

# Mining Trailing Cable — Type SHD & SHD-GC

Shielded High-Flex Trailing | Longwall · Continuous Miners · Roof Bolters | MSHA Approved

## PRODUCT OVERVIEW

Mirabel Energy USA Type SHD and SHD-GC shielded high-flex trailing cables are the industry standard for powering continuous-motion underground coal and hard rock mining equipment — including longwall shearers, continuous miners, roof bolters, and feeder-breakers — where the cable is in constant motion, subject to repeated coiling and uncoiling, and must maintain dielectric integrity and ground circuit continuity under the most severe mechanical conditions in industry. The shielded construction (SHD) provides a copper tape or drain wire shield over each phase conductor for ground fault detection capability, while Type SHD-GC adds a dedicated ground check conductor that allows continuous online monitoring of the equipment grounding circuit. Under MSHA 30 CFR Part 18, ground check monitoring is mandatory for underground coal mining trailing cables — making SHD-GC the required construction for compliant longwall and continuous miner installations. Conductor assemblies use finely stranded, rope-lay copper for maximum flexibility and fatigue resistance through millions of flex cycles.

<b>Up to 25kV</b> Voltage Rating	<b>Continuous Flex</b> Duty Cycle	<b>MSHA 30 CFR 18</b> Certification	<b>SHD-GC: Ground Check</b> Safety Feature
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## APPLICATIONS

- Longwall shearer and powered roof support trailing cable
- Continuous miner trailing cable — underground coal and hard rock
- Roof bolter and scoop tram power cable
- Feeder-breaker and section conveyor power supply cable
- Underground mine power center to equipment trailing connection
- Any MSHA-regulated underground equipment requiring ground monitoring

## KEY SPECIFICATIONS

- Type SHD: shielded, 2kV–25kV, continuous-flex trailing cable
- Type SHD-GC: adds integrated ground check conductor per MSHA 30 CFR 18
- Finely stranded rope-lay copper conductors — millions of flex cycles rated
- Individual phase shields: copper tape or drain wire, continuous ground path
- EPR insulation — maximum flexibility, rated -40°C to 90°C service
- CPE or CSPE jacket: oil/flame/abrasion resistant, MSHA flame test qualified
- Available 3-conductor + ground + GC configuration for complete MSHA compliance
- Armor or unarmored jacket options for varying mechanical protection needs

## TECHNICAL SPECIFICATIONS

Parameter	Type SHD	Type SHD-GC
Voltage Rating	2kV – 25kV	2kV – 25kV
Phase Shields	Cu tape or drain wire	Cu tape or drain wire
Ground Check Cond.	No	Yes (MSHA req'd)
Conductor Stranding	Rope-lay (high flex)	Rope-lay (high flex)
Insulation	EPR	EPR
Jacket	CPE / CSPE	CPE / CSPE
Certification	MSHA / UL 62	MSHA / UL 62

<b>CONDUCTOR SIZES &amp; CONFIGS</b> #4 AWG – 4/0 AWG   3/C + ground + optional GC   SHD and SHD-GC   MSHA approved	<b>STOCKING LOCATIONS</b> Reno, NV · Houston, TX Standard & project-phased delivery	<b>OEM REPRESENTATIVE</b> GCP Energy LLC — Salt Lake City, UT <a href="http://portal.gcpenergy.us">portal.gcpenergy.us</a>
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