



SHD-GC EPR/TPU Mining Cable

Three Conductors Round Portable Power Cable - 2kV



Product Overview

The SHD-GC series represents a premium-grade mining cable designed specifically for heavy-duty applications in underground and open-pit mining environments. This cable features EPR insulation rated at 90°C with a robust TPU jacket system, incorporating reflective safety tape for enhanced visibility and worker protection.

Cable Construction

- 1. Conductor:** Flexible annealed plain bare copper conductors (Tinned copper option available for corrosive environments)
- 2. Conductor Shield:** Extruded semi-conductive conductor shielding
- 3. Insulation:** EPR (Ethylene-Propylene Rubber), natural color, 90°C rated
- 4. Insulation Shield:** Extruded semi-conductive insulation shielding
- 5. Phase Identification:** Combination annealed tinned copper and colored textile braid shield over individual phase conductors (Black-Red-White per ICEA / Black-Red-Blue per CSA)
- 6. Grounding Conductors:** Two flexible annealed plain bare copper grounding conductors
- 7. Mylar Tape:** Protective barrier layer
- 8. Ground-Check Conductor:** Yellow EPR insulated monitoring conductor (6 AWG)
- 9. Ground Wires:** Stranded annealed uninsulated plain bare copper (2 × 1/0 AWG)
- 10. Binder Tape:** Rubber-faced binding layer
- 11. Inner Jacket:** TPU (Thermoplastic Polyurethane) - customizable colors
- 12. Reflective Tape:** Helically applied high-visibility safety tape

Purpose & Application

Designed for mining equipment power distribution systems requiring maximum reliability and durability in demanding underground and surface mining operations. Suitable for mobile equipment, draglines, shovels, and other heavy-duty mining machinery.

Outstanding Properties

✓ High reliability and durability	✓ Low moisture absorption	✓ Excellent flexibility with stranded conductors
✓ Superior acid resistance	✓ Excellent alkaline substance resistance	✓ High temperature resistance
✓ Outstanding mechanical abuse resistance	✓ Exceptional abrasion resistance	✓ Excellent moisture resistance
✓ Superior flame propagation resistance	✓ High tensile strength	✓ Excellent sunlight (UV) resistance
✓ Superior oil resistance	✓ Outstanding compression resistance	✓ Excellent ozone resistance
✓ Exceptional tear strength	✓ Enhanced personnel safety features	

Special Safety Features

Ground-Check Monitoring System: The integrated ground-check conductor enables continuous real-time monitoring of grounding system integrity, providing maximum protection for workers by detecting ground faults before they become hazardous.

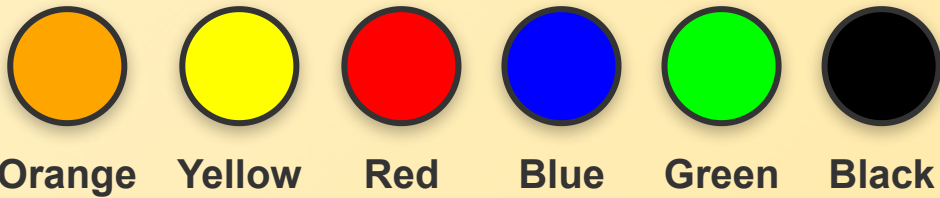
Seguriflex™ Reflective Technology: Helically applied reflective tape allows instant cable identification when illuminated by mining helmet lamps, significantly reducing the risk of cable damage from mobile equipment and preventing electrical interruptions or worker injuries.

Extra Heavy Duty (EHD) TPU Jacket: Superior compound exceeds ICEA Standard S-75-381 requirements for tensile strength, elongation, abrasion resistance, and tear resistance. Provides

exceptional performance against continuous winding/unwinding, dragging, flattening, and mechanical abuse.

