



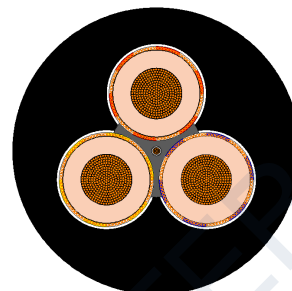
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 209 COMPOSITE SCREENED CABLE

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



APPLICATION

Composite screened three-core cable with a single extensible central pilot. Used for feeder connections between transformer and gate-end box, and for feeder supply to pumps, fans, crushers and other underground mine equipment. The cable can also be used above ground for power supply to mobile equipment.

CONSTRUCTION

Parameter	Value
Core	Tinned copper, three phase cores plus central pilot
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	Single central pilot core
Sheath	Heavy duty HD-85-PCP elastomer sheath

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 209.1 - 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	Sheath mm	Cable Dia. mm	Mass kg/100m
10-209-1	10	4.6	1.5	2.58	0.130	4.47	0.314	8.2	3.8	33.3	175
16-209-1	16	6.2	1.6	1.58	0.118	2.74	0.379	10	4.0	37.3	225
25-209-1	25	7.2	1.6	0.951	0.112	1.66	0.432	12	4.3	40.3	285
35-209-1	35	8.4	1.6	0.698	0.107	1.22	0.493	14	4.6	43.6	335
50-209-1	50	9.7	1.7	0.523	0.104	0.924	0.526	14	5.0	47.7	410
70-209-1	70	12.0	1.8	0.346	0.0981	0.623	0.599	16	5.4	54.0	540
95-209-1	95	13.3	2.0	0.271	0.0955	0.498	0.591	18	6.0	58.9	645
120-209-1	120	15.3	2.1	0.210	0.0925	0.397	0.640	21	6.4	64.6	790
150-209-1	150	17.2	2.3	0.166	0.0907	0.328	0.652	23	6.9	70.4	955
185-209-1	185	18.8	2.5	0.137	0.0902	0.284	0.657	30	7.4	76.5	1155
240-209-1	240	21.7	2.8	0.107	0.0883	0.240	0.672	34	8.2	85.5	1445
300-209-1	300	24.3	3.0	0.0850	0.0873	0.211	0.719	49	8.8	94.3	1790

TYPE 209.3 - 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	Sheath mm	Cable Dia. mm	Mass kg/100m
16-209-3	16	6.2	3.0	1.58	0.131	2.75	0.255	14	5.3	47.3	335
25-209-3	25	7.2	3.0	0.951	0.125	1.66	0.280	15	5.6	50.4	400
35-209-3	35	8.4	3.0	0.698	0.119	1.23	0.311	16	5.9	53.5	460
50-209-3	50	9.7	3.0	0.523	0.114	0.927	0.347	17	6.3	57.2	540
70-209-3	70	12.0	3.0	0.346	0.106	0.627	0.408	19	6.6	62.6	665
95-209-3	95	13.3	3.0	0.271	0.102	0.502	0.439	21	7.1	66.4	765
120-209-3	120	15.3	3.0	0.210	0.0985	0.402	0.492	27	7.4	72.0	930
150-209-3	150	17.2	3.0	0.166	0.0954	0.332	0.541	32	7.8	76.7	1095
185-209-3	185	18.8	3.0	0.137	0.0942	0.288	0.584	42	8.2	82.3	1285
240-209-3	240	21.7	3.0	0.106	0.0906	0.242	0.659	48	8.8	89.6	1555
300-209-3	300	24.3	3.0	0.0849	0.0890	0.213	0.727	63	9.4	97.7	1900

TECHNICAL DATA

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

TYPE 209.6 - 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	Sheath mm	Cable Dia. mm	Mass kg/100m
16-209-6	16	6.2	5.0	1.58	0.143	2.75	0.181	17	6.4	58.2	475
25-209-6	25	7.2	5.0	0.951	0.137	1.66	0.193	19	6.7	61.7	560
35-209-6	35	8.4	5.0	0.698	0.130	1.23	0.212	21	7.0	64.8	630
50-209-6	50	9.7	5.0	0.523	0.124	0.931	0.234	22	7.3	68.2	715
70-209-6	70	12.0	5.0	0.346	0.116	0.632	0.271	23	7.7	73.8	860
95-209-6	95	13.3	5.0	0.271	0.113	0.509	0.292	30	8.1	78.0	995
120-209-6	120	15.3	5.0	0.210	0.108	0.409	0.325	32	8.5	83.2	1155
150-209-6	150	17.2	5.0	0.166	0.105	0.340	0.354	46	8.9	89.2	1370
185-209-6	185	18.8	5.0	0.136	0.102	0.294	0.381	48	9.3	93.3	1540
240-209-6	240	21.7	5.0	0.106	0.0981	0.250	0.426	53	9.9	101	1825
300-209-6	300	24.3	5.0	0.0845	0.0959	0.221	0.467	71	10.4	109	2195

TYPE 209.11 - 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	Sheath mm	Cable Dia. mm	Mass kg/100m
25-209-11	25	7.2	7.6	0.951	0.150	1.67	0.150	24	8.1	75.9	805
35-209-11	35	8.4	7.6	0.698	0.143	1.23	0.163	30	8.4	79.6	915
50-209-11	50	9.7	7.6	0.523	0.136	0.936	0.178	32	8.7	83.0	1010
70-209-11	70	12.0	7.6	0.346	0.127	0.638	0.204	35	9.1	88.7	1185
95-209-11	95	13.3	7.6	0.271	0.124	0.516	0.219	48	9.6	93.8	1360
120-209-11	120	15.3	7.6	0.210	0.119	0.418	0.241	53	9.9	98.7	1540
150-209-11	150	17.2	7.6	0.165	0.114	0.347	0.261	56	10.3	103	1725
185-209-11	185	18.8	7.6	0.136	0.111	0.304	0.279	56	10.7	108	1900
240-209-11	240	21.7	7.6	0.106	0.107	0.261	0.309	77	11.3	116	2280

CERTIFICATIONS



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