

RHINO SHIELD™

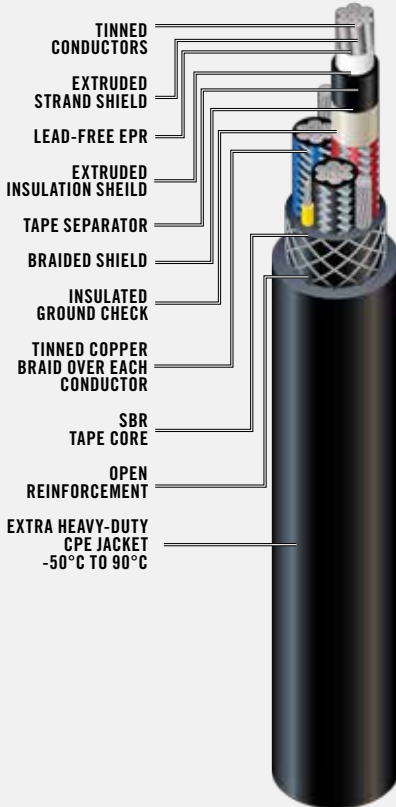
TYPE SHD-GC 5-25 kV

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 high voltage shovels, draglines, dredges, cranes and marine ship 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.
- **STRAND SHIELD:** Extruded semi-conductive layer.
- **INSULATION:** HV grade flame resistant thermosetting lead free Ethylene Propylene Rubber (EPR) 100% insulation per ICEA S-75-381/NEMA WC-58.
- **INSULATION SHIELD:** Extruded semi-conductive layer.
- **COLOUR CODE:** Red, Black, Blue
- **BRAID 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).
- **GROUND WIRES:** Uninsulated, tin coated, soft drawn, annealed, rope stranded, flexible lay copper.
- **GROUND CHECK:** Tin coated, soft drawn, annealed, rope stranded, flexible lay copper; with Yellow High Durometer (HD) Thermosetting Ethylene Propylene Rubber insulation.
- **CABLING:** Three shielded conductors are assembled round in a helical configuration with two uninsulated ground wires, one yellow insulated ground check and an overall tape separator.
- **REINFORCEMENT:** A woven nylon polyester reinforcement binder is served over the entire cabled assembly for improved mechanical integrity.
- **JACKET:** Mold cured, extra heavy-duty, modified integral fill, dual layer, flame resistant, thermosetting Chlorinated Polyethylene (CPE). Alternate jacket colours and reflective stripes available. Available with High Tensile Rhino-X and TPU Jackets (consult with factory).



END VIEW



STANDARDS AND REFERENCES

- Meets or exceeds ICEA requirements as applicable for ICEA S-75-381/NEMA WC 58, ASTM B-3
- 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
- Suitable for continuous submersion in shallow water
- Jacket will have permanent marking via embossed printed legend

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WEIGHTS AND MEASUREMENTS

POWER CONDUCTORS			GROUNDING		GROUND CHECK		NOM. O.D.	AMPS ¹	APPROX. SHIP WT. lbs/1000 ft
SIZE	STRANDS	INS.	SIZE	STRANDS	SIZE	INS.			
5000 VOLTS									
6	133	0.110	10	104	8	0.045	1.56	102	1130
4	259	0.110	8	168	8	0.045	1.68	134	1490
2	308	0.110	6	133	8	0.045	1.87	175	2480
1	385	0.110	5	133	8	0.045	1.95	202	2565
1/0	273	0.110	4	259	8	0.045	2.08	232	2657
2/0	324	0.110	3	259	8	0.045	2.20	267	3282
3/0	418	0.110	2	308	8	0.045	2.36	307	3850
4/0	532	0.110	1	385	8	0.045	2.50	353	5085
250	608	0.120	1/0	273	6	0.045	2.69	390	6285
350	855	0.120	2/0	324	6	0.045	2.95	478	7780
500	1221	0.120	4/0	532	6	0.045	3.31	590	10405
8000 VOLTS									
4	259	0.150	8	168	8	0.045	1.94	134	1937
2	308	0.150	6	133	8	0.045	2.12	175	2416
1	385	0.150	5	133	8	0.045	2.21	202	2895
1/0	273	0.150	4	259	8	0.045	2.32	232	3085
2/0	324	0.150	3	259	8	0.045	2.46	267	4189
3/0	418	0.150	2	308	8	0.045	2.62	307	4850
4/0	532	0.150	1	385	8	0.045	2.75	353	5144
250	608	0.150	1/0	273	6	0.045	2.89	390	6650
350	855	0.150	2/0	324	6	0.045	3.20	478	7998
500	1221	0.150	4/0	532	6	0.045	3.56	590	10 687

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.

WEIGHTS AND MEASUREMENTS

POWER CONDUCTORS			GROUNDING		GROUND CHECK		NOM. O.D.	AMPS ¹	APPROX. SHIP WT. lbs/1000 ft
SIZE	STRANDS	INS.	SIZE	STRANDS	SIZE	INS.			
15,000 VOLTS									
2	308	0.210	6	133	8	0.045	2.41	180	3320
1	385	0.210	5	133	8	0.045	2.52	206	3875
1/0	273	0.210	4	259	8	0.045	2.64	236	4250
2/0	324	0.210	3	259	8	0.045	2.73	271	4405
3/0	418	0.210	2	308	8	0.045	2.90	311	5200
4/0	532	0.210	1	385	8	0.045	3.05	358	6415
250	608	0.210	1/0	273	6	0.045	3.15	395	6895
350	855	0.210	2/0	324	6	0.045	3.40	482	9050
500	1222	0.210	4/0	532	6	0.045	3.68	590	10 890
25,000 VOLTS									
1	385	0.260	5	133	8	0.045	2.95	210	4250
1/0	273	0.260	4	259	8	0.045	3.05	240	4760
2/0	324	0.260	3	259	8	0.045	3.20	274	5520
3/0	418	0.260	2	308	8	0.045	3.33	315	6350
4/0	532	0.260	1	385	8	0.045	3.50	360	5144
250	608	0.260	1/0	273	6	0.045	3.54	396	7895
350	855	0.260	2/0	324	6	0.045	3.85	482	9980

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.