



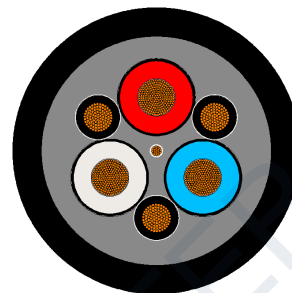
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 241SF SEMICONDUCTIVE SCREENED CABLE

1.1/1.1 kV to 11/11 kV maximum-flexibility cable to AS/NZS 1802



APPLICATION

Semiconductive elastomer screened power cores, with three earth cores and one extensible pilot. Designed for applications requiring maximum flexibility in arduous underground mining conditions, including continuous miners, feeder cables to pumps, monorails supplying DCBs and longwalls.

CONSTRUCTION

Parameter	Value
Core	Tinned copper, three phase cores, three earth cores plus central pilot
Flexibility	Very flexible Type 241SF construction
Conductor separator	Polyester where necessary for 1.1/1.1 kV; semi-conductive screen for 3.3 kV and above
Insulation	EPR compound, R-EP-90, with durably printed core numbers for phase identification
Screen	Semi-conductive elastomer screen
Pilot	Single central pilot core
Earth	Three semi-conductive elastomer covered flexible earth cores located in the interstices
Sheath	Open weave reinforcement under 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 241.1 SF - 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	Earth mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
70-241-1 SF	70	12.1	1.8	0.346	0.0985	0.623	0.619	12.5	5.3	52.7	525
95-241-1 SF	95	13.6	2.0	0.271	0.0968	0.498	0.622	12.5	5.8	57.6	635
120-241-1 SF	120	15.6	2.1	0.210	0.0938	0.398	0.673	13.75	6.3	63.6	785
150-241-1 SF	150	17.5	2.3	0.166	0.0922	0.329	0.685	17	6.7	69.2	955
185-241-1 SF	185	19.0	2.5	0.137	0.0898	0.284	0.674	22	7.3	74.8	1115
240-241-1 SF	240	21.9	2.8	0.107	0.0881	0.240	0.689	27	8.0	83.7	1405
300-241-1 SF	300	24.4	3.0	0.0851	0.0862	0.210	0.736	35.7	8.7	91.2	1715

TYPE 241.3 SF - 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	Earth mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
70-241-3 SF	70	12.1	3.0	0.346	0.107	0.627	0.422	12.5	6.4	60.9	635
95-241-3 SF	95	13.6	3.0	0.271	0.103	0.502	0.461	16	6.8	64.8	750
120-241-3 SF	120	15.6	3.0	0.210	0.0991	0.402	0.517	20	7.2	70.0	900
150-241-3 SF	150	17.5	3.0	0.166	0.0961	0.332	0.568	27	7.6	74.8	1075
185-241-3 SF	185	19.0	3.0	0.137	0.0924	0.286	0.600	35.2	8.0	78.9	1225
240-241-3 SF	240	21.9	3.0	0.107	0.0891	0.241	0.675	39.5	8.6	86.2	1485
300-241-3 SF	300	24.4	3.0	0.0851	0.0867	0.210	0.744	50	9.1	92.7	1775

TECHNICAL DATA

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

TYPE 241.6 SF - 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	Earth mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
70-241-6 SF	70	12.1	5.0	0.346	0.118	0.633	0.283	12.5	7.4	72.0	820
95-241-6 SF	95	13.6	5.0	0.271	0.114	0.509	0.307	16	7.9	76.1	945
120-241-6 SF	120	15.6	5.0	0.210	0.109	0.410	0.341	20	8.3	81.3	1110
150-241-6 SF	150	17.5	5.0	0.166	0.105	0.340	0.371	27	8.6	85.8	1290
185-241-6 SF	185	19.0	5.0	0.137	0.101	0.295	0.390	35.2	9.0	89.9	1445
240-241-6 SF	240	21.9	5.0	0.106	0.0971	0.249	0.436	39.5	9.6	97.2	1725
300-241-6 SF	300	24.4	5.0	0.0847	0.0941	0.219	0.478	50	10.2	104	2040

TYPE 241.11 SF - 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	Earth mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
70-241-11 SF	70	12.1	7.6	0.346	0.129	0.640	0.212	12.5	8.9	86.4	1090
95-241-11 SF	95	13.6	7.6	0.271	0.125	0.517	0.229	16	9.3	90.3	1225
120-241-11 SF	120	15.6	7.6	0.210	0.119	0.418	0.252	20	9.7	95.5	1405
150-241-11 SF	150	17.5	7.6	0.165	0.115	0.348	0.273	27	10.0	100.0	1600
185-241-11 SF	185	19.0	7.6	0.136	0.110	0.303	0.286	35.2	10.4	104	1765
240-241-11 SF	240	21.9	7.6	0.106	0.106	0.260	0.317	39.5	11.0	111	2080

CERTIFICATIONS

