



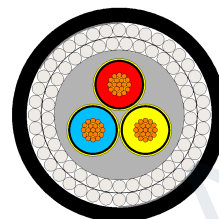
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 109 TYPE 3123 MEDIUM-VOLT MINING CABLE

3-core screened 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
Screening	Individual copper-backed tape screen around each core
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	6 kV
Optional separator	Galvanized steel tape
Availability	Other sizes and designs available on request

TECHNICAL DATA

MGM 109 TYPE 3123 - 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	24.8	1/1.6	2.0	33.9	37.9	379	2500	465
3x25	2.2	1.6	27.4	1/1.6	2.0	36.5	40.5	405	3000	700
3x35	2.2	1.6	29.6	1/1.6	2.1	38.9	42.9	429	3500	1010
3x50	2.2	1.8	33.2	1/2.0	2.2	44.3	48.3	483	4600	1480
3x70	2.2	1.8	36.6	1/2.0	2.3	47.9	51.9	519	5550	2170
3x95	2.2	1.8	40.5	1/2.0	2.4	52.0	56.0	560	6800	3070
3x120	2.2	2.2	44.5	1/2.5	2.6	58.4	62.4	624	8550	3790
3x150	2.2	2.2	48.6	1/2.5	2.7	62.7	66.7	667	9800	4880
3x185	2.2	2.2	52.5	1/2.5	2.8	66.8	70.8	708	11350	6120
3x240	2.2	2.6	58.6	1/2.5	2.9	73.1	77.1	771	13950	8080
3x300	2.4	2.6	64.4	1/2.5	3.1	79.3	83.3	833	16700	10290
3x400	2.6	2.6	72.4	1/2.5	3.3	87.7	91.7	917	20750	13750
CONSTRUCTION AND APPLICATION NOTES										

Parameter	Value
Construction	3-core medium-voltage cable with individual core screens and two-layer galvanized steel wire armour
Conductor	Electrolytic stranded copper, IEC 60228 Class 2
Insulation	PVC insulation with semiconductor separator layer
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 3123 - 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 3123
Rated voltage	1900/3300 V
Test voltage	6 kV
Related standard	MGM 109/1983
Notice	Values correspond to the source specification and may change without notice

CERTIFICATIONS



TEBAOFLEX CABLE