



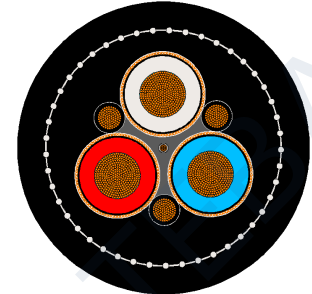
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 441.1 CLASS 2 SCREENED MINING CABLE

1.1/1.1 kV semiconductive screened cable to AS/NZS 2802



APPLICATION

Semiconductive screened mining cable for general use in mines, except for underground coal mines. Suitable for underground and open mines where screened cores and reinforcement are required.

CONSTRUCTION

Parameter	Value
Conductor	Electrolytic, multiple-stranded circular flexible tinned copper wire, rope lay, AS/NZS 1125-2.10
Insulation	Power and pilot cores insulated with R-EP-90, Class 2 compound according to AS/NZS 3808; earth cores not insulated
Separator	Semiconductive layer over power core insulation
Layup	Cores laid up over a semiconductive cradle with one central pilot core, in contact with interstitial earth cores
Bedding	Semiconductive elastomeric compound
Reinforcement	Open weave braid reinforcement
Outer sheath	Heavy-duty elastomer outer sheath according to AS/NZS 3808

CABLE CHARACTERISTICS

Parameter	Value
Standard	AS/NZS 2802
Rated voltage	1.1/1.1 kV
Test voltage	4.2 kV
Core arrangement	3 phase cores, 3 interstitial earth cores and 1 central pilot core
Screening	All cores screened by semiconductive filler
Environment	Underground and open mining service

TECHNICAL DATA

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

TYPE 441.1 - 1.1/1.1 kV CLASS 2 - POWER, EARTH AND PILOT CORES									
Cross section mm2	Conductor strand no/mm	Conductor dia. mm	Insul. thick. mm	Insul. dia. mm	Earth strand no/mm	Earth section mm2	Semi-cond. cover mm	Pilot strand no/mm	Pilot insul. mm
6	84/0.30	3.4	1.5	6.5	30/0.30	2.2	0.8	24/0.20	0.8
10	77/0.40	4.6	1.5	7.7	48/0.30	3.4	0.8	24/0.20	0.8
16	126/0.40	5.7	1.6	9	75/0.30	5.3	1.0	24/0.20	0.8
25	209/0.40	7.2	1.6	10.5	75/0.30	5.3	1.0	24/0.20	0.8
35	285/0.40	8.5	1.6	11.8	75/0.30	5.3	1.0	24/0.20	0.8
50	380/0.40	10	1.7	13.5	114/0.30	8.1	1.0	40/0.20	0.8
70	203/0.67	12	1.8	16	36/0.67	12.7	1.0	40/0.20	0.8
95	259/0.67	13.2	2.0	17.6	45/0.67	15.9	1.0	40/0.20	0.8
120	336/0.67	15.3	2.1	20	57/0.67	20.1	1.0	40/0.20	0.8
150	427/0.67	17.1	2.3	22.2	77/0.67	27.2	1.2	40/0.20	0.8
185	518/0.67	19.2	2.5	24.7	91/0.67	32.1	1.2	40/0.20	0.8
240	672/0.67	21.8	2.8	27.9	112/0.67	39.5	1.2	40/0.20	0.8
300	854/0.67	24.4	3.0	30.9	144/0.67	50.8	1.4	40/0.20	0.8

TYPE 441.1 - SHEATH AND MASS				
Cross section mm2	Sheath thick. mm	Overall dia. mm	Cable mass kg/km	Copper mass kg/km
6	3.8	28.5	1100	244
10	3.8	31.1	1350	394
16	3.9	34.1	1750	621
25	4.2	37.9	2300	885
35	4.4	41.2	2750	1173
50	4.9	45.9	3500	1686
70	5.3	52.2	4800	2394
95	5.8	56.7	5800	3206
120	6.3	62.7	7250	4047
150	6.7	68.3	8800	5116
185	7.3	74.9	10500	6265
240	8.0	83.3	13300	8062
300	8.7	91.2	16300	10116

CERTIFICATIONS

