



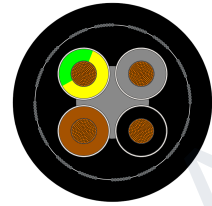
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 112 TYPE 321 MINING 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	1900/3300 V
Test voltage	7.5 kV
Conductor	Stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Phase cores	Unscreened
Earth core	Unscreened

CABLE DESIGN

Parameter	Value
Lay-up	Cores laid around an elastomeric cradle without 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 321						
Cable type	3x35+25	3x50+25	3x50+35	3x70+50	3x95+70	3x120+70
Phase cores / cross-section mm ²	3x35	3x50	3x50	3x70	3x95	3x120
Phase stranding mm	276/0.40	396/0.40	396/0.40	360/0.50	475/0.50	608/0.50
Phase conductor diameter mm	8.40	10.10	10.10	11.90	13.90	15.50
Phase insulation thickness mm	3.0					
Earth core / cross-section mm ²	1x25	1x25	1x35	1x50	1x70	1x70
Earth stranding mm	196/0.40	196/0.40	276/0.40	396/0.40	360/0.50	360/0.50
Earth conductor diameter mm	6.75	6.75	8.00	9.75	11.90	11.90
Earth insulation thickness mm	3.8	5.0	4.4	4.5	4.6	4.9
Radial inner sheath mm	2.5	3.8	3.8	3.8	5.0	5.0
Min. inner sheath diameter mm	44.3	51.3	51.3	56.4	63.8	67.5
Max. inner sheath diameter mm	46.8	53.3	53.3	59.4	66.8	71.3
Size of armour mm	7/0.90	7/0.90	7/0.90	7/0.90	7/1.25	7/1.25
Radial outer sheath mm	5.3	5.4	5.4	6.3	6.8	7.2
Min. overall diameter mm	60.3	66.9	66.9	74.4	84.9	89.4
Max. overall diameter mm	64.1	70.9	70.9	78.4	89.2	93.7
Min. bending radius mm	770	851	851	941	1071	1125
Approx. cable weight kg/km	7050	8750	8900	10200	15950	18700
Copper weight kg/km	1250	1680	1780	3570	4160	5950
Current rating at 25 C A	135	170	170	205	250	295
Phase conductor ohm/km	0.565	0.393	0.393	0.277	0.210	0.164
Earth conductor ohm/km	0.795	0.795	0.565	0.393	0.277	0.277
Armour ohm/km	0.92	0.79	0.79	0.50	0.38	0.30

CERTIFICATIONS



TEBAOFLEX CABLE