



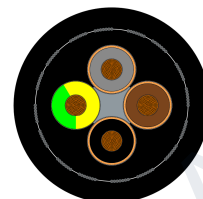
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 112 TYPE 201 / TYPE 211 MINING CABLE

EPR insulated, individually screened 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	660/1100 V
Test voltage	3 kV
Conductor	Stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Screen	Tinned copper / nylon braid over phase cores
Type 211 earth core	Unscreened

CABLE DESIGN

Parameter	Value
Lay-up	All cores laid up in contact
Bedding	Rubber-based bedding compound
Armour	Galvanized steel pliable armour
Outer sheath	Heavy-duty chloroprene compound
Related standard	MGM 112/1984

TECHNICAL DATA

MGM 112 - TYPE 201								
Cable type	3x10	3x16	3x25	3x35	3x50	3x70	3x95	3x120
Cores / cross-section mm ²	3x10	3x16	3x25	3x35	3x50	3x70	3x95	3x120
Stranding mm	80/0.40	126/0.40	196/0.40	276/0.40	396/0.40	360/0.50	475/0.50	608/0.50
Conductor diameter Nom. mm	4.40	5.50	7.10	8.40	10.10	11.90	13.90	15.50
Insulation thickness mm	1.5	1.5	1.6	1.6	1.6	1.8	2.0	2.2
Radial inner sheath mm	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8
Min. inner sheath diameter mm	25.5	28.7	32.2	35.2	39.5	44.5	52.5	56.6
Max. inner sheath diameter mm	27.5	30.7	34.2	37.2	41.5	47.0	55.5	59.6
Size of armour mm	7/0.71	7/0.71	7/0.71	7/0.71	7/0.71	7/0.90	7/1.25	7/1.25
Radial outer sheath mm	3.8	3.8	4.1	4.4	4.9	5.4	5.9	6.3
Min. overall diameter mm	37.3	40.6	44.6	48.3	53.6	60.7	71.8	76.7
Max. overall diameter mm	39.8	43.4	47.4	51.1	57.4	64.5	75.8	81.0
Min. bending radius mm	398	434	474	511	574	645	758	810
Approx. cable weight kg/km	2520	3220	3850	4600	5710	7450	10250	11800
Copper weight kg/km	488	741	1120	1868	2490	3686	4766	6566
Current rating at 25 C A	63	85	110	135	170	205	250	295
Phase conductor ohm/km	1.95	1.24	0.795	0.565	0.393	0.277	0.210	0.164
Armour ohm/km	1.97	1.76	1.45	1.03	1.00	0.51	0.39	0.30
3 screens parallel ohm/km	1.33	1.61	1.10	1.20	1.40	0.70	0.85	0.50

TECHNICAL DATA

MGM 112 - TYPE 211								
Cable type	3x10+10	3x16+16	3x25+16	3x35+25	3x50+35	3x70+50	3x95+70	3x120+70
Phase cores / cross-section mm ²	3x10	3x16	3x25	3x35	3x50	3x70	3x95	3x120
Phase stranding mm	80/0.40	126/0.40	196/0.40	276/0.40	396/0.40	360/0.50	475/0.50	608/0.50
Phase conductor diameter mm	4.40	5.50	7.10	8.40	10.10	11.90	13.90	15.50
Phase insulation thickness mm	1.5	1.5	1.6	1.6	1.7	1.8	2.0	2.2
Earth core / cross-section mm ²	1x10	1x16	1x16	1x25	1x35	1x50	1x70	1x70
Earth stranding mm	80/0.40	126/0.40	126/0.40	196/0.40	276/0.40	396/0.40	360/0.50	360/0.50
Earth conductor diameter mm	4.40	5.50	5.50	7.10	8.40	10.10	11.90	11.90
Earth insulation thickness mm	1.5	1.5	1.5	1.6	1.6	1.7	1.8	1.8
Radial inner sheath mm	2.5	2.5	2.5	2.5	2.5	3.8	5.0	5.0
Min. inner sheath diameter mm	27.9	31.6	35.4	38.8	43.7	51.8	60.3	64.9
Max. inner sheath diameter mm	29.9	33.6	37.4	40.8	46.2	54.8	63.3	67.9
Size of armour mm	7/0.71	7/0.71	7/0.71	7/0.71	7/0.71	7/0.90	7/1.25	7/1.25
Radial outer sheath mm	3.8	4.1	4.4	4.8	5.3	5.8	6.4	6.0
Min. overall diameter mm	39.8	44.0	48.5	52.7	59.7	68.8	80.6	86.0
Max. overall diameter mm	42.3	46.8	51.3	56.5	63.5	72.8	84.9	90.0
Min. bending radius mm	423	468	513	565	635	728	849	900
Approx. cable weight kg/km	3050	3920	4780	5800	7080	10550	16650	19000
Copper weight kg/km	584	895	1164	1608	2196	3036	4028	4758
Current rating at 25 C A	63	85	110	135	170	205	250	295
Phase conductor ohm/km	1.95	1.24	0.795	0.565	0.393	0.277	0.210	0.164
Earth conductor ohm/km	1.95	1.24	1.24	0.795	0.565	0.393	0.277	0.277
Armour ohm/km	1.81	1.63	1.45	1.03	0.715	0.504	0.382	0.299
3 screens parallel ohm/km	1.33	1.61	1.10	1.20	1.40	0.70	0.85	0.50

CERTIFICATIONS



TEBAOFLEX CABLE