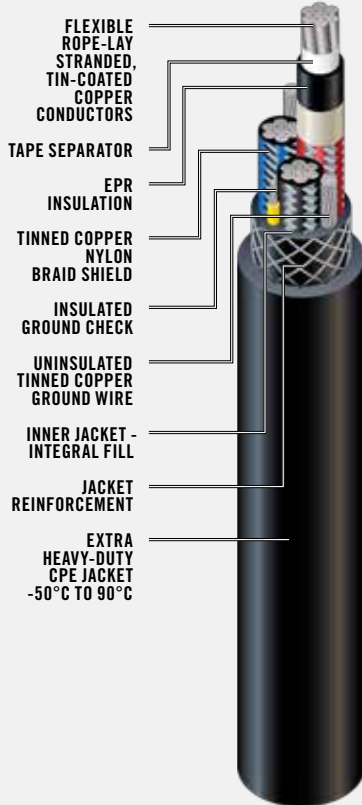


RHINO SHIELD™

TYPE SHD-GC 2 kV



END VIEW



APPLICATIONS SUITABLE FOR USE AS FOLLOWS:

- For use with mobile, reeling, or stationary mining equipment, continuous mining machines, or longwall loading machines, blast hole drillers, and heavy-duty trailing cable where maximum protection is required.
- Type SHD-GC is also an excellent choice for shovels, draglines, dredges, cranes and marine ships to shore power supply anytime extra durability is required.

CONSTRUCTION

- **CONDUCTORS:** Tin coated, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B-33/B-172.
- **SEPARATOR:** A separator tape is applied between the conductor and insulation to facilitate stripping.
- **INSULATION:** Black flame resistant, Ethylene Propylene Rubber (EPR), ozone, oil, water solvents, corrosive, and abrasion resistant per ICEA S-75-381/NEMA WC-58.
- **SHIELD SEPARATOR:** An SBR tape is applied to each primary phase's insulation, 1/2 overlap with adhesive side up.
- **CONDUCTOR SHIELD:** Tin coated, soft drawn, annealed, copper braid shield (60% min. phase coverage), duplexes with nylon textile buffer colour code tracer (40% max. phase coverage).
- **COLOUR CODE:** Red, Black, Blue
- **GROUND WIRES:** Tin coated, uninsulated, soft drawn, annealed, rope bunched, flexible lay construction, per ASTM B-172 and B-33.
- **GROUND CHECK:** Yellow, flame resistant, High Durometer Ethylene Propylene Rubber (HD EPR) insulation over tin coated, rope bunched, flexible lay copper.
- **CABLING:** Three insulated shielded conductors are assembled in a helical configuration with two non-insulated ground wires and one yellow HD EPR insulated ground check. A woven nylon polyester binder is served over the entire cable assembly for added core stability.
- **JACKET REINFORCEMENT:** A woven nylon polyester binder will be served between the inner and outer jacket layers for improved mechanical integrity.
- **JACKET:** Mold cured, extra heavy-duty, pure integral fill, dual layer, flame resistant, thermosetting Chlorinated Polyethylene (CPE) jacket. Alternate jacket colours and reflective stripes available in High Tensile Rhino-X Jacket (consult with factory).

STANDARDS AND REFERENCES

- Rhino™ Brand Mining Cable meets or exceeds applicable requirements of ICEA Standard S-75-381/NEMA WC-58, ASTM B-172 and B-33
- MSHA listed; passes MSHA flame test
- CSA Listed File # LL65300 FT1, FT4, FT5 CSA C22.2, No. 96 Portable Power Cables
- CSA Standard M421 - Use of Electricity in Mines



BENEFITS

- Excellent resistance to oil, water, solvents, corrosives, sunlight, aging, cuts, tears and abrasions
- Excellent flexibility, safety and durability
- Free stripping insulation via non-conductive mylar tape separator
- Tinned coated rope bunched, flexible lay copper per ASTM B-172 and B-33
- Suitable for continuous submersion in shallow water
- Jacket will have permanent marking via embossed printed legend

WEIGHTS AND MEASUREMENTS

POWER CONDUCTORS			GROUNDING CONDUCTORS			GROUND CHECK		APPROX. O.D.	AMPS ¹	APPROX. SHIP WT. lbs/1000 ft
SIZE	STRANDS	INS.	NO.	SIZE	STRANDS	SIZE	STRANDS			
3-CONDUCTOR										
12	65	0.070	2	12	65	12	65	0.950	35	447
10	104	0.070	2	12	65	12	65	1.00	49	574
8	168	0.070	2	10	104	10	104	1.16	65	653
6	133	0.070	2	10	104	10	104	1.29	102	1120
4	259	0.070	2	8	168	8	168	1.40	134	1347
2	308	0.070	2	6	133	8	168	1.59	175	1895
1/0	273	0.080	2	4	259	8	168	1.86	232	2785
2/0	324	0.080	2	3	259	8	168	2.00	267	3190
3/0	418	0.080	2	2	308	8	168	2.13	307	3636
4/0	532	0.080	2	1	385	8	168	2.31	353	4684
250	608	0.095	2	1/0	273	6	168	2.51	390	5750
350	855	0.095	2	2/0	324	6	168	2.81	478	6817
500	1221	0.095	2	4/0	532	6	168	3.19	590	9998

¹ Ampacities are based on 30°C ambient temperature in air, 90°C conductor temperature per Table 1A in CSA Standard M421. For an ambient temperature of 40 Deg. C multiply these values by 0.91. For other temperature correction factors refer to Table 1B in CSA Standard M421.