



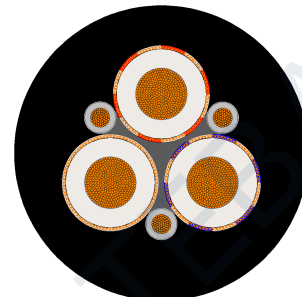
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 440 COMPOSITE SCREENED CABLE

1.1 kV to 22 kV class 2 cable to AS/NZS 2802



APPLICATION

Class 2 composite screened power cores with three pilot cores. Flexible trailing cable with high resistance to abrasion and weathering, suitable for long cable runs, trailing service and most reeling applications.

CONSTRUCTION

Parameter	Value
Core	Tinned copper, three power cores plus three pilot cores
Conductor tape	Polyester for 1.1/1.1 kV; semiconductive screen for 3.3 kV and above
Insulation	EPR compound, R-EP-90, white
Screen	Composite earth screen of tinned annealed copper wire and polyester yarn
Core colours	Red, white and blue with braid tracers
Pilot	Three elastomer covered and proofed tape pilots disposed in the cable interstices
Sheath	Heavy duty HD-85-PCP sheath incorporating polyaramid braid reinforcement

CABLE CHARACTERISTICS

Parameter	Value
Standard	AS/NZS 2802
Voltage range	1.1 kV to 22 kV
Maximum continuous operating temperature	+90 deg C
Minimum installation temperature	-25 deg C
Installation conditions	In free air for mobile equipment
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 440.1 - 1.1 kV - ELECTRICAL DATA							
Part	Area mm2	Nom. dia. mm	Insul. thick. mm	AC res. oh/km	React. oh/km	Volt drop mV/A.m	Cap. uF/km
6-440-1	6	3.5	1.5	4.32	0.141	7.49	0.259
10-440-1	10	4.6	1.5	2.58	0.130	4.47	0.314
16-440-1	16	6.2	1.6	1.58	0.118	2.74	0.379
25-440-1	25	7.2	1.6	0.951	0.112	1.66	0.432
35-440-1	35	8.4	1.6	0.698	0.107	1.22	0.493
50-440-1	50	9.7	1.7	0.523	0.104	0.924	0.526
70-440-1	70	12.0	1.8	0.346	0.0981	0.623	0.599
95-440-1	95	13.3	2.0	0.271	0.0964	0.498	0.591
120-440-1	120	15.3	2.1	0.210	0.0932	0.398	0.640
150-440-1	150	17.2	2.3	0.166	0.0928	0.329	0.652
185-440-1	185	18.8	2.5	0.137	0.0915	0.285	0.657
240-440-1	240	21.7	2.8	0.106	0.0905	0.241	0.672
300-440-1	300	24.3	3.0	0.0849	0.0883	0.212	0.719

TYPE 440.1 - SCREEN, PILOT AND CABLE DATA						
Part	Screen area mm2/phase	Pilot area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m	
6-440-1	8.2	1	3.8	31.0	150	
10-440-1	8.2	1.5	3.8	33.3	175	
16-440-1	10	3	4.0	37.3	230	
25-440-1	12	4.5	4.3	40.3	295	
35-440-1	14	6	4.6	43.6	350	
50-440-1	14	8	5.0	47.7	425	
70-440-1	16	12.5	5.4	54.0	565	
95-440-1	22	12.5	6.0	59.5	695	
120-440-1	25	13.75	6.4	65.2	845	
150-440-1	37	17	6.9	72.3	1065	
185-440-1	40	22	7.4	77.8	1245	
240-440-1	58	27	8.2	88.1	1610	
300-440-1	63	35.7	8.8	95.5	1930	

TECHNICAL DATA

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

TYPE 440.3 - 3.3 kV - ELECTRICAL DATA

Part	Area mm ²	Nom. dia. mm	Insul. thick. mm	AC res. oh/km	React. oh/km	Volt drop mV/A.m	Cap. uF/km
16-440-3	16	6.2	3.0	1.58	0.131	2.75	0.255
25-440-3	25	7.2	3.0	0.951	0.125	1.66	0.280
35-440-3	35	8.4	3.0	0.698	0.119	1.23	0.311
50-440-3	50	9.7	3.0	0.523	0.114	0.927	0.347
70-440-3	70	12.0	3.0	0.346	0.106	0.627	0.408
95-440-3	95	13.3	3.0	0.271	0.102	0.502	0.439
120-440-3	120	15.3	3.0	0.210	0.0985	0.402	0.492
150-440-3	150	17.2	3.0	0.166	0.0954	0.332	0.541
185-440-3	185	18.8	3.0	0.137	0.0942	0.288	0.584
240-440-3	240	21.7	3.0	0.106	0.0906	0.242	0.659
300-440-3	300	24.3	3.0	0.0849	0.0890	0.213	0.727

