



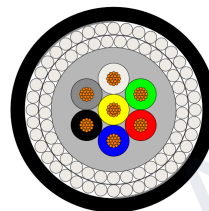
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 110 DOUBLE-LAYER ARMoured MINING CABLE

PVC-based communication cables with double-layer 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 1 or 2
Insulation	PVC
Armour	Two layers 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	1.5	1.6	1.6	1.7	1.7
Min. overall diameter mm	15.9	17.0	17.5	22.8	23.2
Max. overall diameter mm	17.3	18.6	19.1	24.4	24.8
Min. bending radius mm	156	168	172	220	224
Approx. cable weight kg/km	570	680	820	1280	1350
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	1.7	1.8	1.9	2.1	2.3
Min. overall diameter mm	23.8	25.3	32.5	37.7	45.1
Max. overall diameter mm	25.8	27.3	34.9	40.1	47.9
Min. bending radius mm	233	246	315	361	432
Approx. cable weight kg/km	1450	1650	2850	3000	5600
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	1/1.25	1/1.6	1/1.6
Radial outer sheath mm	1.4	1.5	1.6	1.7	1.9	1.9
Min. overall diameter mm	15.9	17.0	22.7	25.3	32.0	32.4
Max. overall diameter mm	17.3	18.6	24.4	27.3	34.0	34.8
Min. bending radius mm	156	168	220	246	306	314
Approx. cable weight kg/km	570	680	1250	1580	2350	2550
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	2.0	2.2	2.2	2.3	2.4	2.6
Min. overall diameter mm	36.2	43.6	44.7	47.3	52.5	58.8
Max. overall diameter mm	38.6	46.2	47.3	50.1	55.3	62.0
Min. bending radius mm	348	416	426	451	498	558
Approx. cable weight kg/km	3280	4680	4950	5620	6590	8800
Copper weight kg/km	550	780	870	1070	1390	1760

CERTIFICATIONS



TEBAOFLEX CABLE