



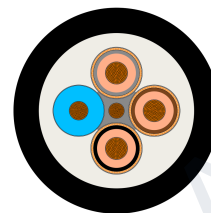
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 115 TYPE 7 MINING CABLE

EPR insulated, screened phase 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
Phase-core screen	Tinned copper / nylon braid
Pilot and earth cores	Pilot unscreened; earth core bare copper

CABLE DESIGN

Parameter	Value
Lay-up	All cores laid up in contact with the bare copper 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 unscreened pilot core + 1 bare copper earth core

TECHNICAL DATA

MGM 115 - TYPE 7							
Cable type	3x16+16+16	3x25+16+16	3x35+18+16	3x50+25+25	3x70+35+35	3x95+50+50	3x120+50+70
Phase cores / cross-section mm ²	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 mm ²	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 mm ²	1x16	1x16	1x16	1x25	1x35	1x50	1x70
Pilot stranding mm	126/0.40	126/0.40	126/0.40	196/0.40	276/0.40	396/0.40	360/0.50
Pilot conductor diameter mm	5.5	5.5	5.5	6.75	8	9.75	11.6
Pilot insulation thickness mm	1.5	1.5	1.5	1.6	1.6	1.7	1.7
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	1.24	1.24	0.795	0.565	0.393	0.277
3 screens and earth in parallel ohm/km	0.7	0.6	0.6	0.5	0.34	0.28	0.26
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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