



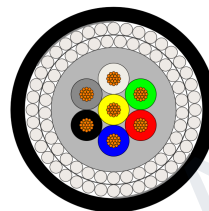
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 110 SINGLE-LAYER ARMoured MINING CABLE

PVC-based communication cables with galvanized steel armour



APPLICATION

Signal and telephone cable for fixed installations in mines and on the surface. Suitable for deep-mine environments where explosive gases and dust may accumulate.

KEY FEATURES

Parameter	Value
Rated voltage	110 V
Test voltage	1 kV
Conductor	Electrolytic, stranded, tinned copper wire, IEC 60228 Class 2
Insulation	PVC
Armour	Single layer of galvanized steel pliable armour

CABLE DESIGN

Parameter	Value
Lay-up	All cores laid up in contact; telephone cables laid up in pairs
Bedding	PVC-based bedding compound
Separator	Galvanized steel tape, optional
Outer sheath	Special PVC compound
Related standard	MGM 110/1984

TECHNICAL DATA

MGM 110 - SIGNAL CABLE					
Cable type	2x1.5	4x1.5	7x1.5	10x1.5	12x1.5
Stranding mm			7/0.5		
Conductor diameter Nom. mm			1.50		
Insulation thickness mm			0.5		
Core diameter mm			2.36 min - 2.64 max		
Radial inner sheath mm			1.0		
Size of armour mm	1/0.9	1/0.9	1/0.9	1/1.25	1/1.25
Radial outer sheath mm	1.4	1.5	1.5	1.6	1.6
Min. overall diameter mm	11.6	12.8	14.2	17.7	18.1
Max. overall diameter mm	13.0	14.4	15.8	19.3	19.7
Min. bending radius mm	104	116	127	155	158
Approx. cable weight kg/km	320	395	500	750	850
Copper weight kg/km	30	60	105	150	180

MGM 110 - SIGNAL CABLE					
Cable type	14x1.5	19x1.5	37x1.5	61x1.5	91x1.5
Stranding mm			7/0.5		
Conductor diameter Nom. mm			1.50		
Insulation thickness mm			0.5		
Core diameter mm			2.36 min - 2.64 max		
Radial inner sheath mm	1.0	1.0	1.2	1.2	1.4
Size of armour mm	1/1.25	1/1.25	1/1.6	1/1.6	1/2.0
Radial outer sheath mm	1.6	1.7	1.8	2.0	2.2
Min. overall diameter mm	18.6	20.2	26.5	32.1	38.5
Max. overall diameter mm	20.6	22.2	28.9	34.5	41.3
Min. bending radius mm	165	178	232	276	331
Approx. cable weight kg/km	950	1100	1900	2740	4050
Copper weight kg/km	210	280	540	880	1315

TECHNICAL DATA

MGM 110 - TELEPHONE CABLE						
Cable type	1x2x1.5	2x2x1.5	4x2x1.5	7x2x1.5	10x2x1.5	12x2x1.5
Stranding mm	7/0.5					
Conductor diameter Nom. mm	1.50					
Insulation thickness mm	0.5					
Core diameter mm	2.36 min - 2.64 max					
Radial inner sheath mm	1.0	1.0	1.0	1.0	1.2	1.2
Size of armour mm	1/0.9	1/0.9	1/1.25	1/1.6	1/1.6	1/1.6
Radial outer sheath mm	1.4	1.5	1.6	1.7	1.7	1.7
Min. overall diameter mm	11.6	12.8	17.6	20.5	27.0	30.5
Max. overall diameter mm	13.0	14.4	19.3	22.5	28.0	28.9
Min. bending radius mm	104	116	155	180	224	232
Approx. cable weight kg/km	320	395	690	900	1350	1460
Copper weight kg/km	30	60	120	210	290	350

MGM 110 - TELEPHONE CABLE						
Cable type	19x2x1.5	27x2x1.5	30x2x1.5	37x2x1.5	48x2x1.5	61x2x1.5
Stranding mm	7/0.5					
Conductor diameter Nom. mm	1.50					
Insulation thickness mm	0.5					
Core diameter mm	2.36 min - 2.64 max					
Radial inner sheath mm	1.2	1.4	1.4	1.4	1.4	1.6
Size of armour mm	1/1.6	1/2.0	1/2.0	1/2.0	1/2.0	1/2.5
Radial outer sheath mm	1.8	2.0	2.0	2.1	2.3	2.4
Min. overall diameter mm	32.9	36.9	37.0	40.8	46.1	51.3
Max. overall diameter mm	32.9	39.5	39.6	43.6	48.9	54.5
Min. bending radius mm	264	316	317	349	392	436
Approx. cable weight kg/km	2000	2800	3000	3450	4160	5500
Copper weight kg/km	550	780	870	1070	1390	1760

CERTIFICATIONS



TEBAOFLEX CABLE