



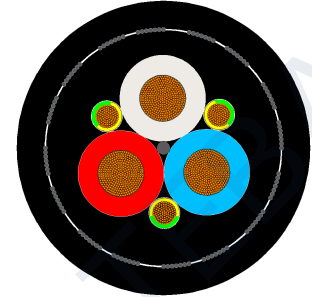
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 412 GENERAL USE MINING CABLE

1.1/1.1 kV cable to AS/NZS 2802



APPLICATION

Mining supply cable for general use where mechanical protection and strength are required, except for underground coal mines. Suitable for underground and open mines.

CONSTRUCTION

Parameter	Value
Conductor	Electrolytic, multiple-stranded circular flexible tinned copper wire, rope lay, AS/NZS 1125-2.10
Insulation	R-EP-90, Class 2 compound according to AS/NZS 3808
Layup	Three phase cores and three interstitial earth cores laid up over an elastomeric cradle
Bedding	Elastomeric compound
Armour	Galvanized steel pliable armour according to AS/NZS 3863
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 and 3 interstitial earth cores
Mechanical protection	Flexible galvanized steel wire armour
Environment	Underground and open mining service

TECHNICAL DATA

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

TYPE 412.1 - 1.1/1.1 kV CLASS 2 INSULATION - POWER AND EARTH CORES

Cross section mm ²	Conductor strand no/mm	Conductor dia. mm	Insul. thick. mm	Insul. dia. mm	Earth strand no/mm	Earth section mm ²	Semi-cond. cover mm
35	285/0.40	8.5	1.6	11.8	75/0.3	5.3	0.6
50	380/0.40	10	1.7	13.5	114/0.3	8.1	0.8
70	203/0.67	12	1.8	16	36/0.67	12.7	0.8
95	259/0.67	13.2	2.0	17.6	45/0.67	15.9	0.8
120	336/0.67	15.3	2.1	20	57/0.67	20.1	1.0
150	427/0.67	17.1	2.3	22.2	77/0.67	27.2	1.0
185	518/0.67	19.2	2.5	24.7	91/0.67	32.1	1.0
240	672/0.67	21.8	2.8	27.9	112/0.67	39.5	1.2
300	854/0.67	24.4	3.0	30.9	144/0.67	50.8	1.2

TYPE 412.1 - ARMOUR, SHEATH AND MASS

Inner sheath dia. mm	Armour wires no/mm	Over armour mm	Inner sheath mm	Outer sheath mm	Overall dia. mm	Cable mass kg/km	Copper mass kg/km
30.8	7/0.90	36.2	2.5	4.0	44.6	4150	1161
34.5	7/0.90	39.9	2.5	4.4	49.2	5000	1674
39.8	7/0.90	45.2	2.5	4.8	55.4	6550	2382
43.3	7/0.90	48.7	2.5	5.4	60.1	7750	3194
50.4	7/0.90	55.8	3.5	5.8	68.1	9750	4035
55.1	7/0.90	60.5	3.5	6.3	73.8	11500	5104
60.5	7/0.90	65.9	3.5	6.8	80.2	13600	6253
67.5	7/0.90	72.9	3.5	7.5	88.7	16700	8050
76.1	7/1.25	83.6	4.5	8.2	100.9	22000	10104

CERTIFICATIONS



TEBAOFLEX CABLE