

## 3/C CU 8KV Type SHD-GC RHINOSHIELD™

### CPE Mining Cable 90°C

Flexible Copper conductors, EPR 100% Insulation Level,  
Cu/Nylon Braid Shield, Two Layer Chlorinated Polyethylene  
(CPE) Jacket with Reflective Stripes



Cable image is for reference only and does not depict actual cable construction

## Applications:

RHINOSHIELD™ Type SHD-GC is a heavy-duty trailing cable where flexibility and maximum protection is required. For use with mobile, reeling, or stationary mining equipment, continuous mining machines, longwall mining systems, and blast hole drillers. It is also an excellent choice for shovels, draglines, dredges, cranes and marine shore-to-ship power supplies, and anytime extra-durable, flexible cable is required. Suitable for continuous submersion in water. Ground check conductor provides fail-safe ground monitoring. Embossed print legend for easy cable identification.

## Specifications:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire Soft or annealed copper
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- ICEA S-75-381 Portable and Power Feeder Cables for Use in Mines
- MSHA Approved

## Construction:

1. **Conductor:** Tin coated, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B33/B172.
2. **Separator Tape:** Semi-conducting tape applied between the conductor and insulation to facilitate stripping.
3. **Conductor Shield:** Semi-conducting cross-linked copolymer.
4. **Insulation:** Ethylene Propylene Rubber (EPR) 100% Insulation Level.
5. **Insulation Shield:** Semi-conducting cross-linked copolymer.
6. **Shield Separator:** Semi-conducting SBR tape applied to the phase insulation with a 50% overlap, adhesive side up.
7. **Braid Shield:** Tin coated, soft drawn, annealed, copper braid shield (60% minimum coverage), combined with color coded nylon (black, white, red) with a 40% maximum coverage.
8. **Ground Check Conductor:** Tin coated, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B33/B172 with yellow, high strength, polypropylene insulation.
9. **Ground Conductors:** Two uninsulated, tin coated, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B33/B172.
10. **Tape:** SBR tape applied over the cabled core for improved mechanical integrity and ease of stripping.
11. **Inner Jacket:** Black, mold cured, extra heavy-duty modified integral fill flame resistant, thermosetting Chlorinated Polyethylene.
12. **Reinforcement:** Reinforcing twine applied between the two jacket layers.
13. **Outer Jacket:** Orange, mold cured, extra heavy-duty, thermosetting Chlorinated Polyethylene (CPE).
14. **Reflective Stripe:** Highly visible reflective stripe embedded into the outer jacket to increase safety and help prevent cable run-over.

Date: 03/08/2021	Spec No.: 677502	Customer:	Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.  Signature _____ Date _____
Prepared by: UPR	Job Name:		

Southwire Company, LLC. | One Southwire Drive, Carrollton, GA 30119 | [www.southwire.com](http://www.southwire.com)

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 **Southwire**  
**CABLETECH**  
**SUPPORT™**  
[IWCableTechSupport@southwire.com](mailto:IWCableTechSupport@southwire.com)

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### Sample Print Legend:

SOUTHWIRE(R) RHINO(TM) BRAND CABLE 1/0 AWG 3/C TYPE SHD-GC 8000V 90C MASTER-DESIGN 07-KA140005-MSHA

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground Size	Ground Strands	Ground Check Size	Ground Check Strands	Ground Check Insulation Thickness	Minimum Average Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	inch	AWG	Diameter (inches)	AWG	No.	mil	mil	inch	lb/1000ft
677502	1 / 0	3	273	0.385	150	0.728	4	259	8	168	45	220	2.32	3474

All dimensions are nominal and subject to normal manufacturing tolerances

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