



Heavy-duty rubber cables (NSSHÖU)

MGM 112 Type 201 / 211

Screened Armoured LV Mining Cable

660/1,100 V phase-screened pliable-wire-armoured LV mining cable (Type 201 & 211)



MGM 112 · BS 6708

U0/U 660/1,100 V

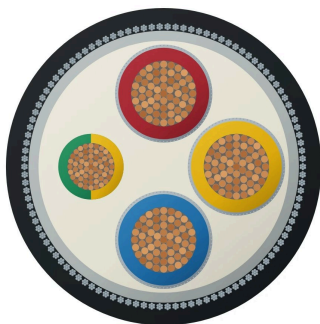
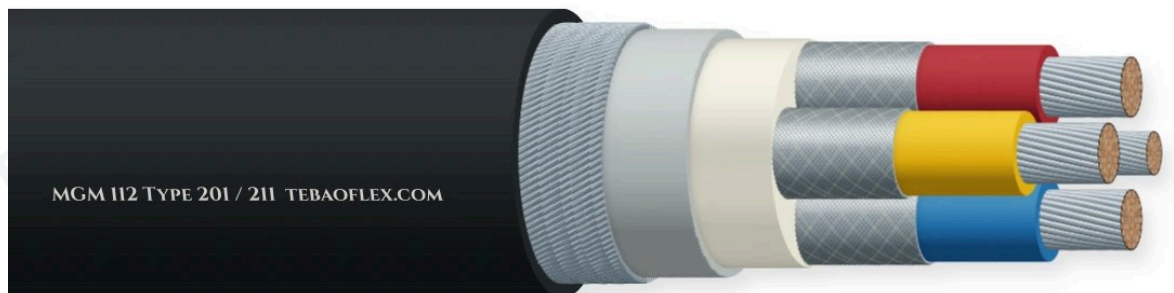
Cu/Nylon Screen · PWA

Application

Low-voltage 660/1,100 V underground mining cable to MGM 112 and BS 6708 in Type 201 (3 screened phase cores) and Type 211 (3 screened phase cores + 1 unscreened earth core) with GP8 EPR insulation, copper/nylon phase screens, steel PWA and PCP sheath.

Typical uses: Underground coal & methane-risk mines, 1.1 kV longwall gate-end distribution, Armoured face conveyors & crushers, Underground booster fans & pump skids, Hard-rock, potash & trona mining

Construction



Cross-section, not to scale

1	Tinned copper conductor	IEC 60228 Class 5
2	EPR core insulation	BS 7655-1.2 GP8 / MGM 112
3	Individual phase screen	MGM 112 / BS 6708 Type 201 & 211
4	Elastomeric cradle center	MGM 112 / BS 6708
5	Elastomeric inner bedding	MGM 112 inner bedding
6	Pliable wire armour (PWA)	MGM 112 / BS 6708 PWA
7	Heavy-duty PCP outer sheath	BS 7655-2.1 / IEC 60332-1-2

Technical data

Typical values

Rated voltage U0/U	660/1,100 V (640/1,100 V AC · 1.1 kV mining system)	AC test voltage	3000 V AC (50 Hz, 5 min)
Conductor stranding	IEC 60228 / BS EN 60228 Class 5 tinned copper	Phase core screening	Individual tinned-copper/nylon braid over each of the 3 phase cores
Earth fault conductance	Combined phase screens + PWA (plus internal earth core in Type 211)	Max. conductor temperature	+90 °C continuous operation
Short-circuit temperature	+250 °C max. (up to 5 s)	Temperature, flexing	−25 °C to +80 °C
Temperature, fixed	−40 °C to +80 °C	Min. bending radius, fixed	6 × overall diameter
Min. bending radius, moving	8 × overall diameter	Armour construction	Galvanised steel pliable wire armour (PWA) in multi-wire strands
Mechanical impact class	Extra-heavy underground roadway & longwall face duty	Flame retardance	IEC 60332-1-2 / BS EN 60332-1-2 underground mine flame test
Oil & hydraulic emulsion	EN 60811-404 mineral oil, grease & hydraulic fluid resistant	Mine water & humidity	Resistant to wet coal-mine roadways, sludge and grease
Abrasion & tear	Heavy-duty RS4/EM2 polychloroprene outer sheath	Standards	TTK MGM 112 (Type 201 & Type 211) / BS 6708 Type 201 & 211
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

15 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
MGM 112 Type 201 — 3 Screened Phase Cores + Pliable Wire Armour (660/1,100 V) 7 sizes							
☐ MGM 112 Type 201 3×6	3×6	10	22.5	24.5	240	1,020	147
☐ MGM 112 Type 201 3×10	3×10	8	25.4	27.6	360	1,340	166
☐ MGM 112 Type 201 3×16	3×16	6	28.3	30.8	540	1,740	185
☐ MGM 112 Type 201 3×25	3×25	4	32.0	34.8	810	2,290	209
☐ MGM 112 Type 201 3×35	3×35	2	35.0	38.0	1,100	2,820	228
☐ MGM 112 Type 201 3×50	3×50	1	38.8	42.2	1,540	3,580	253
☐ MGM 112 Type 201 3×70	3×70	2/0	43.1	46.8	2,120	4,560	281
MGM 112 Type 211 — 3 Screened Phase Cores + 1 Earth Core + Pliable Wire Armour (660/1,100 V) 8 sizes							
☐ MGM 112 Type 211 3×16+1×16	3×16+1×16	6	30.7	33.4	690	2,060	200
☐ MGM 112 Type 211 3×25+1×16	3×25+1×16	4	34.2	37.2	960	2,640	223
☐ MGM 112 Type 211 3×35+1×25	3×35+1×25	2	37.5	40.8	1,340	3,290	245
☐ MGM 112 Type 211 3×50+1×25	3×50+1×25	1	41.6	45.2	1,780	4,120	271
☐ MGM 112 Type 211 3×70+1×35	3×70+1×35	2/0	46.0	50.0	2,460	5,210	300
☐ MGM 112 Type 211 3×95+1×50	3×95+1×50	3/0	51.0	55.4	3,350	6,540	332
☐ MGM 112 Type 211 3×120+1×70	3×120+1×70	4/0	55.2	60.0	4,280	7,890	360
☐ MGM 112 Type 211 3×150+1×95	3×150+1×95	300 kcmil	59.6	64.8	5,400	9,450	389

– Dimensions and weights are typical values per MGM 112 / BS 6708 Type 201 & 211. Minimum fixed bending radius shown is 6 × OD.

Electrical & current ratings

10 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
6	10	3.39	53	44
10	8	1.95	74	61
16	6	1.24	99	82
25	4	0.795	131	108
35	2	0.565	162	135
50	1	0.393	202	168
70	2/0	0.277	250	207
95	3/0	0.21	301	250
120	4/0	0.164	352	292
150	300 kcmil	0.132	404	335

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

✓ MGM 112 / BS 6708 Type 201 & 211

✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/mgm-112-screened-armoured-lv-mining-cable



Typical values for this cable type, based on MGM 112 / BS 6708 Type 201 & 211. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.