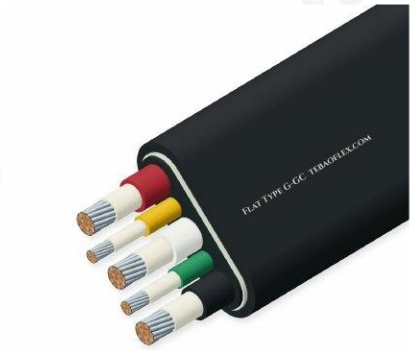
ICEA/NEMA MSHA flat shuttle car mining cable

Flat Type G-GC

2000 V MSHA Shuttle Car Mining Cable

ICEA S-75-381 / NEMA WC 58 · 2000 V · Flat MSHA shuttle car portable power cable

ICEA S-75-381 / MSHA | **2000 V Flat 3/C+G+GC** | **Shuttle Car Spooling**



Application

Flat Type G-GC 2000 V ICEA S-75-381 / NEMA WC 58 MSHA-approved flat portable mining power cable for AC shuttle cars and continuous miners, with 3 rope-lay tinned copper phases, green EPR ground (G), yellow ground-check (GC) and EHD CPE jacket.

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. Parallel Power Cores (3×2 AWG)
2. Grounding Conductor (1×5 AWG G)
3. Ground-Check Conductor (1×8 AWG GC)
4. Inner Jacket & Assembly Braid
5. Flat Outer Jacket (EHD CPE)

Technical data

Typical values

Rated voltage / transmission duty	2000 V (ICEA S-75-381 / NEMA WC 58 / MSHA)	**Core / conductor construction**	Parallel Power Cores (3×2 AWG) — Rope-lay tinned copper (259 wires) + separator tape + Black, White & Red EPR
Primary dielectric / buffering	Grounding Conductor (1×5 AWG G) — Flexible tinned copper (168 wires) with green EPR insulation between Black & White	**Continuous operating temperature**	-40 to +90 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per ICEA S-75-381 / NEMA WC 58 / MSHA	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Flat Outer Jacket (EHD CPE) — Extra-heavy-duty mold-cured black crosslinked CPE flat jacket	**Minimum bending radius**	6 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per ICEA S-75-381 / NEMA WC 58 / MSHA	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per ICEA S-75-381 / NEMA WC 58 / MSHA
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per ICEA S-75-381 / NEMA WC 58 / MSHA	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ICEA S-75-381 / NEMA WC 58 / MSHA		

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
Flat Type G-GC Construction Schedule (-40 to +90 °C) 3 sizes						
☐ Flat Type G-GC 3×4 AWG + 6G + 8GC	3×4 AWG + 1×6 (G) + 1×8 (GC)	259-wire tinned Cu	44.5	2,260	12.6	265
☐ Flat Type G-GC 3×2 AWG + 5G + 8GC	3×2 AWG + 1×5 (G) + 1×8 (GC)	259-wire tinned Cu	49.5	2,980	20.1	295
☐ Flat Type G-GC 3×1/0 AWG + 3G + 8GC	3×1/0 AWG + 1×3 (G) + 1×8 (GC)	259-wire tinned Cu	58.4	4,250	32.0	350

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per ICEA S-75-381 / NEMA WC 58 / MSHA.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3×4 AWG + 1×6 (G) + 1×8 (GC)	0.86	2000 V (122 A)	-40 to +90 °C
3×2 AWG + 1×5 (G) + 1×8 (GC)	0.55	2000 V (159 A)	-40 to +90 °C
3×1/0 AWG + 1×3 (G) + 1×8 (GC)	0.34	2000 V (211 A)	-40 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

- ICEA S-75-381 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/flat-type-g-gc-2000v-msha-shuttle-car-flat-mining-portable-power-cable

Typical values for this cable type, based on ICEA S-75-381 / NEMA WC 58 / MSHA. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.