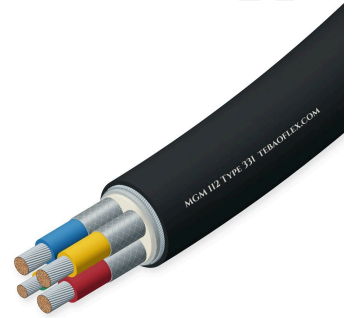




Heavy-duty rubber cables (NSSHÖU)

MGM 112 Type 331 Cable

1.9/3.3 kV 4-core (3 screened + 1 earth) pliable-wire-armoured MV mining cable



MGM 112 · BS 6708 Type 331

U0/U 1.9/3.3 kV

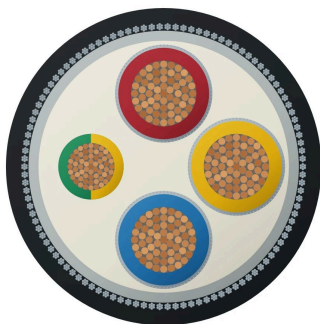
3 Screened + 1 Earth · PWA

Application

Medium-voltage 1.9/3.3 kV 4-core underground mining feeder cable to MGM 112 and BS 6708 Type 331 featuring three individually copper/nylon-screened EPR phase cores plus one unscreened earth core around a rubber cradle, inner bedding, steel PWA and PCP sheath.

Typical uses: 3.3 kV underground coal & longwall mines, Flameproof transformer & gate-end links, Armoured face conveyor (AFC) drives, Subterranean haulage & pump stations, Potash, trona & hard-rock mining

Construction



Cross-section, not to scale

1	Tinned copper conductor	IEC 60228 Class 5
2	MV EPR core insulation	BS 7655-1.2 GP8 / MGM 112
3	Individual phase screen	MGM 112 / BS 6708 Type 331
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 U ₀ /U	1.9/3.3 kV (1,900/3,300 V AC · U _m 3.6 kV)	AC test voltage	7.5 kV 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
Protective earth path	1 dedicated unscreened copper earth core + 3 phase screens + steel PWA	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
Impact & crush duty	Extra-heavy underground roadway & rock-fall 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	Water & mine dampness	Resistant to wet coal-mine roadways, sludge and grease
Abrasion & tear	Heavy-duty RS4/EM2 polychloroprene outer sheath	Standards	TTK MGM 112 Type 331 / BS 6708 Type 331
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

9 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 331 — 3 Screened Phase + Equal Earth Core (16–25 mm ² , 1.9/3.3 kV) 2 sizes							
☐ MGM 112 Type 331 3×16+1×16	3×16+1×16	6	35.0	38.0	730	2,450	228
☐ MGM 112 Type 331 3×25+1×25	3×25+1×25	4	38.8	42.2	1,086	3,120	253
MGM 112 Type 331 — 3 Screened Phase + Reduced Earth Core (25–150 mm ² , 1.9/3.3 kV) 7 sizes							
☐ MGM 112 Type 331 3×25+1×16	3×25+1×16	4	38.5	41.8	1,000	3,040	251
☐ MGM 112 Type 331 3×35+1×25	3×35+1×25	2	41.8	45.4	1,380	3,720	272
☐ MGM 112 Type 331 3×50+1×25	3×50+1×25	1	46.0	50.0	1,830	4,590	300
☐ MGM 112 Type 331 3×70+1×35	3×70+1×35	2/0	50.4	54.8	2,520	5,740	329
☐ MGM 112 Type 331 3×95+1×50	3×95+1×50	3/0	55.4	60.2	3,420	7,120	361
☐ MGM 112 Type 331 3×120+1×70	3×120+1×70	4/0	59.6	64.8	4,360	8,490	389
☐ MGM 112 Type 331 3×150+1×95	3×150+1×95	300 kcmil	63.9	69.5	5,490	10,120	417

– Dimensions and weights are typical values per MGM 112 / BS 6708 Type 331. Minimum fixed bending radius shown is 6 × OD.

Electrical & current ratings

8 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
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

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
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 331
- ✓ 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/mgm-112-type-331-cable



Typical values for this cable type, based on MGM 112 / BS 6708 Type 331. Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.