



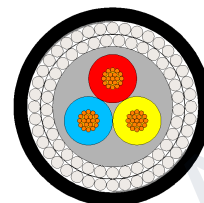
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 109 TYPE 3023 MEDIUM-VOLT MINING CABLE

3-core PVC power 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	1900/3300 V
Conductor	Electrolytic, stranded copper wire, IEC 60228 Class 2
Insulation	PVC
Armour	Two layers of flexible galvanized steel wire armour

CABLE DESIGN

Parameter	Value
Insulation	PVC
Separator	Semiconductor layer
Lay-up	All cores laid up in contact with each other
Bedding	PVC-based bedding compound
Outer sheath	Special PVC compound

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Related standard	MGM 109/1983
Test voltage	10 kV
Separator	Galvanized steel tape, optional
Availability	Other sizes and designs available on request

TECHNICAL DATA

MGM 109 TYPE 3023 - DIMENSIONS AND CABLE WEIGHTS										
Cable type	Insul. mm	Inner sheath mm	Inner dia. mm	Armour mm	Outer sheath mm	Min. OD mm	Max. OD mm	Bend radius mm	Cable wt. kg/km	Cu wt. kg/km
3x16	2.2	1.6	22.8	1/1.6	2.0	31.9	35.9	359	2500	465
3x25	2.2	1.6	25.4	1/1.6	2.0	34.5	38.5	385	3000	700
3x35	2.2	1.6	27.6	1/1.6	2.1	36.9	40.9	409	3500	1010
3x50	2.2	1.8	31.2	1/2.0	2.2	42.3	46.3	463	4600	1480
3x70	2.2	1.8	34.6	1/2.0	2.3	45.9	49.9	499	5550	2170
3x95	2.2	1.8	38.5	1/2.0	2.4	50.0	54.0	540	6800	3070
3x120	2.2	2.2	42.5	1/2.5	2.6	56.4	60.4	604	8550	3790
3x150	2.2	2.2	46.6	1/2.5	2.7	60.7	64.7	647	9800	4880
3x185	2.2	2.2	50.5	1/2.5	2.8	64.8	68.8	688	11350	6120
3x240	2.2	2.6	56.6	1/2.5	2.9	71.1	75.1	751	13950	8080
3x300	2.4	2.6	62.4	1/2.5	3.1	77.3	81.3	813	16700	10290
3x400	2.6	2.6	70.4	1/2.5	3.3	85.7	89.7	897	20750	13750
CONSTRUCTION AND APPLICATION NOTES										

Parameter	Value
Construction	3-core medium-voltage cable with two-layer galvanized steel wire armour
Conductor	Electrolytic stranded copper, IEC 60228 Class 2
Insulation	PVC insulation
Bedding and sheath	PVC-based bedding and special PVC outer sheath
Installation	Fixed installation for machinery, equipment, deep mines and surface use

ELECTRICAL DATA

MGM 109 TYPE 3023 - CURRENT RATING AND RESISTANCE			
Cable type	Current at 25 deg C A	Phase and earth conductors ohm/km	Armour ohms/km
3x16	82	1.15	1.53
3x25	108	0.727	0.97
3x35	135	0.524	0.699
3x50	168	0.387	0.516
3x70	207	0.268	0.357
3x95	250	0.193	0.257
3x120	292	0.153	0.204
3x150	335	0.124	0.165
3x185	382	0.0991	0.132
3x240	453	0.0754	0.101
3x300	523	0.0601	0.0801
3x400	620	0.0470	0.0627

REFERENCE INFORMATION	
Parameter	Value
Product family	MGM 109 Type 3023
Rated voltage	1900/3300 V
Test voltage	10 kV
Related standard	MGM 109/1983
Notice	Values correspond to the source specification and may change without notice

CERTIFICATIONS

