2000 V symmetrical-ground central-GC mining cable

TYPE G-CGC

2000 V Central-GC Mining Trailing Cable

ICEA S-75-381 / NEMA WC 58 · 2000 V · −40...+90 °C 3/C + 3G + central GC mining cable

2000 V Type G-CGC | Central GC + 3×G | ICEA S-75-381



Application

TYPE G-CGC 2000 V unshielded mining trailing cable combining a central extensible yellow PP ground-check conductor, three rope-lay tinned copper EPR phase conductors, three symmetrical green grounds and a two-layer reinforced black CPE jacket.

Typical uses: Underground Coal & Hard-Rock Continuous Miners, Shuttle Cars, Roof Bolters, Feeder Breakers & Loaders, Mobile Mine Power Centers & Portable Substations, Quarry, Tunnel & Surface Mine Portable Distribution

Construction





Cross-section, not to scale

1	Central Extensible Ground-Check	ICEA S-75-381 / NEMA WC 58
2	Phase Conductors (3xTinned Cu)	ICEA S-75-381 / NEMA WC 58
3	Three Symmetrical Grounds	ICEA S-75-381 / NEMA WC 58
4	Two-Layer Reinforced CPE Jacket	ICEA S-75-381 / NEMA WC 58

Technical data

Typical values

Rated voltage / transmission duty	2000 V (ICEA S-75-381 / NEMA WC 58)	**Core / conductor construction**	Central Extensible Ground-Check — Stretch-resistant stranded tinned copper ground-check conductor insulated with high-strength yellow polypropylene positioned at the neutral center axis
Primary dielectric / insulation	Phase Conductors (3xTinned Cu) — Three flexible rope-lay stranded annealed tinned copper phase conductors with heavy-duty 2000 V EPR insulation (Black, White, Red)	**Continuous operating temperature**	−40…+90 °C (rated operating envelope)
Storage & transport temperature	−40…+80 °C on export drum or reel	**Outer protection / sheath**	Two-Layer Reinforced CPE Jacket — Extra-heavy-duty two-layer black thermoset chlorinated polyethylene (CPE) jacket reinforced with an embedded high-tenacity textile cord braid
Minimum bending radius	6 × OD	**Structural layer count**	4 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per ICEA S-75-381 / NEMA WC 58	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ICEA S-75-381 / NEMA WC 58		

Sizes

5 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	Weight ≈ kg/km	Tensile load kN ≈	Min. bend R mm
TYPE G-CGC Construction Schedule (−40…+90 °C) 5 sizes						
☐ TYPE G-CGC 2000 V 3×4 AWG + 3×8G + 1×10 GC	3×4 AWG + 3×8 AWG G + 1×10 GC	Rope-lay tinned Cu + reinforced CPE	32.5	1,590	14.5	195
☐ TYPE G-CGC 2000 V 3×2 AWG + 3×7G + 1×10 GC	3×2 AWG + 3×7 AWG G + 1×10 GC	Rope-lay tinned Cu + reinforced CPE	36.8	2,180	21.0	220
☐ TYPE G-CGC 2000 V 3×1/0 AWG + 3×5G + 1×8 GC	3×1/0 AWG + 3×5 AWG G + 1×8 GC	Rope-lay tinned Cu + reinforced CPE	44.2	3,290	33.0	265
☐ TYPE G-CGC 2000 V 3×2/0 AWG + 3×4G + 1×8 GC	3×2/0 AWG + 3×4 AWG G + 1×8 GC	Rope-lay tinned Cu + reinforced CPE	48.0	3,980	41.5	290
☐ TYPE G-CGC 2000 V 3×4/0 AWG + 3×2G + 1×8 GC	3×4/0 AWG + 3×2 AWG G + 1×8 GC	Rope-lay tinned Cu + reinforced CPE	55.4	5,640	62.0	335

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per ICEA S-75-381 / NEMA WC 58.

Electrical, optical & thermal parameters

5 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
3×4 AWG + 3×8G + 1×10 GC	0.85	2000 V / 122 A	−40…+90 °C
3×2 AWG + 3×7G + 1×10 GC	0.53	2000 V / 159 A	−40…+90 °C
3×1/0 AWG + 3×5G + 1×8 GC	0.34	2000 V / 211 A	−40…+90 °C
3×2/0 AWG + 3×4G + 1×8 GC	0.27	2000 V / 243 A	−40…+90 °C
3×4/0 AWG + 3×2G + 1×8 GC	0.17	2000 V / 321 A	−40…+90 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric 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/type-g-cgc-2000v-symmetrical-ground-central-gc-mining-trailing-cable

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