



CONDUMEX

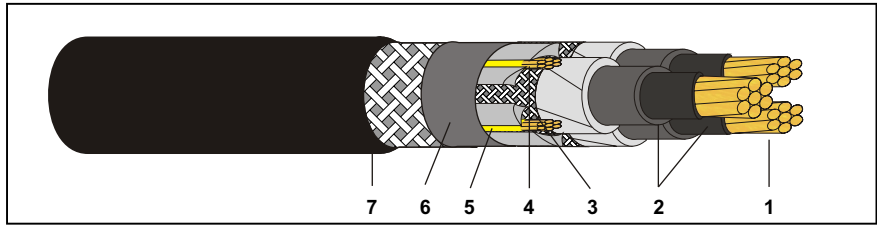


MINING CABLE EPR TYPE SHD-GC THREE CONDUCTOR 5000 VOLTS

18.SHD-GC.01

DESCRIPTION

- 1) Three flexible annealed tinned copper rope-lay stranded conductors.
- 2) Extruded semi-conducting conductor shield and ethylene propylene rubber (EPR) insulation.
- 3) Color coded cotton/copper braid shield applied over semi-conducting tape.
- 4) Two annealed tinned copper rope-lay stranded grounding conductors.
- 5) Annealed tinned copper rope-lay stranded ground check conductor, yellow EPR insulation and covered with a yellow cotton braid.
- 6) Rubberized cotton binder tape.
- 7) Nylon web reinforced extra-heavy-duty chlorosulfonated polyethylene (CSPE) jacket.



APPLICATION

Trailing cable on ac mining equipment where service conditions are severe and maximum safety is mandatory, such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming. Also used for medium voltage distribution in underground mines where frequent relocation is necessary.

MAXIMUM OPERATING VOLTAGE

5,000 volts

MAXIMUM CONDUCTOR TEMPERATURE

Normal continuous 90° C
 Overload 130° C
 Short circuit 250° C

FEATURES

- 1) Special tinned copper stranded conductors designed for flexibility and resistance to fatigue resulting from bending and flexing.
- 2) Ground check conductor facilitates fail-safe ground monitoring for maximum safety.
- 3) EPR insulation offers excellent heat and moisture resistance, outstanding corona resistance, high dielectric strength and chemical resistance.
- 4) Prevulcanized thermosetting non-wicking fillers are used if necessary to obtain a substantially round configuration.
- 5) PLCV-Cured extra-heavy-duty CSPE, reinforced with a nylon webbing, provides a tough, defense mechanical resistant jacket.
- 6) Acceptance No. P-218-1-MSHA by Mines Safety and Health Administration Approval No. P-218-1-MSHA by the Pennsylvania Department of Environmental Resources. Meets MSHA flame test requirements.

SPECIFICATIONS

ICEA-S-68-516

HOW TO ORDER

Condumex Mining Cable EPR type SHD-GC three conductor cable, voltage size and length.

Size AWG/ kcmil	Number of Strands /AWG	Conductor Diameter inch	Insulation Thickness mils	Ground Size AWG	Ground Check Size AWG	Overall Diameter inch	Net Weight lb/mft
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6	7x30/29	0.20	110	10	8	1.56	1675
4	7x47/29	0.25	110	8	8	1.68	1888
2	7x74/29	0.31	110	6	8	1.87	2322
1	7x37/25	0.35	110	5	8	1.95	2653
1/0	7x47/25	0.39	110	4	8	2.08	3068
2/0	7x60/25	0.45	110	3	8	2.20	3504
3/0	7x75/25	0.50	110	2	8	2.36	4206
4/0	19x35/25	0.59	110	1	8	2.50	5023
300	19x49/25	0.69	120	1/0	8	2.81	6371
350	19x58/25	0.76	120	2/0	8	2.95	7654

Dimension and weights shown are nominal, unless otherwise indicated, and subject to manufacturing tolerances.