

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

2 kV

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

Trailing cable on ac mining equipment where a ground conductor is required.

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

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-228054

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.

2. Separator: A separator may be applied over the conductor.

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

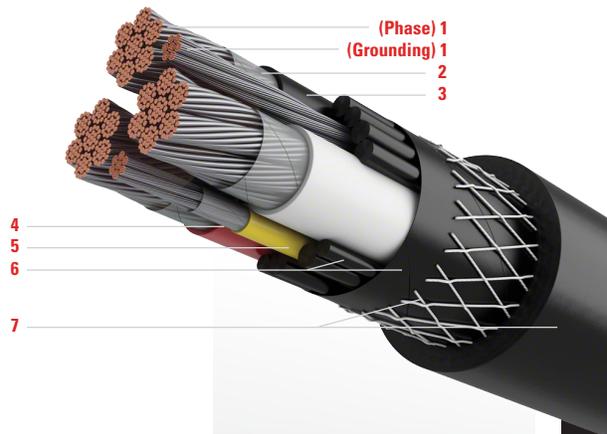
4. Phase ID: Color coded insulation, Black, White and Red.

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

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

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

Markings: Ink printed type.



Technical Data

Type G-GC EPR Insulated

Phase Conductor Size	Number of Strands	Size of Each Strand	Nominal Insulation Thickness	Ground Conductor Size	Maximum Overall Diameter	Approximate Total Weight
AWG or kcmil		AWG	mil	AWG	in	lb/kft
8	133	29	60	10	1.00	652
6	133	27	60	10	1.08	800
4	259	28	60	8	1.22	1082
2	259	26	60	7	1.37	1458
1	259	25	80	6	1.54	1848
1/0	259	24	80	5	1.69	2251
2/0	329	24	80	4	1.79	2681
3/0	413	24	80	3	1.94	3232
4/0*	532	24	80	2	2.09	3642
250*	608	24	95	2	2.45	4556
300*	741	24	95	1	2.62	5389
350*	855	24	95	1/0	2.74	6095
500*	1221	24	95	2/0	3.09	7916

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.

* Extra heavy duty jacket.

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