



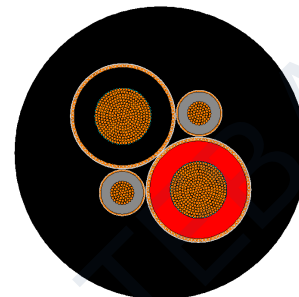
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

MINE FEEDER TYPE 2S AND TYPE 2S.3 CABLE

1.1/1.1 kV and 3.3/3.3 kV elastomer insulated and sheathed screened cable



APPLICATION

Screened elastomer insulated and sheathed cable for wiring mobile equipment such as continuous miners, shuttle cars, road headers and personnel transporters. Type 2S cables are sheathed and do not require further mechanical protection for external non-protected installations. Suitable for equipment interconnection and longwall lighting systems.

CONSTRUCTION

Parameter	Value
Conductor	Tinned annealed copper conductor
Insulation	EPR R-EP-90
Pilot	Tinned annealed copper pilot, R-EP-90 insulated where required
Screen	Tinned copper wire and polyester yarn composite braid screen
Screening option	Cores can be individually or collectively screened
Sheath	HD-90-CPE black sheath

CABLE CHARACTERISTICS

Parameter	Value
Standard	AS/NZS 1972
Rated voltage	1.1/1.1 kV Type 2S; 3.3/3.3 kV Type 2S.3
Maximum continuous operating temperature	+90 deg C
Minimum installation temperature	-25 deg C
Installation conditions	In free air for mobile equipment
Oil / water performance	Very good immersion performance and very good flexibility
Flame performance	C1

TECHNICAL DATA

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

1.1/1.1 kV TYPE 2S - INDIVIDUALLY SCREENED - ELECTRICAL DATA

Area mm ²	Cores	Cond. dia. mm	Insul. thick. mm	AC res. 90 deg C oh/km	React. 50 Hz oh/km	Volt drop mV/A.m	Max DC res. combined oh/km
10	2	4.6	1.0	2.58	0.0953	4.47	6.06
16	2	6.2	1.0	1.58	0.0879	2.74	3.72
10	3	4.6	1.0	2.58	0.0953	4.47	6.06
16	3	6.2	1.0	1.58	0.0879	2.74	3.72
10	4	4.6	1.0	2.58	0.103	4.47	6.06
16	4	6.2	1.0	1.58	0.0954	2.74	3.72
16	2	6.2	1.0	1.58	0.0786	2.74	3.72
6	2	3.5	1.0	4.32	0.0936	7.48	8.21
10	2	4.6	1.0	2.58	0.0860	4.47	6.06
16	2	6.2	1.0	1.58	0.0786	2.74	3.72
6	3	3.5	1.0	4.32	0.119	7.49	8.21
10	3	4.6	1.0	2.58	0.104	4.47	6.06
16	3	6.2	1.0	1.58	0.0879	2.74	3.72
25	3	7.2	1.2	0.951	0.0870	1.65	2.24
35	3	8.4	1.2	0.698	0.0837	1.22	1.64
50	3	9.7	1.4	0.523	0.0828	0.917	1.23

1.1/1.1 kV TYPE 2S - INDIVIDUALLY SCREENED - PILOT, DIMENSIONS AND MASS

Area mm ²	Cores	Pilot area mm ²	Pilot cores	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
10	2	-	-	1.8	18.9	60
16	2	-	-	1.8	22.1	85
10	3	-	-	1.8	20.1	75
16	3	-	-	1.8	23.5	105
10	4	-	-	1.8	22.1	95
16	4	-	-	1.8	25.9	130
16	2	1	1	1.8	22.1	100
6	2	1	2	1.8	16.9	50
10	2	1	2	1.8	19.0	65
16	2	1	2	1.8	22.1	90
6	3	1	3	1.8	19.8	70
10	3	1	3	1.8	21.3	85
16	3	1	3	1.8	23.5	110
25	3	1	3	1.8	26.8	155
35	3	1	3	1.8	29.5	190
50	3	1	3	1.9	33.4	245

TECHNICAL DATA

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

3.3/3.3 kV TYPE 2S.3 - INDIVIDUALLY SCREENED - ELECTRICAL DATA

Area mm ²	Cores	Cond. dia. mm	Insul. thick. mm	AC res. 90 deg C oh/km	React. 50 Hz oh/km	Volt drop mV/A.m	Max DC res. combined oh/km
10	3	4.6	3.0	2.58	0.125	4.47	6.06
16	3	6.2	3.0	1.58	0.116	2.74	3.72
25	3	7.2	3.0	0.951	0.110	1.66	2.24
35	3	8.4	3.0	0.698	0.105	1.22	1.64
50	3	9.7	3.0	0.523	0.101	0.923	1.23
70	3	12.0	3.0	0.346	0.0950	0.621	0.813
95	3	13.3	3.0	0.271	0.0926	0.496	0.636
120	3	15.3	3.0	0.210	0.0897	0.396	0.492

3.3/3.3 kV TYPE 2S.3 - INDIVIDUALLY SCREENED - PILOT, DIMENSIONS AND MASS

Area mm ²	Cores	Pilot area mm ²	Pilot cores	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
10	3	1.5	3	1.8	30.5	140
16	3	1.5	3	1.9	34.7	185
25	3	1.5	3	2.0	37.3	235
35	3	1.5	3	2.0	39.8	275
50	3	1.5	3	2.1	42.8	325
70	3	1.5	3	2.3	48.3	435
95	3	1.5	3	2.4	51.4	515
120	3	1.5	3	2.5	56.4	640

1.1/1.1 kV TYPE 2S - COLLECTIVELY SCREENED - ELECTRICAL DATA

Area mm ²	Cores	Cond. dia. mm	Insul. thick. mm	AC res. 90 deg C oh/km	React. 50 Hz oh/km	Volt drop mV/A.m	Max DC res. combined oh/km
1.5	2	1.6	1.0	17.5	0.118	30.3	13.7
1.5	3	1.6	1.0	17.5	0.119	30.3	13.7
1.5	4	1.6	1.0	17.5	0.126	30.3	13.7
1.5	6	1.6	1.0	17.5	0.135	30.3	13.7
1.5	16	1.6	1.0	17.5	0.164	30.3	13.7
1.5	30	1.6	1.0	17.5	0.181	30.3	13.7

1.1/1.1 kV TYPE 2S - COLLECTIVELY SCREENED - PILOT, DIMENSIONS AND MASS

Area mm ²	Cores	Pilot area mm ²	Pilot cores	Sheath thick. mm	Nom. dia. mm	Approx mass kg/100m
1.5	2	-	-	1.8	12.2	20
1.5	3	-	-	1.8	12.7	25
1.5	4	-	-	1.8	13.7	25
1.5	6	-	-	1.8	16.0	35
1.5	16	-	-	1.8	22.8	75
1.5	30	-	-	1.8	29.1	120

CERTIFICATIONS



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