



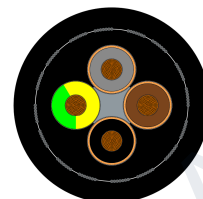
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 112 TYPE 331 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	1900/3300 V
Test voltage	7.5 kV
Conductor	Stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Phase-core screen	Tinned copper / nylon braid
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 331							
Cable type	3x25+16	3x35+16	3x35+25	3x50+35	3x70+50	3x95+70	3x120+70
Phase cores / cross-section mm ²	3x25	3x35	3x35	3x50	3x70	3x95	3x120
Phase stranding mm	196/0.40	276/0.40	276/0.40	396/0.40	360/0.50	475/0.50	608/0.50
Phase conductor diameter mm	7.10	8.40	8.40	10.10	11.90	13.90	15.50
Phase insulation thickness mm	3.0						
Earth core / cross-section mm ²	1x16	1x16	1x25	1x35	1x50	1x70	1x70
Earth stranding mm	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	5.50	5.50	7.10	8.40	10.10	11.90	11.90
Earth insulation thickness mm	3.6	3.8	4.0	3.8	3.8	3.8	3.8
Radial inner sheath mm	2.5	3.8	3.8	3.8	5.0	5.0	5.0
Min. inner sheath diameter mm	42.2	46.5	48.2	51.6	60.0	65.1	68.8
Max. inner sheath diameter mm	44.7	48.5	50.7	53.6	63.0	68.9	72.6
Size of armour mm	7/0.90	7/0.90	7/0.90	7/0.90	7/1.25	7/1.25	7/1.25
Radial outer sheath mm	5.1	5.9	5.9	5.9	6.4	6.9	7.3
Min. overall diameter mm	57.8	64.0	64.6	69.4	80.3	86.4	90.9
Max. overall diameter mm	61.6	66.7	68.4	73.4	84.6	90.7	95.2
Min. bending radius mm	740	801	821	881	1016	1089	1143
Approx. cable weight kg/km	6800	8500	8600	9750	15600	18100	20050
Copper weight kg/km	1164	1522	1608	2196	3036	4688	6578
Current rating at 25 C A	110	135	135	170	205	250	295
Phase conductor ohm/km	0.795	0.565	0.565	0.393	0.277	0.210	0.164
Earth conductor ohm/km	1.24	1.24	0.795	0.565	0.393	0.277	0.277
Armour ohm/km	0.965	0.900	0.844	0.715	0.488	0.382	0.299
3 screens parallel ohm/km	1.35	0.85	0.80	0.70	0.69	0.64	0.55

CERTIFICATIONS



TEBAOFLEX CABLE