



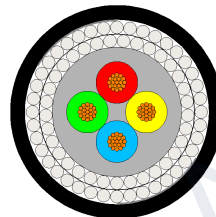
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 109 TYPE 1023,1024 LOW-VOLTAGE MINING CABLE

3-core and 4-core PVC insulated cable with twin galvanized steel wire armour



APPLICATION

Fixed installation cable for supplying machines and equipment. Suitable for deep mines where explosive gases and dust may accumulate, and for surface installations.

KEY FEATURES

Parameter	Value
Rated voltage	600/1000 V
Conductor	Electrolytic, stranded copper wire, IEC 60228 Class 1 or 2
Insulation	PVC
Armour	Two layers of flexible galvanized steel wire armour

CABLE DESIGN

Parameter	Value
Lay-up	All cores laid up in contact with each other
Bedding	PVC-based bedding compound
Separator	Galvanized steel tape, optional
Outer sheath	Special PVC compound

ELECTRICAL AND REFERENCE DATA

Parameter	Value
Related standard	MGM 109/1983
Test voltage	3 kV
Product families	MGM 109 Type 1023 and Type 1024
Availability	Other sizes and designs available on request

TECHNICAL DATA

MGM 109 TYPE 1023 - DIMENSIONS AND ELECTRICAL DATA					
Cable type	3x1.5	3x2.5	3x4	3x6	3x10
Insulation thickness mm	0.8	0.8	0.8	0.8	0.8
Radial inner sheath mm	7.4	10.3	12.4	13.6	16.5
Inner sheath diameter mm	1/0.9	1/0.9	1/0.9	1/1.25	1/1.25
Size of armour mm	1.4	1.5	1.6	1.6	1.7
Radial outer sheath mm	9.7	16.3	18.6	21.4	26.5
Min. overall diameter mm	13.7	20.3	22.6	25.4	30.5
Max. overall diameter mm	124	203	226	254	305
Min. bending radius mm	350	750	910	1300	1700
Approx. cable weight kg/km	45	75	120	190	310
Copper weight kg/km	990	1300	1650	2250	3150
Continuous current at 25 deg C A	18	26	34	44	61
Phase and earth conductors ohm/km	12.1	7.41	4.61	3.08	1.83
Armour ohm/km	20.17	9.71	6.15	4.11	2.44

TECHNICAL DATA

MGM 109 TYPE 1024 - DIMENSIONS AND ELECTRICAL DATA					
Cable type	4x1.5	4x2.5	4x4	4x6	4x10
Insulation thickness mm	0.8	0.8	0.8	0.8	1.0
Radial inner sheath mm	0.8	0.8	0.8	0.8	0.8
Inner sheath diameter mm	9.6	11.1	13.4	14.8	18.1
Size of armour mm	1/0.9	1/0.9	1/1.25	1/1.25	1/1.25
Radial outer sheath mm	1.5	1.5	1.6	1.7	1.8
Min. overall diameter mm	15.5	17.1	21.2	22.8	26.2
Max. overall diameter mm	19.5	21.1	25.2	26.8	30.2
Min. bending radius mm	195	211	252	268	302
Approx. cable weight kg/km	750	850	1250	1480	1980
Copper weight kg/km	60	100	160	240	385
Continuous current at 25 deg C A	18	26	34	44	61
Phase and earth conductors ohm/km	12.1	7.41	4.61	3.08	1.83
Armour ohm/km	16.10	9.71	6.15	4.11	2.44

CERTIFICATIONS



TEBAOFLEX CABLE