TYPE 440.3 - SCREEN, PILOT AND CABLE DATA

Part	Screen area mm ² /phase	Pilot area each mm ²	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
16-440-3	14	3	5.3	47.3	340
25-440-3	15	4.5	5.6	50.4	410
35-440-3	16	6	5.9	53.5	475
50-440-3	17	8	6.3	57.2	555
70-440-3	19	12.5	6.6	62.6	690
95-440-3	21	12.5	7.1	66.4	785
120-440-3	28	13.75	7.4	72.0	960
150-440-3	32	17	7.8	76.7	1130
185-440-3	42	22	8.2	82.3	1330
240-440-3	48	27	8.8	89.6	1615
300-440-3	63	35.7	9.4	97.7	1980

TECHNICAL DATA

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

TYPE 440.6 - 6.6 kV - ELECTRICAL DATA							
Part	Area mm2	Nom. dia. mm	Insul. thick. mm	AC res. oh/km	React. oh/km	Volt drop mV/A.m	Cap. uF/km
16-440-6	16	6.2	5.0	1.58	0.143	2.75	0.181
25-440-6	25	7.2	5.0	0.951	0.137	1.66	0.193
35-440-6	35	8.4	5.0	0.698	0.130	1.23	0.212
50-440-6	50	9.7	5.0	0.523	0.124	0.931	0.234
70-440-6	70	12.0	5.0	0.346	0.116	0.632	0.271
95-440-6	95	13.3	5.0	0.271	0.113	0.509	0.292
120-440-6	120	15.3	5.0	0.210	0.108	0.409	0.325
150-440-6	150	17.2	5.0	0.166	0.105	0.340	0.354
185-440-6	185	18.8	5.0	0.136	0.102	0.294	0.381
240-440-6	240	21.7	5.0	0.106	0.0981	0.250	0.426
300-440-6	300	24.3	5.0	0.0845	0.0959	0.221	0.467

TYPE 440.6 - SCREEN, PILOT AND CABLE DATA					
Part	Screen area mm2/phase	Pilot area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
16-440-6	17	3	6.4	58.2	480
25-440-6	19	4.5	6.7	61.7	570
35-440-6	21	6	7.0	64.8	645
50-440-6	22	8	7.3	68.2	730
70-440-6	23	12.5	7.7	73.8	880
95-440-6	30	12.5	8.1	78.0	1020
120-440-6	32	13.75	8.5	83.2	1180
150-440-6	46	17	8.9	89.2	1410
185-440-6	49	22	9.3	93.6	1590
240-440-6	53	27	9.9	101	1885
300-440-6	71	35.7	10.4	109	2275

TECHNICAL DATA

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

TYPE 440.11 - 11 kV - ELECTRICAL DATA							
Part	Area mm2	Nom. dia. mm	Insul. thick. mm	AC res. oh/km	React. oh/km	Volt drop mV/A.m	Cap. uF/km
25-440-11	25	7.2	7.6	0.951	0.150	1.67	0.150
35-440-11	35	8.4	7.6	0.698	0.143	1.23	0.163
50-440-11	50	9.7	7.6	0.523	0.136	0.936	0.178
70-440-11	70	12.0	7.6	0.346	0.127	0.638	0.204
95-440-11	95	13.3	7.6	0.271	0.124	0.516	0.219
120-440-11	120	15.3	7.6	0.210	0.119	0.418	0.241
150-440-11	150	17.2	7.6	0.165	0.114	0.347	0.261
185-440-11	185	18.8	7.6	0.136	0.111	0.304	0.279

TYPE 440.11 - SCREEN, PILOT AND CABLE DATA						
Part	Screen area mm2/phase	Pilot area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m	
25-440-11	24	4.5	8.1	75.9	815	
35-440-11	30	6	8.4	79.6	930	
50-440-11	32	8	8.7	83.0	1025	
70-440-11	35	12.5	9.1	88.7	1210	
95-440-11	48	12.5	9.6	93.8	1385	
120-440-11	53	13.75	9.9	98.7	1565	
150-440-11	56	17	10.3	103	1765	
185-440-11	56	22	10.7	108	1945	

TECHNICAL DATA

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

TYPE 440.22 - 22 kV - ELECTRICAL DATA							
Part	Area mm2	Nom. dia. mm	Insul. thick. mm	AC res. oh/km	React. oh/km	Volt drop mV/A.m	Cap. uF/km
35-440-22	35	8.4	10.5	0.698	0.160	1.24	0.147
50-440-22	50	9.7	10.5	0.523	0.153	0.944	0.159
70-440-22	70	12.0	10.5	0.346	0.143	0.648	0.178
95-440-22	95	13.3	10.5	0.271	0.138	0.527	0.189

TYPE 440.22 - SCREEN, PILOT AND CABLE DATA						
Part	Screen area mm2/phase	Pilot area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m	
35-440-22	53	6	10.0	102	1430	
50-440-22	56	8	10.3	106	1550	
70-440-22	60	12.5	10.7	111	1755	
95-440-22	62	12.5	11.1	115	1890	

CERTIFICATIONS



TEBAOFLEX CABLE