	0.31	42	16	0.41	5.3	3.2	56	640
95	0.51	13.5	0.31	47	16	0.41	5.3	4.3	61	770
120	0.51	15.5	0.31	50	16	0.41	5.3	5.4	63	850
150	0.51	17.3	0.31	55	25	0.41	6.8	6.8	66	1050
185	0.51	20.2	0.31	60	25	0.41	6.8	8.3	72	1140
240	0.51	22.9	0.31	64	25	0.41	6.8	10.8	78	1400

NOTES

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

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
25	0.859	1.10	0.122	1.11	130	3.1	1.6
35	0.610	0.778	0.113	0.786	160	4.3	2.1
50	0.424	0.542	0.107	0.552	200	6.1	3.1
70	0.299	0.382	0.103	0.396	245	8.5	3.5
95	0.227	0.290	0.090	0.304	295	11.6	4.1
120	0.177	0.227	0.088	0.243	345	14.6	4.1
150	0.143	0.183	0.085	0.202	390	18.3	4.1
185	0.117	0.150	0.084	0.172	440	23	4.1
240	0.0882	0.115	0.083	0.142	520	29	4.1

SERVICE CONDITIONS

Parameter	Value
Voltage rating	1.9/3.3 kV
Ambient rating basis	Current rating at 30 deg C ambient
Short circuit rating	Values shown are kA for 1 second
Installation use	Reeling and non-reeling operation for portable electrical equipment

CERTIFICATIONS