



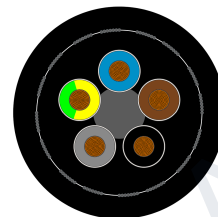
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 112 TYPE E2 / TYPE E4 / TYPE E5 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	660/1100 V
Test voltage	3 kV
Conductor	Stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Core screen	None
Core count	Type E2: 2 cores; Type E4: 4 cores; Type E5: 5 cores

CABLE DESIGN

Parameter	Value
Lay-up	Cores laid around a cradle without contact, except Type E2
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 E2

Cable type	2x4
Cores / cross-section mm ²	2x4
Stranding mm	56/0.30
Conductor diameter Nom. mm	2.60
Insulation thickness mm	1.0
Radial inner sheath mm	2.0
Size of armour mm	7/0.45
Radial outer sheath mm	2.5
Min. overall diameter mm	23.9
Max. overall diameter mm	26.4
Min. bending radius mm	264
Approx. cable weight kg/km	950
Copper weight kg/km	80
Current rating at 25 C A	28
Phase conductor ohm/km	5.09

MGM 112 - TYPE E5

Cable type	5x4	5x6	5x10	5x16
Cores / cross-section mm ²	5x4	5x6	5x10	5x16
Stranding mm	56/0.30	84/0.30	80/0.40	126/0.40
Conductor diameter Nom. mm	2.60	3.30	4.40	5.50
Insulation thickness mm	1.4	1.5	1.5	1.5
Radial inner sheath mm	2.0	2.0	2.5	2.5
Size of armour mm	7/0.45	7/0.50	7/0.70	7/0.70
Radial outer sheath mm	2.5	3.8	3.8	3.8
Min. overall diameter mm	31.0	38.0	42.4	46.5
Max. overall diameter mm	32.3	40.0	45.0	48.9
Min. bending radius mm	323	400	450	489
Approx. cable weight kg/km	1750	2900	3900	4800
Copper weight kg/km	200	290	480	770
Current rating at 25 C A	28	46	63	85
Phase conductor ohm/km	5.09	3.39	1.95	1.24

TECHNICAL DATA

MGM 112 - TYPE E4 - 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	7/0.70	7/0.70	7/0.70	7/0.70
Radial outer sheath mm	2.5	2.5	3.8	3.8	3.8	4.3
Min. overall diameter mm	26.2	27.7	36.7	38.8	41.5	46.1
Max. overall diameter mm	28.6	30.1	38.8	41.0	44.0	49.8
Min. bending radius mm	286	301	388	410	440	498
Approx. cable weight kg/km	1280	1450	2450	2900	3600	4450
Copper weight kg/km	100	160	240	390	620	960
Current rating at 25 C A	28	37	46	63	85	110
Phase conductor ohm/km	8.21	5.09	3.39	1.95	1.24	0.795

TECHNICAL DATA

MGM 112 - TYPE E4 - 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	608/0.50	756/0.50
Conductor diameter Nom. mm	8.40	10.10	11.90	13.90	15.80	17.00
Insulation thickness mm	1.6	1.7	1.7	2.0	2.2	2.3
Radial inner sheath mm	2.5	2.5	3.8	3.8	5.0	5.0
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	4.7	5.1	5.7	6.3	3.8	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	561	618	714	786	890	953
Approx. cable weight kg/km	5650	7350	9500	10950	15600	18500
Copper weight kg/km	1350	1920	2690	3650	4610	5760
Current rating at 25 C A	135	170	205	250	295	320
Phase conductor ohm/km	0.565	0.393	0.277	0.210	0.164	0.132

CERTIFICATIONS



TEBAOFLEX CABLE