



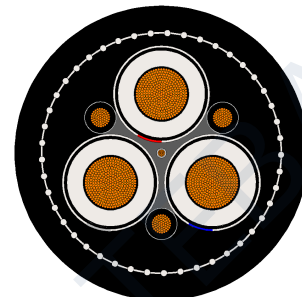
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 441 CLASS 1 SCREENED MINING CABLE

3.3 kV to 22 kV semiconductive screened cable to AS/NZS 2802



APPLICATION

Class 1 semiconductive elastomer screened power cores with three earth cores and one central pilot core. General purpose flexible cable with lower insulation and sheath radials than Class 2, for materials handling equipment, slow reeling and trailing applications requiring smaller overall diameter and mass.

CONSTRUCTION

Parameter	Value
Core	Tinned copper, three power cores plus three earth cores
Insulation	XR-EP-90 with printed core identification on black semiconductive elastomer insulation screen
Earth	Three elastomer covered tinned annealed copper cores disposed in the cable interstices
Pilot	One EPR covered central extensible pilot core
Pilot resistance	Maximum DC resistance 3 ohm/100m up to 35 mm ² power conductor size; 2 ohm/100m above 35 mm ²
Sheath	Extra heavy duty XHD-85-PCP sheath with polyaramid braid reinforcement

CABLE CHARACTERISTICS

Parameter	Value
Standard	AS/NZS 2802
Voltage range	3.3 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 441.3 - 3.3 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
25-441-3	25	7.2	2.2	0.951	0.120	1.66	0.395
35-441-3	35	8.4	2.2	0.698	0.115	1.23	0.437
50-441-3	50	9.7	2.4	0.523	0.113	0.927	0.450
70-441-3	70	12.0	2.4	0.346	0.105	0.626	0.525
95-441-3	95	13.3	2.4	0.271	0.100	0.500	0.563
120-441-3	120	15.3	2.4	0.210	0.0959	0.400	0.628
150-441-3	150	17.2	2.4	0.166	0.0929	0.329	0.687
185-441-3	185	18.8	2.4	0.137	0.0906	0.284	0.741
240-441-3	240	21.7	2.4	0.107	0.0874	0.239	0.833
300-441-3	300	24.3	2.4	0.0851	0.0850	0.208	0.917

TYPE 441.3 - 3.3 kV - EARTH, SHEATH AND MASS				
Part	Earth area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
25-441-3	5.3	4.9	45.9	320
35-441-3	5.3	5.2	48.8	370
50-441-3	8	5.7	54.4	470
70-441-3	12.5	6.0	59.5	595
95-441-3	16	6.3	62.7	685
120-441-3	20	6.5	67.2	815
150-441-3	27	6.6	71.3	965
185-441-3	32	6.7	75.1	1105
240-441-3	39.5	6.9	81.6	1350
300-441-3	50	7.0	87.4	1620

TECHNICAL DATA

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

TYPE 441.6 - 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
25-441-6	25	7.2	3.0	0.951	0.126	1.66	0.309
35-441-6	35	8.4	3.0	0.698	0.121	1.23	0.340
50-441-6	50	9.7	3.0	0.523	0.116	0.928	0.375
70-441-6	70	12.0	3.0	0.346	0.108	0.628	0.435
95-441-6	95	13.3	3.0	0.271	0.103	0.502	0.465
120-441-6	120	15.3	3.0	0.210	0.0990	0.402	0.518
150-441-6	150	17.2	3.0	0.166	0.0958	0.332	0.566
185-441-6	185	18.8	3.0	0.137	0.0934	0.287	0.608
240-441-6	240	21.7	3.0	0.106	0.0899	0.241	0.682
300-441-6	300	24.3	3.0	0.0849	0.0877	0.211	0.754

TYPE 441.6 - 6.6 kV - EARTH, SHEATH AND MASS				
Part	Earth area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
25-441-6	5.3	5.3	50.2	370
35-441-6	5.3	5.6	53.3	425
50-441-6	8	6.0	57.6	515
70-441-6	12.5	6.3	62.6	640
95-441-6	16	6.4	65.5	725
120-441-6	20	6.6	70.1	860
150-441-6	27	6.7	74.2	1015
185-441-6	32	6.8	78.0	1155
240-441-6	39.5	7.0	84.6	1410
300-441-6	50	7.1	90.4	1680

TECHNICAL DATA

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

TYPE 441.11 - 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
25-441-11	25	7.2	5.0	0.951	0.137	1.66	0.217
35-441-11	35	8.4	5.0	0.698	0.131	1.23	0.236
50-441-11	50	9.7	5.0	0.523	0.124	0.931	0.258
70-441-11	70	12.0	5.0	0.346	0.116	0.632	0.296
95-441-11	95	13.3	5.0	0.271	0.112	0.508	0.317
120-441-11	120	15.3	5.0	0.210	0.108	0.409	0.350
150-441-11	150	17.2	5.0	0.166	0.104	0.339	0.381
185-441-11	185	18.8	5.0	0.137	0.101	0.295	0.407
240-441-11	240	21.7	5.0	0.106	0.0970	0.249	0.453
300-441-11	300	24.3	5.0	0.0846	0.0942	0.219	0.499

TYPE 441.11 - 11 kV - EARTH, SHEATH AND MASS				
Part	Earth area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
25-441-11	5.3	6.3	60.9	500
35-441-11	5.3	6.4	63.6	555
50-441-11	8	6.5	66.7	635
70-441-11	12.5	6.6	71.6	765
95-441-11	16	6.8	74.8	870
120-441-11	20	6.9	79.3	1010
150-441-11	27	7.0	83.6	1180
185-441-11	32	7.1	87.2	1320
240-441-11	39.5	7.3	93.8	1585
300-441-11	50	7.5	100.0	1880

TECHNICAL DATA

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

TYPE 441.22 - 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
35-441-22	35	8.4	7.6	0.698	0.143	1.23	0.178
50-441-22	50	9.7	7.6	0.523	0.136	0.936	0.194
70-441-22	70	12.0	7.6	0.346	0.127	0.638	0.219
95-441-22	95	13.3	7.6	0.271	0.123	0.515	0.234
120-441-22	120	15.3	7.6	0.210	0.118	0.417	0.256
150-441-22	150	17.2	7.6	0.165	0.113	0.346	0.276
185-441-22	185	18.8	7.6	0.136	0.110	0.303	0.294
240-441-22	240	21.7	7.6	0.106	0.105	0.258	0.325

TYPE 441.22 - 22 kV - EARTH, SHEATH AND MASS				
Part	Earth area each mm2	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
35-441-22	5.3	6.9	76.0	750
50-441-22	8	7.0	79.2	840
70-441-22	12.5	7.1	84.1	980
95-441-22	16	7.2	87.0	1085
120-441-22	20	7.3	91.7	1245
150-441-22	27	7.4	95.8	1415
185-441-22	32	7.6	99.8	1580
240-441-22	39.5	7.7	106	1850

CERTIFICATIONS



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