MGM 111 / BS 6708 Type 620 pliable-armoured MV cable

MGM 111 Type 620

3.8/6.6 kV Pliable-Armoured Mining Cable



MGM 111 / BS 6708 Type 620 · 3.8/6.6 kV · Pliable steel-armoured mining trailing cable

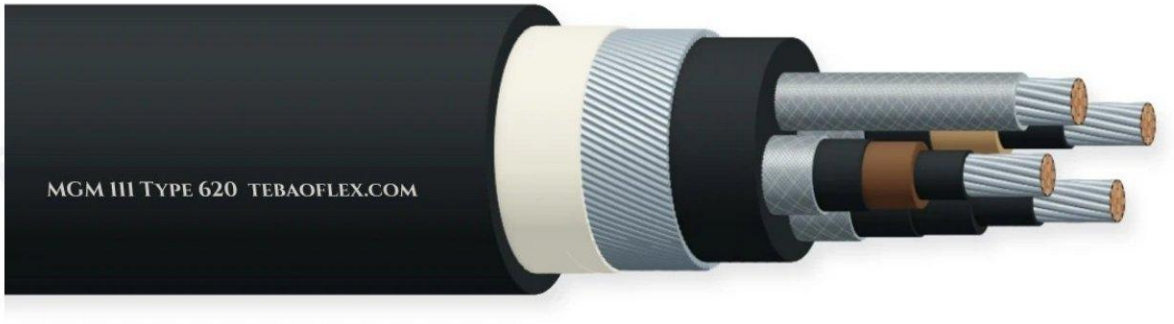
MGM 111 / BS 6708 T620 | 3.8/6.6 kV EPR | 7/0.9 mm Pliable SWA

Application

MGM 111 Type 620 3.8/6.6 kV individually braid-screened and pliable galvanized-steel-armoured medium-voltage mining cable per MGM 111 and BS 6708 Type 620, built for mobile underground substations, roadway switchgear and heavy quarry feeders.

Typical uses: Underground Coal & Hard-Rock Mining, Open-Cast Excavators, Draglines & Shovels, Vertical Mine Shafts, Hoists & Boreholes, Tunneling, Mineral Processing & Slurry Plants

Construction





Cross-section, not to scale

1. Phase Conductors (3×50 mm²)
2. EPR Insulation & Composite Braid
3. Earth Conductor (1×25 mm²)
4. Black Bedding & Pliable Steel Armour
5. Separator Tape & PCP Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	3.8/6.6 kV (MGM 111 / BS 6708 Type 620 / IEC 60228)	**Core / conductor construction**	Phase Conductors (3×50 mm²) — IEC 60228 Class 5 flexible tinned copper + semicon conductor screen
Primary dielectric / buffering	EPR Insulation & Composite Braid — 5.0 mm EPR + semicon layer + tinned copper/nylon braid screen	**Continuous operating temperature**	-25 to +90 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per MGM 111 / BS 6708 Type 620 / IEC 60228	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	Separator Tape & PCP Outer Sheath — Water-blocking separator tape + black heavy-duty PCP outer jacket	**Minimum bending radius**	10 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per MGM 111 / BS 6708 Type 620 / IEC 60228	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per MGM 111 / BS 6708 Type 620 / IEC 60228
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per MGM 111 / BS 6708 Type 620 / IEC 60228	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	MGM 111 / BS 6708 Type 620 / IEC 60228		

Sizes

3 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
MGM 111 Type 620 Construction Schedule (-25 to +90 °C) 3 sizes						
☐ **MGM 111 Type 620 3×35 + 1×16 mm²**	**3 × 35 mm² + 1 × 16 mm² (E)**	**Class 5 tinned Cu**	**54.0**	**4,620**	**28.0**	**540**
☐ **MGM 111 Type 620 3×50 + 1×25 mm²**	**3 × 50 mm² + 1 × 25 mm² (E)**	**Class 5 tinned Cu**	**58.6**	**5,580**	**36.0**	**585**
☐ **MGM 111 Type 620 3×95 + 1×35 mm²**	**3 × 95 mm² + 1 × 35 mm² (E)**	**Class 5 tinned Cu**	**69.4**	**8,190**	**55.0**	**695**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per MGM 111 / BS 6708 Type 620 / IEC 60228.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 35 mm² + 1 × 16 mm² (E)	**0.56**	**3.8/6.6 kV (155 A)**	**-25 to +90 °C**
3 × 50 mm² + 1 × 25 mm² (E)	**0.39**	**3.8/6.6 kV (190 A)**	**-25 to +90 °C**
3 × 95 mm² + 1 × 35 mm² (E)	**0.21**	**3.8/6.6 kV (280 A)**	**-25 to +90 °C**

– Every production length undergoes routine conductor DC resistance, high-voltage Spark/AC dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- BS 6708 T620 Compliant
- EN 10204 3.1 Factory Test Certificate
- 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-111-type-620-3-8-6-6kv-pliable-steel-armoured-mining-trailing-cable

Typical values for this cable type, based on MGM 111 / BS 6708 Type 620 / IEC 60228. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.