

Type SHD-GC 3C, EPR Insulated, CPE Jacketed

2 kV, Shielded

CME[®]
wire and cable

A Viakable Company

Features

Certify by MSHA.

Meets all requirements of ICEA S-75-381.

Reformulated compounds suitable for CV curing, developed to meet the high level of physical properties required in service.

-40 °C Rating CPE Jacket.

Application

For use with Bretby type cable handling devices on longwall machines and as Trailing cable on ac mining equipment where a ground check conductor is required for fail-safe ground monitoring.

For use where induce voltages in grounding system will not produce a hazard.

This cable is designed for use on low and medium voltage AC circuits where shielding is desired or required.

Standards

ICEA S-75-381/NEMA WC-58

Portable and Power Feeder Cables for Use in Mines and Similar Applications.

CFR Title 30 Federal Regulations, Part 7, Subpart K.

MSHA 7K-228057

Specifications

Maximum operating voltage:

- 2 kV

Maximum conductor operation temperature:

- 90 °C wet or dry locations under normal operating conditions.

Engineering Information

1. Phase, Grounding and Ground Check Conductors:

Soft or annealed tinned coated copper conductor, rope lay flexible stranding per ASTM B172. **Conductors** 1/0 and larger are class I stranding and conductors #1 and smaller are class H stranding.

2. Conductor Separator: May be applied over the conductor.

3. Insulation: High quality, heat, moisture, ozone and, thermosetting ethylene propylene rubber (EPR) meeting ICEA.

4. Insulation Shield: An overlapped semiconducting tape shall be applied over the insulation.

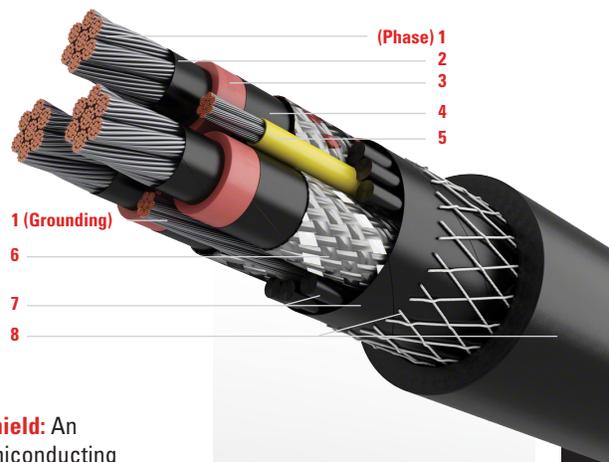
5. Ground Check: Thermosetting insulation yellow colored for identification.

6. Metallic Component: A composite fiber-copper braid shield, tinned coated copper wires, with colored fibers for phase identification (black, white, red).

7. Assembly: Phase, ground check and grounding conductors cabled together with hygroscopic fillers and a binder tape.

8. Jacket: Black heavy duty or extra heavy duty chlorinated polyethylene (CPE) compound, applied in one layer over a fibrous reinforcement layer.

Markings: Ink printed type.



Technical Data

Type SHD-GC EPR Insulated

Phase Conductor Size	Number of Strands	Size of Each Strand	Nominal Insulation Thickness	Ground Conductor Size	Nominal Outer Jacket Thickness	Maximum Overall Diameter	Approximate Total Weight
AWG or kcmil		AWG	mil	AWG	mil	in	lb/kft
6	133	27	70	10	155	1.35	1089
4	259	28	70	8	155	1.47	1371
2	259	26	70	6	170	1.67	1868
1	259	25	80	5	190	1.85	2312
1/0	259	24	80	4	190	1.95	2681
2/0	329	24	80	3	205	2.10	3152
3/0	413	24	80	2	205	2.24	3703
4/0	532	24	80	1	220	2.43	4348
250	608	24	95	1/0	220	2.63	4973
300	741	24	95	1/0	235	2.81	5752
350	855	24	95	2/0	235	2.95	6525
500	1221	24	95	4/0	265	3.35	9206

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

Phase Conductor Size	Ground Check Conductor Size
	AWG
6 to 2 AWG	10
1 AWG - 500 kcmil	8