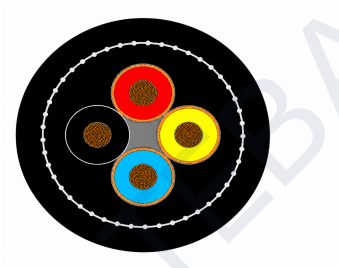
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

SANS TYPE 41 TRAILING CABLE

640/1100 V flexible trailing cable for portable equipment



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 1520-1; SANS 1411-1; SANS 1411-3
Rated voltage	640/1100 V
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 41 DIMENSIONS										
Power size mm2	Power wire dia. mm	Power cond. dia. mm	Screen wire dia. mm	Screen fill mm2	Pilot size mm2	Pilot wire dia. mm	Pilot cond. dia. mm	Max tension kN	Overall dia. mm	Weight kg/km
2.5	0.26	2.1	0.21	8	2.5	0.26	2.1	0.15	20	712
4	0.31	2.7	0.21	9.5	4	0.31	2.7	0.24	25	902
6	0.31	3.3	0.21	10.4	6	0.31	3.3	0.36	26	1103
10	0.41	4.2	0.31	19	10	0.41	4.2	0.60	29	1563
16	0.41	5.3	0.31	22	16	0.41	5.3	0.95	33	2105
25	0.41	6.8	0.31	25	16	0.41	5.3	1.1	39	2705

ELECTRICAL CHARACTERISTICS										
Power size mm2	DC res. 20 deg C oh/km	DC res. 90 deg C oh/km	React. oh/km	Imped. 30 deg C	Laid out straight A	1 layer on drum A	2 layers on drum A	3 layers on drum A	Sym. S/C kA 1s	Earth fault kA 1s
2.5	5.50	7.01	0.123	7.01	45	38	29	20	0.49	0.5
4	3.66	4.67	0.115	4.67	57	48	37	25	0.73	0.7
6	2.11	2.69	0.108	2.69	77	65	50	34	1.2	0.6
10	1.34	1.71	0.103	1.71	100	85	65	45	2.0	1.0
16	0.859	1.10	0.100	1.10	130	110	84	58	3.1	1.6

NOTES

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

TEBAOFLEX

TECHNICAL DATA

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

SERVICE CONDITIONS

Parameter	Value
Voltage rating	640/1100 V
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