



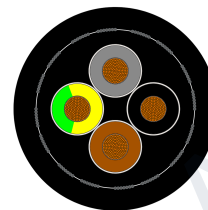
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 111 TYPE 21 MINING POWER CABLE

EPR insulated, unscreened and steel-armoured cable



APPLICATION

Power supply for excavating and crushing machines and equipment. For deep mines where explosive gases and dust can accumulate, and surface use.

KEY FEATURES

Parameter	Value
Rated voltage	600/1000 V
Test voltage	3 kV
Conductor	Stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Core arrangement	Four unscreened cores around an elastomeric cradle
Armour	Galvanized steel pliable armour

CABLE DESIGN

Parameter	Value
Lay-up	Cores laid around a cradle without contacting each other
Bedding	Rubber-based bedding compound
Outer sheath	Heavy-duty chloroprene compound
Related standard	MGM 115/1985

TECHNICAL DATA

MGM 111 TYPE 21 - TECHNICAL DATA - PART 1						
Cable type	4x2.5	4x4	4x6	4x10	4x16	4x25
Cores / cross-section mm ²	4x2.5	4x4	4x6	4x10	4x16	4x25
Stranding mm	50/0.25	56/0.30	84/0.30	80/0.40	126/0.40	196/0.40
Conductor diameter Nom. mm	2.10	2.70	3.30	4.40	5.50	7.10
Insulation thickness mm	1.4	1.4	1.5	1.5	1.5	1.6
Radial inner sheath mm	2.0	2.0	2.5	2.5	2.5	2.5
Size of armour mm	7/0.45	7/0.45	7/0.71	7/0.71	7/0.71	7/0.90
Outer sheath thickness mm	2.5	2.5	3.8	3.8	3.9	4.3
Min. overall diameter mm	26.2	27.7	36.7	38.8	41.5	46.6
Max. overall diameter mm	28.6	30.1	38.8	41.0	44.0	49.8
Min. bending radius mm	258	271	350	369	396	449
Approx. cable weight kg/km	1150	1320	2350	2740	3170	4030
Copper weight kg/km	96	154	230	384	614	960
Current rating at 25 C A	28	37	46	63	85	110
Phase/earth conductor ohm/km	8.21	5.09	3.39	1.95	1.24	0.795
Armour ohm/km	4.2	3.9	2.0	1.9	1.7	1.5

TECHNICAL DATA

MGM 111 TYPE 21 - TECHNICAL DATA - PART 2

Cable type	4x35	4x50	4x70	4x95	4x120	4x150
Cores / cross-section mm ²	4x35	4x50	4x70	4x95	4x120	4x150
Stranding mm	276/0.40	396/0.40	360/0.50	475/0.50	629/0.50	740/0.50
Conductor diameter Nom. mm	8.40	10.10	11.90	13.90	15.80	17.00
Insulation thickness mm	1.6	1.7	1.8	2.0	2.2	2.3
Radial inner sheath mm	2.5	2.5	2.5	3.8	3.8	5.0
Size of armour mm	7/0.90	7/0.90	7/0.90	7/0.90	7/0.90	7/1.25
Outer sheath thickness mm	4.7	5.1	5.7	6.3	6.8	7.3
Min. overall diameter mm	51.0	56.1	64.8	74.9	83.8	91.4
Max. overall diameter mm	56.1	61.8	71.4	78.6	89.0	95.3
Min. bending radius mm	505	557	643	708	801	858
Approx. cable weight kg/km	5220	6400	8060	10650	13450	15300
Copper weight kg/km	1344	192	2688	3648	4608	5760
Current rating at 25 C A	135	170	205	250	295	320
Phase/earth conductor ohm/km	0.565	0.393	0.277	0.210	0.164	0.132
Armour ohm/km	1.1	0.96	0.80	0.73	0.47	0.41

CERTIFICATIONS



TEBAOFLEX CABLE