

# SHD-GC Mining Cable (Heavy Duty Shielded with Ground Check, 2kV-25kV)

Farwalk's SHD-GC Mining Cables are the impenetrable power veins of the subterranean world. Engineered for the absolute maximum mechanical stress of surface and underground mining, these cables combine flexible copper shielding with an integrated Ground Check (GC) conductor, ensuring both relentless power delivery and fail-safe personnel protection in the presence of continuous movement and abrasion.



## Applications

The definitive choice for heavy mining equipment including electric shovels, draglines, continuous miners, and massive drills. Specifically designed for applications where cable integrity must be monitored in real-time to prevent catastrophic ground-fault hazards in damp, high-vibration mining environments.

## Description

Manufactured to meet or exceed ICEA S-75-381 / NEMA WC 58 and CAN/CSA-C22.2 No. 96 standards. The internal assembly features Class 5 or Class 6 fine-stranded tinned copper conductors, insulated with Ethylene Propylene Rubber (EPR). Each core is individually shielded with a tinned copper braid. The system is fortified by a reinforced double-pass Chlorinated Polyethylene (CPE) or Neoprene jacket.

## Specifications

- **Voltage Rating: 2kV, 5kV, 8kV, 15kV, 25kV**
- **Core Construction: 3 Conductors + 2 Grounds + 1 Ground Check**
- **Insulation: 90°C EPR (Heavy Duty)**
- **Shielding: Individually Shielded (Braid or Tape)**
- **Jacket: Heavy-duty CPE or Neoprene (Oil, UV, Flame Resistant)**
- **Temp. Range: -40°C to +90°C**

# Farwalk Cable — SHD-GC Mining Cable

## Complete Technical Tables

### SHD-GC Shielded Mining Cable (5kV Rated)

Size (AWG / kcmil)	Approx. OD (mm)	Approx. Weight (kg/km)	Current Rating @ 90° C (Amps)	Min. Bending Radius (mm)	Max. Cond. Resistance (Ω/km)
<b>3-Core SHD-GC - 5000 Volts (Individually Shielded)</b>					
4 AWG	38.5	2350	95	235	0.85
2 AWG	43.2	3150	130	260	0.54
1/0 AWG	52.5	4650	175	315	0.34
2/0 AWG	56.8	5480	200	345	0.27
4/0 AWG	63.5	7350	260	385	0.17
250 kcmil	68.2	8550	295	415	0.14
500 kcmil	85.5	14850	475	515	0.07