904-543-1223, 800-997-2443, Fax: 904-543-1330, www.paigeelectric.com

Paige spec

P7364M-15KV SHD-GC

HEAVY-DUTY MINING CABLE

8000V/15,000V SHD-GC PORTABLE POWER CABLE EXTRA HEAVY DUTY EPR / NEO 90°C MSHA MINING GRADE

INSULATION: **(EPR) ETHYLENE PROPYLENE RUBBER**

OUTER JACKET: **REINFORCED NEOPRENE**

SIZES: **6 AWG – 1 AWG**

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33

RoHS COMPLIANT

1.0 APPLICATIONS:

1.1

- For use as trailing mining cables.
- Use on AC off track equipment such as longwall & continuous miners, loaders, blast hole drillers, conveyors, pumps and mobile equipment requiring grounding conductors and ground check and metallic shielding overall.
- For use in applications where ground check conductor is required for added safety.
- Maximum continuous conductor temperature 90°C.

2.0 FEATURES:

2.1

- Excellent Flexibility
- High ozone, sun, weather and flame resistant
- Rated and flexible at -40°C
- Excellent impact and abrasion resistant
- Oil and heat resistant
- Indent printed for easy identification

3.0 CONSTRUCTION:

3.1 *Conductors:*
Flexible strand tinned copper conductor, ASTM B-172 and ICEA S-75-381, table 3-22.

3.2 *Seperator:*
Polyester tape between conductor and insulation. ICEA S-75-381.

3.3 *Conductor Shield:*
Extruded semi-conducting layer over conductor. ICEA S-75-381 sec. 3.14

3.4 *Insulation:*
Ethylene-propylene rubber (EPR) ICEA S-75-381, table 3-22.

3.5 *Insulation Shield:*
Semi-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage.

3.6 *Color Code:*
Polyamide braid color code - black, white, red, ICEA S-75-381.

3.7 *Grounding Conductors:*
Tinned copper - ICEA S-75-381 Tab. 3-22.

3.8 *Ground Check:*
Yellow polypropylene-insulated tinned copper conductor, ICEA S-75-381 Tab. 3-22.

3.9 *Cable Assembly:*
Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core.

3.10 *Separator:*
Single faced rubber-filled binder tape applied over core.

3.11 *Jacket:*
Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, ICEA S-75-381 Tab. 3-3, 3-22, Sec. 3.21.

4.0 APPROVALS:

4.1 MSHA:
4.1.1 P-07-KA060012 (Neoprene)

5.0 Dimensions

Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approximate Weight	
AWG or MCM	No. of Stranding	AWG	AWG	Stranding	inches	inches	inches	mm	lbs/1000 ft	kgs/km
1/0	266 19 x 14	8	4	259 7x37	0.150	0.220	2.32	58.9	3530	5112
2/0	342 19 x 18	8	3	259 7x37	0.150	0.235	2.46	62.5	4160	6191
4/0	532 19 x 28	8	1	259 7x37	0.150	0.250	2.75	69.9	5590	8319
2	259 7 x 37	8	6	133 7x19	0.210	0.235	2.41	61.2	3505	5216
1/0	266 19 x 14	8	4	259 7x37	0.210	0.250	2.64	67.1	4614	6867
2/0	342 19 x 18	8	3	259 7x37	0.210	0.250	2.73	69.3	4895	7285
4/0	532 19 x 28	8	1	259 7x37	0.210	0.265	3.05	77.5	6821	10151

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

6.0 Electrical and Mechanical Parameters

Power Grounding Conductor Size	Power Conductor Resistance at 25°C	Grounding Conductor Resistance at 25°C	Ground Check Resistance at 25°C	Inductance Per Unit Length	Operating Capacitance Per Unit Length	Permissible Short Circuit Current (2) (1s)	Maximum Permissible Tensile Force
AWG or MCM	Ω / 1000 FT	Ω / 1000 FT	Ω / 1000 FT	mH / 1000 FT	mH / 1000 FT	kA	N
2 - 6	0.172	0.436	0.679	0.122	0.09	4.80	1500
1/0 - 4	0.109	0.274	0.679	0.113	0.10	7.65	2400
2/0 - 3	0.0868	0.227	0.679	0.107	0.11	9.64	3000
4/0 - 1	0.0546	0.137	0.679	0.101	0.13	15.30	4800