3/C CU 2KV Type SHD-GC RHINOSHIELD™ CPE Mining Cable 90°C. CSA - MSHA Approved

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

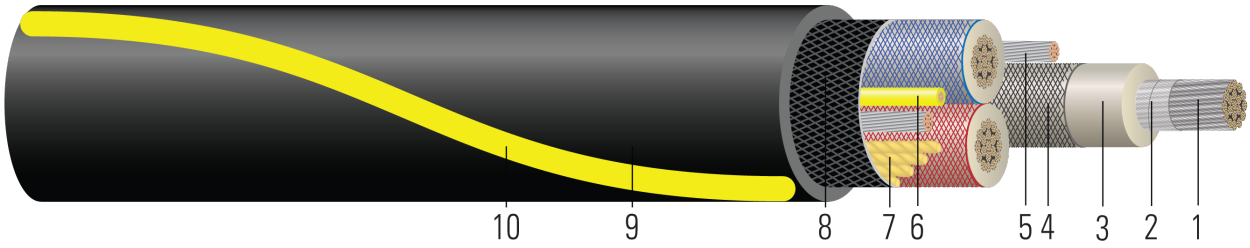


Image not to scale. See Table 1 for dimensions.

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. **Insulation:** Ethylene Propylene Rubber (EPR) 100% Insulation Level
4. **Braid Shield:** Tin coated, soft drawn, annealed, copper braid shield (60% minimum coverage), combined with color coded nylon (Black, Red, Blue) with a 40% maximum coverage
5. **Ground Conductors:** Two uninsulated, tin coated, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B33/B172
6. **Ground Check Conductor:** Tin coated, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B33/B172 with yellow, high strength, polypropylene insulation
7. **Filler:** Rubber fillers as needed
8. **Tape:** SBR tape applied over the cabled core for improved mechanical integrity and ease of stripping. Reinforcing twine applied between SBR tape and outer jacket
9. **Outer Jacket:** Black, mold cured, extra heavy-duty, flame resistant, thermosetting Chlorinated Polyethylene (CPE). Other colors available
10. **Reflective Stripe (Optional):** Highly visible reflective stripe embedded into the outer jacket to increase safety and help prevent cable runover.

APPLICATIONS AND FEATURES:

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 ex- cellent 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. Cold Bend and Impact Tested to -50°C.

SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- CSA C22.2 No. 96 Portable Power Cables

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- ICEA S-75-381 Portable and Power Feeder Cables for Use in Mines
- MSHA Approved

SAMPLE PRINT LEGEND:

SOUTHWIRE{R} RHINO{TM} BRAND CABLE XXX AWG CU 3/C EPR TYPE SHD-GC 2000V -50{D}C 90{D}C SR {CSA} LL90458 FT FT5 MASTER-DESIGN P-07-KA-140013-MSHA
Stock Number 584907: SOUTHWIRE{R} RHINO{TM} BRAND CABLE 2/0 AWG 3/C TYPE SHD-GC 2000V -50{D}C FT1 FT4 FT5 {CSA} LL90458 P-07-KA-140013 MSHA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground	Ground Check Size	Jacket Thickness	Approx. OD	Approx. Weight	Jacket Color
	AWG/ Kcmil	No.	No.	inch	mil	inch	No. x AWG	AWG	mil	inch	lb/1000ft	
569946	14	3	41	0.073	60	0.199	2 x 14	14	130	0.852	368	BK
TBA	12	3	65	0.094	70	0.235	2 x 12	12	155	0.950	492	BK
569654	10	3	104	0.117	60	0.24	2 x 12	12	155	1	554	BK
TBA	8	3	168	0.153	70	0.301	2 x 10	10	145	1.093	740	BK
590636	6	3	133	0.198	70	0.356	2 x 10	10	165	1.247	874	BK
TBA	4	3	259	0.235	70	0.400	2 x 8	8	185	1.366	1227	BK
646985	2	3	308	0.302	70	0.466	2 x 6	8	175	1.53	1776	BK
TBA	2	3	308	0.302	70	0.466	2 x 7	8	180	1.535	1743	BK
646989	1/0	3	273	0.354	80	0.557	2 x 4	8	285	1.836	2495	BK
586860	1	3	385	0.355	80	0.512	2 x 6	8	235	1.732	2249	BE
456331	2/0	3	324	0.4	80	0.594	2 x 4	8	165	1.951	2807	BK
138992	2/0	3	324	0.4	110	0.714	2 x 3	8	245	2.165	3113	BK
576360	3/0	3	418	0.533	80	0.672	2 x 2	8	150	2.126	3651	BK
665792	4/0	3	532	0.55	80	0.751	2 x 2	8	255	2.284	3870	BK
653617	250	3	608	0.682	95	0.806	2 x 1/0	6	205	2.48	4888	BK
579868	350	3	855	0.809	100	0.926	2 x 2/0	6	135	2.795	6204	BK
649320	500	3	1221	0.987	100	1.106	2 x 4/0	6	190	3.189	9022	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Working Tension	Min Bending Radius
AWG/Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	inch
14	2.621	3.311	0.045	28	6.8
12	1.774	2.241	0.043	44	7.6
10	1.04	1.314	0.038	70	8
8	0.715	0.903	0.037	112	8.7
6	0.450	0.568	0.035	179	9.9
4	0.282	0.356	0.034	285	10.9
2	0.167	0.211	0.032	453	12.2
2	0.179	0.226	0.032	453	12.2
1/0	0.105	0.132	0.032	722	14.6
1	0.143	0.180	0.031	572	13.8
2/0	0.084	0.106	0.031	910	15.6
2/0	0.084	0.106	0.035	910	17.3
3/0	0.072	0.091	0.027	1147	17.0
4/0	0.053	0.068	0.029	1447	18.2
250	0.045	0.058	0.026	1710	19.8
350	0.035	0.046	0.025	2394	22.3
500	0.024	0.034	0.024	3420	25.5

***** Ampacities based upon ICEA S-75-381 Table H-1.

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