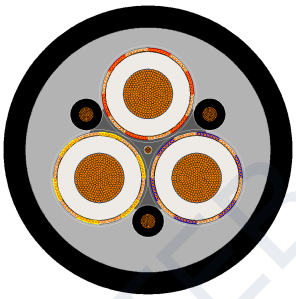
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 240 COMPOSITE SCREENED CABLE

1.1/1.1 kV to 11/11 kV general-use cable to AS/NZS 1802



APPLICATION

Composite screened power cores and three separate pilot conductors. Used for feeder connection between transformer and gate-end box, continuous miner cable or feeder cables to pumps. Three pilot conductors allow long runs without compromising pilot control protection system resistance limitations.

CONSTRUCTION

Parameter	Value
Core	Tinned copper, three phase cores plus three pilot conductors
Conductor separator	Polyester tape for 1.1/1.1 kV; semi-conductive screen for 3.3 kV and above
Insulation	EPR compound, R-EP-90
Insulation tape	Proofed textile for 1.1/1.1 kV; semi-conductive screen for 3.3 kV and above
Screen	Composite earth screen of tinned annealed copper wire and polyester yarn
Core colours	Red, white and blue braid tracers
Pilot cores	Three pilot conductors in the interstitial cavities, elastomer covered and proofed taped
Sheath	Heavy duty HD-85-PCP elastomer sheath; reinforced sheath available on request

CABLE CHARACTERISTICS

Parameter	Value
Standard	AS/NZS 1802
Voltage range	1.1/1.1 kV to 11/11 kV
Maximum continuous operating temperature	+90 deg C
Minimum installation temperature	-25 deg C
Installation conditions	In free air, in duct and for mobile equipment machines
Oil / water performance	Excellent immersion performance and very good flexibility
Flame performance	C1

TECHNICAL DATA

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

TYPE 240.1 - 1.1/1.1 kV												
Part	Area mm2	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Screen mm2	Pilot mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
6	6	3.5	1.5	4.32	0.141	7.49	0.259	8.2	1	3.8	31.0	150
10	10	4.6	1.5	2.58	0.130	4.47	0.314	8.2	1.5	3.8	33.3	175
16	16	6.2	1.6	1.58	0.118	2.74	0.379	10	3	4.0	37.3	230
25	25	7.2	1.6	0.951	0.112	1.66	0.432	12	4.5	4.3	40.3	295
35	35	8.4	1.6	0.698	0.107	1.22	0.493	14	6	4.6	43.6	350
50	50	9.7	1.7	0.523	0.104	0.924	0.526	14	8	5.0	47.7	425
70	70	12.0	1.8	0.346	0.0981	0.623	0.599	16	12.5	5.4	54.0	565
95	95	13.3	2.0	0.271	0.0955	0.498	0.591	18	12.5	6.0	58.9	670
120	120	15.3	2.1	0.210	0.0925	0.397	0.640	21	13.75	6.4	64.6	815
150	150	17.2	2.3	0.166	0.0907	0.328	0.652	23	17	6.9	70.4	990
185	185	18.8	2.5	0.137	0.0902	0.284	0.657	30	22	7.4	76.5	1195
240	240	21.7	2.8	0.107	0.0883	0.240	0.672	34	27	8.2	85.5	1505
300	300	24.3	3.0	0.0850	0.0873	0.211	0.719	49	35.7	8.8	94.3	1870

TYPE 240.3 - 3.3/3.3 kV												
Part	Area mm2	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Screen mm2	Pilot mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
16	16	6.2	3.0	1.58	0.131	2.75	0.255	14	3	5.3	47.3	340
25	25	7.2	3.0	0.951	0.125	1.66	0.280	15	4.5	5.6	50.4	410
35	35	8.4	3.0	0.698	0.119	1.23	0.311	16	6	5.9	53.5	475
50	50	9.7	3.0	0.523	0.114	0.927	0.347	17	8	6.3	57.2	555
70	70	12.0	3.0	0.346	0.106	0.627	0.408	19	12.5	6.6	62.6	690
95	95	13.3	3.0	0.271	0.102	0.502	0.439	21	12.5	7.1	66.4	785
120	120	15.3	3.0	0.210	0.0985	0.402	0.492	27	13.75	7.4	72.0	955
150	150	17.2	3.0	0.166	0.0954	0.332	0.541	32	17	7.8	76.7	1130
185	185	18.8	3.0	0.137	0.0942	0.288	0.584	42	22	8.2	82.3	1330
240	240	21.7	3.0	0.106	0.0906	0.242	0.659	48	27	8.8	89.6	1615
300	300	24.3	3.0	0.0849	0.0890	0.213	0.727	63	35.7	9.4	97.7	1980

TECHNICAL DATA

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

TYPE 240.6 - 6.6/6.6 kV												
Part	Area mm2	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Screen mm2	Pilot mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
16	16	6.2	5.0	1.58	0.143	2.75	0.181	17	3	6.4	58.2	480
25	25	7.2	5.0	0.951	0.137	1.66	0.193	19	4.5	6.7	61.7	570
35	35	8.4	5.0	0.698	0.130	1.23	0.212	21	6	7.0	64.8	645
50	50	9.7	5.0	0.523	0.124	0.931	0.234	22	8	7.3	68.2	730
70	70	12.0	5.0	0.346	0.116	0.632	0.271	23	12.5	7.7	73.8	880
95	95	13.3	5.0	0.271	0.113	0.509	0.292	30	12.5	8.1	78.0	1020
120	120	15.3	5.0	0.210	0.108	0.409	0.325	32	13.75	8.5	83.2	1180
150	150	17.2	5.0	0.166	0.105	0.340	0.354	46	17	8.9	89.2	1410
185	185	18.8	5.0	0.136	0.102	0.294	0.381	48	22	9.3	93.6	1585
240	240	21.7	5.0	0.106	0.0981	0.250	0.426	53	27	9.9	101	1885
300	300	24.3	5.0	0.0845	0.0959	0.221	0.467	71	35.7	10.4	109	2275

TYPE 240.11 - 11/11 kV												
Part	Area mm2	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Screen mm2	Pilot mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
25	25	7.2	7.6	0.951	0.150	1.67	0.150	24	4.5	8.1	75.9	815
35	35	8.4	7.6	0.698	0.143	1.23	0.163	30	6	8.4	79.6	930
50	50	9.7	7.6	0.523	0.136	0.936	0.178	32	8	8.7	83.0	1025
70	70	12.0	7.6	0.346	0.127	0.638	0.204	35	12.5	9.1	88.7	1210
95	95	13.3	7.6	0.271	0.124	0.516	0.219	48	12.5	9.6	93.8	1385
120	120	15.3	7.6	0.210	0.119	0.418	0.241	53	13.75	9.9	98.7	1565
150	150	17.2	7.6	0.165	0.114	0.347	0.261	56	17	10.3	103	1765
185	185	18.8	7.6	0.136	0.111	0.304	0.279	56	22	10.7	108	1945
240	240	21.7	7.6	0.106	0.107	0.261	0.309	77	27	11.3	116	2340

CERTIFICATIONS