 CUSTOM JACKET COLOR OPTIONS AVAILABLE

The outer TPU jacket can be customized to customer specifications in high-visibility colors for enhanced safety and identification:



Other custom colors available upon request to meet specific site safety requirements

Technical Standards & Certifications

ICEA S-75-381

MSHA Approved

ISO 9001:2008

UL Certified

Operating Parameters:

Rated Voltage:	2 kV / 5 kV / 8 kV / 15 kV / 25 kV
Normal Operating Temperature:	90°C
Emergency Overload Temperature:	130°C
Short-Circuit Temperature:	250°C
Installation Type:	Portable, visible (on the ground), indoor/outdoor

Technical Specifications - 2kV Series

Product Number	Voltage (V)	Conductor Size (AWG/kcmil)	Power Conductor Area (mm²)	Conductor Diameter (mm)	Insulation Thickness (mm)	Insulation Diameter (mm)	Grounding Conductor Size	Grounding Area (mm²)	Ground Check Size (AWG)	Ground Check Diameter (mm)	Overall Diameter (mm)	Weight (lb/1000 ft)	Inner Jacket Color
17021200BA	2000	3	30	4.91	1.77	8.74	2×10	5.26	10	2.96	31.75	995.8	Yellow
17021200CA	2000	4	21.15	6.20	1.77	10.02	2×8	8.37	10	2.96	34.52	1,262.2	Yellow
17021200DA	2000	3	26.67	6.74	1.77	10.55	2×7	10.55	10	2.96	36.90	1,511.6	Yellow
17021200BA	2000	2	33.62	7.48	1.77	11.30	2×6	13.30	10	2.96	38.82	1,727.1	Yellow
17021200AA	2000	1/0	53.50	9.44	2.03	13.76	2×4	21.15	8	3.73	45.26	2,504.7	Yellow
170212001A	2000	250	127.0	15.21	2.41	20.29	2×1/0	53.50	8	3.73	61.11	5,101.1	Yellow
170212002A	2000	300	152.0	16.57	2.41	21.65	2×1/0	53.50	8	3.73	65.25	5,770.8	Yellow
170212003A	2000	350	177.0	17.87	2.41	22.94	2×2/0	67.40	8	3.73	68.37	6,556.5	Yellow

Product Number	Voltage (V)	Conductor Size (AWG/kcmil)	Power Conductor Area (mm²)	Conductor Diameter (mm)	Insulation Thickness (mm)	Insulation Diameter (mm)	Grounding Conductor Size	Grounding Area (mm²)	Ground Check Size (AWG)	Ground Check Diameter (mm)	Overall Diameter (mm)	Weight (lb/1000 ft)	Inner Jacket Color
170212004A	2000	500	253.0	21.38	2.41	26.44	2×4/0	107.0	8	3.73	77.00	9,017.7	Yellow

Note: Highlighted row (170212001A) represents the featured 3×250 MCM + 2×1/0 AWG + 1×6 AWG configuration. Additional voltage ratings (5kV, 8kV, 15kV, 25kV) and configurations available upon request.

Ordering Information

When placing an order, please specify the following:

- 1. Cable type: SHD-GC (Seguriflex™)
- 2. Voltage rating (2kV, 5kV, 8kV, 15kV, or 25kV)
- 3. Conductor configuration (e.g., 3×250 MCM + 2×1/0 AWG + 1×6 AWG)
- 4. Inner jacket color preference (Yellow, Orange, Red, Blue, Black, etc.)
- 5. Outer jacket color preference (if customization required)
- 6. Reflective tape color (Yellow, Orange, or White)
- 7. Cable length required (in feet or meters)
- 8. Product number (if known)
- 9. Any special requirements or certifications needed

Quality Assurance: All cables are manufactured under strict ISO 9001:2008 quality management system, certified by Underwriters Laboratories (UL). Each production batch undergoes comprehensive testing including voltage withstand, insulation resistance, conductor resistance, and mechanical properties verification to ensure consistent performance and reliability.

FEICHUN SPECIAL CABLES



Website Address www.reelingcable.com www.feichuncables.com
Whatsapp Account + 86 13855123218
Email Address Zihao.yang@feichuncables.com & Ziyu.huang@feichuncables.com