



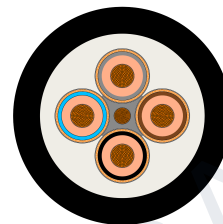
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 115 TYPE 7M MINING CABLE

EPR insulated, screened phase and pilot cores, non-armoured cable



APPLICATION

Cable for excavating, crushing machines and equipment. 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; ground core is not insulated
Screen	Tinned copper / nylon braid over phase and pilot cores
Earth core	Bare copper, unscreened

CABLE DESIGN

Parameter	Value
Lay-up	Three screened phase cores and one screened pilot core laid in contact with the bare earth conductor
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 + 1 screened pilot core + 1 bare copper earth core

TECHNICAL DATA

MGM 115 - TYPE 7M							
Cable type	3x16+16+16	3x25+16+25	3x35+18+35	3x50+25+50	3x70+35+70	3x95+50+95	3x120+50+120
Phase cores / cross-section mm2	3x16	3x25	3x35	3x50	3x70	3x95	3x120
Phase stranding mm	126/0.40	196/0.40	276/0.40	396/0.40	360/0.50	475/0.50	608/0.50
Phase conductor diameter mm	5.5	6.75	8	9.75	11.6	12.75	15.1
Phase insulation thickness mm	1.5	1.6	1.6	1.7	1.8	2	2.4
Earth core / cross-section mm2	1x16	1x16	1x18	1x25	1x35	1x50	1x50
Earth stranding mm	126/0.40	126/0.40	147/0.40	196/0.40	276/0.40	396/0.40	396/0.40
Earth conductor diameter mm	5.5	5.5	6	6.75	8	9.75	9.75
Pilot core / cross-section mm2	1x16	1x25	1x35	1x50	1x70	1x95	1x120
Pilot stranding mm	126/0.40	196/0.40	276/0.40	396/0.40	360/0.50	475/0.50	608/0.50
Pilot conductor diameter mm	5.5	6.75	8	9.75	11.6	12.75	15.1
Pilot insulation thickness mm	1.5	1.6	1.6	1.7	1.8	2.0	2.4
Continuous current rating at 25 C A	85	110	135	170	205	250	295
Intermittent current rating at 25 C A	96	125	150	200	250	310	355
Phase conductor ohm/km	1.24	0.795	0.565	0.393	0.277	0.21	0.164
Pilot conductor ohm/km	1.24	0.795	0.565	0.393	0.277	0.21	0.164
4 screens and earth in parallel ohm/km	0.61	0.40	0.35	0.29	0.18	0.16	0.15
Nom. reactance at 50 Hz ohm/km	0.109	0.107	0.101	0.098	0.095	0.094	0.092
Nom. reactance at 60 Hz ohm/km	0.131	0.128	0.121	0.118	0.114	0.113	0.11
Min. insulation resistance at 20 C Mohm/km	435	375	325	285	0.26	0.25	250
3-phase voltage drop at full load ohm/km	2.62	1.68	1.2	0.84	0.61	0.47	0.38

CERTIFICATIONS



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