



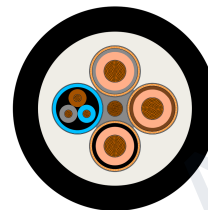
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

MGM 115 TYPE 7S 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 unit	Unscreened unit with three thinner cores

CABLE DESIGN

Parameter	Value
Lay-up	Three screened phase cores and one unscreened pilot unit 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 bare copper earth core + 3 unscreened pilot cores

TECHNICAL DATA

MGM 115 - TYPE 7S				
Cable type	3x50+25+3x4	3x70+35+3x6	3x95+50+3x6	3x120+50+3x10
Phase cores / cross-section mm ²	3x50	3x70	3x95	3x120
Phase stranding mm	396/0.40	360/0.50	475/0.50	608/0.50
Phase conductor diameter mm	9.75	11.60	12.75	15.10
Phase insulation thickness mm	1.7	1.8	2.0	2.4
Earth core / cross-section mm ²	1x25	1x35	1x50	1x50
Earth stranding mm	196/0.40	276/0.40	396/0.40	396/0.40
Earth conductor diameter mm	6.75	8.00	9.75	9.75
Pilot unit / cross-section mm ²	3x4	3x6	3x6	3x10
Pilot unit stranding mm	56/0.30	84/0.30	84/0.30	80/0.40
Pilot conductor diameter mm	2.60	3.50	3.50	4.40
Pilot insulation thickness mm	1.4	1.5	1.5	1.5
Min. overall diameter mm	48.5	55.1	62.4	68.0
Max. overall diameter mm	53.8	60.8	68.1	74.5
Min. bending radius mm	485	548	613	671
Max. pulling tension kgf	1120	1570	2000	2000
Approx. cable weight kg/km	4450	6080	6650	8300
Copper weight kg/km	2200	3150	4250	4800
Continuous current rating at 25 C A	170	205	250	295
Intermittent current rating at 25 C A	200	250	310	355
Phase conductor ohm/km	0.393	0.277	0.21	0.164
Pilot conductors ohm/km	5.47	3.6	3.6	2.09
3 screens and earth in parallel ohm/km	0.5	0.34	0.28	0.26
Nom. reactance at 50 Hz ohm/km	0.098	0.095	0.094	0.092
Nom. reactance at 60 Hz ohm/km	0.118	0.114	0.113	0.11
Min. insulation resistance at 20 C Mohm/km	285	260	250	250
3-phase voltage drop at full load mV/A/m	0.84	0.61	0.47	0.38

CERTIFICATIONS



TEBAOFLEX CABLE