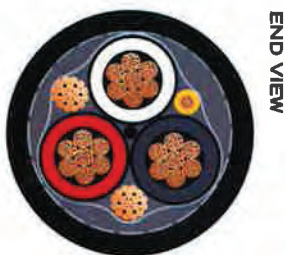
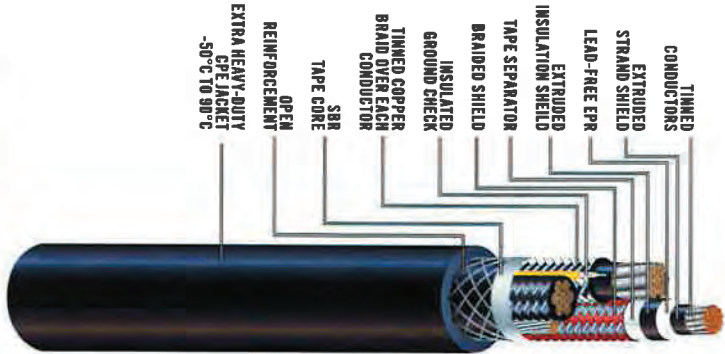


RHINOSHIELD™

TYPE SHD-GC 5-25 KV

UNDERGROUND AND SURFACE MINING CABLE



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.
- **COLOR CODE:** Black, White, Red
- **BRAID SHIELD:** Tin coated, soft drawn, annealed, copper braid shield (60% min. phase coverage), duplexes with nylon textile buffer color 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 colors and reflective stripes available. Available with High Tensile Rhino-X and TPU Jackets (consult with factory).

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

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



RHINOSHIELD™
TYPE SHD-GC 5-25 KV

WEIGHTS AND MEASUREMENTS

POWER CONDUCTORS			GROUNDING		GROUND CHECK		NOM. O.D.	AMPS†	APPROX. SHIP WT. lbs/1000 ft
SIZE	STRANDS	INS.	SIZE	STRANDS	SIZE	INSULATION			
5000 VOLTS									
6	133	0.110	10	104	8	0.045	1.56	79	1130
4	259	0.110	8	168	8	0.045	1.68	104	1490
2	308	0.110	6	133	8	0.045	1.87	138	2480
1	385	0.110	5	133	8	0.045	1.95	161	2565
1/0	273	0.110	4	259	8	0.045	2.08	186	2657
2/0	324	0.110	3	259	8	0.045	2.20	215	3282
3/0	418	0.110	2	308	8	0.045	2.36	249	3850
4/0	532	0.110	1	385	8	0.045	2.50	287	5085
250	608	0.120	1/0	273	6	0.045	2.69	320	6285
350	855	0.120	2/0	324	6	0.045	2.95	394	7780
500	1221	0.120	4/0	532	6	0.045	3.31	487	10405
8000 VOLTS									
4	259	0.150	8	168	8	0.045	1.94	122	1937
2	308	0.150	6	133	8	0.045	2.12	159	2416
1	385	0.150	5	133	8	0.045	2.21	184	2895
1/0	273	0.150	4	259	8	0.045	2.32	211	3085
2/0	324	0.150	3	259	8	0.045	2.46	243	4189
3/0	418	0.150	2	308	8	0.045	2.62	279	4850
4/0	532	0.150	1	385	8	0.045	2.75	321	5144
250	608	0.150	1/0	273	6	0.045	2.89	355	6650
350	855	0.150	2/0	324	6	0.045	3.20	435	7998
500	1221	0.150	4/0	532	6	0.045	3.56	536	10687

¹Ampacities are based on 40°C ambient temperature in air, 90°C conductor temperature per Table H-1 of ICEA S-75-381.

UNDERGROUND AND SURFACE MINING CABLE

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	INSULATION			
15000 VOLTS									
2	308	0.210	6	133	8	0.045	2.41	164	3320
1	385	0.210	5	133	8	0.045	2.52	187	3875
1/0	273	0.210	4	259	8	0.045	2.64	215	4250
2/0	324	0.210	3	259	8	0.045	2.73	246	4405
3/0	418	0.210	2	308	8	0.045	2.90	283	5200
4/0	532	0.210	1	385	8	0.045	3.05	325	6415
250	608	0.210	1/0	273	6	0.045	3.15	359	6895
350	855	0.210	2/0	324	6	0.045	3.40	437	9050
500	1222	0.210	4/0	532	6	0.045	3.68	534	10890
25000 VOLTS									
1	385	0.260	5	133	8	0.045	2.95	191	4250
1/0	273	0.260	4	259	8	0.045	3.05	218	4760
2/0	324	0.260	3	259	8	0.045	3.20	249	5520
3/0	418	0.260	2	308	8	0.045	3.33	286	6350
4/0	532	0.260	1	385	8	0.045	3.50	327	5144
250	608	0.260	1/0	273	6	0.045	3.54	360	7895
350	855	0.260	2/0	324	6	0.045	3.85	439	9980

¹Ampacities are based on 40°C ambient temperature in air, 90°C conductor temperature per Table H-1 of ICEA S-75-381.