



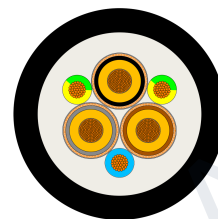
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 115 TYPE 16 MINING CABLE

EPR insulated, screened phase cores, non-armoured cable



APPLICATION

Cable for excavating, crushing and similar machines. Suitable for deep mines where explosive gases and dust can accumulate, and for surface use.

KEY FEATURES

Parameter	Value
Rated voltage	660/1100 V
Test voltage	2.5 kV
Conductor	Stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Phase-core screen	Tinned copper / nylon braid
Pilot and earth cores	Unscreened

CABLE DESIGN

Parameter	Value
Lay-up	All phase cores laid up in contact; two earth cores and one pilot core lie in between
Separator	Colored textile tape for core identification
Bedding	Rubber-based bedding compound
Outer sheath	Heavy-duty chloroprene compound
Related standard	MGM 115/1985
Core arrangement	3 screened phase cores + 2 unscreened earth cores + 1 unscreened pilot core

TECHNICAL DATA

MGM 115 - TYPE 16					
Cable type	3x25+3x10	3x35+3x10	3x50+3x16	3x70+3x25	3x95+3x35
Phase cores / cross-section mm ²	3x25	3x35	3x50	3x70	3x95
Phase stranding mm	196/0.40	276/0.40	396/0.40	360/0.50	475/0.50
Phase conductor diameter mm	6.75	8.00	9.75	11.60	12.75
Phase insulation thickness mm	1.6	1.6	1.7	1.8	2.0
Earth cores / cross-section mm ²	2x10	2x10	2x16	2x25	2x35
Earth stranding mm	80/0.40	80/0.40	126/0.40	196/0.40	276/0.40
Earth conductor diameter mm	4.40	4.40	5.50	6.75	8.00
Earth insulation thickness mm			1.0		
Pilot cores / cross-section mm ²	1x10	1x10	1x16	1x25	1x35
Pilot stranding mm	80/0.40	80/0.40	126/0.40	196/0.40	276/0.40
Pilot conductor diameter mm	4.40	4.40	5.50	6.75	8.00
Pilot insulation thickness mm			1.0		
Total screen cross-section mm ²	25.4	25.4	33	35	53
Min. overall diameter mm	36.5	39.5	43.9	49.6	58.2
Max. overall diameter mm	40.2	44.7	49.0	55.3	65.0
Min. bending radius mm	362	403	441	498	585
Outer sheath radial thickness mm	5.0	5.0	5.0	5.4	6.0
Max. pulling tension kgf	533	580	649	795	1039
Approx. cable weight kg/km	2770	3250	4200	5650	7350
Copper weight kg/km	1298	1666	2321	3276	4374
Continuous current rating at 25 °C A	110	135	170	205	250
Short-circuit current for 1 s A	3450	3450	4550	4820	7300
Phase and earth conductors ohm/km	0.795	0.565	0.393	0.277	0.21
Pilot conductor ohm/km	1.950	1.950	1.240	0.795	0.565
3 screens parallel ohm/km	1.10	1.20	1.40	0.70	0.85

CERTIFICATIONS



TEBAOFLEX CABLE