



# Paige SPEC

**P7341M-SHD-GC 2kV**

Rev 1



**PORTABLE POWER CABLE**  
**EXTRA HEAVY DUTY** **pumpwire**  
**EPR/NEO 90°C**  
**MSHA MINING GRADE**  
**3 CONDUCTOR SHIELDED-GC 2000V**  
**INSULATION: (EPR) ETHYLENE PROPYLENE RUBBER**  
**OUTER JACKET: NEOPRENE**  
**SIZES: 12 AWG – 500 MCM**  
**90°C Wet/Dry, MSHA**

WE SPECIALIZE IN SUBMERSIBLES



### 1.0 APPLICATIONS:

**1.1** Shielded, Flexible Portable Power Pump Cable designed 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 -50°C
  - Excellent impact and abrasion resistant
  - Oil and heat resistant
  - Indent printed for easy identification

### 3.0 CONSTRUCTION:

- 3.1 Conductors:**  
Flexible stranded tinned copper in accordance with ASTM B 172 and ICEA S-75-381 table 3-22.
- 3.2 Conductor Shielding:**  
Extruded semi-conducting layer over the conductor. ICEA S-75-381 sec 3.14
- 3.3 Insulation:**  
Ethylene-propylene rubber (EPR). ICEA S-75-381 table 3-22.
- 3.4 Insulation Shield:**  
Non-conducting bedding tape and composite tinned copper/polyamide braid. Coverage minimum 60%.

### 3.5 Color Code:

Polyamide braid color code – black, white, red ICEA S-75-381.

### 3.6 Grounding Conductors:

Tinned copper as per Tab. 3-22 of ICEA S-75-381.

### 3.7 Ground Check:

Yellow polypropylene-insulated tinned copper conductor ICEA S-75-381 Tab. 3-22.

### 3.8 Assembly:

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

### 3.9 Separator:

Single faced rubber filled binder tape applied over core.

### 3.10 Color of Jacket:

Black, extra heavy duty high torsion-resistant, integral-filled reinforced Neoprene thermoset jacket ICEA S-75-381 Tab 3-3, 3-22, Sec3.21.

### 4.0 APPROVALS:

#### 4.1 MSHA:

- 4.1.1 P-07-KA060012 (Neoprene)
- 4.1.2 P-7K-268101 (CPE)
- 4.1.3 P-07-KA030001 (TPU)

#### 4.2 CSA:

available on request.

**We're Big in Big pump cable.**

## 5.0 Dimensions

Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor Size	Power Conductor Stranding	Insulation Thickness	Jacket Thickness	Cable O.D.		Approximate Weight		Ampacity (1) 40°C Ambient Temp.
							inches	mm	lbs/1000 ft	kgs/km	
12	49 7 x 7	10	12	49 7x7	0.070	0.125	0.92	23.4	557	829	
10	49 7 x 7	10	12	49 7x7	0.070	0.125	0.95	24.1	623	927	
8	133 7 x 19	10	10	49 7x7	0.070	0.155	1.13	28.7	818	1217	
6	133 7 x 19	8	10	49 7x7	0.070	0.155	1.29	32.8	1056	1571	93
4	259 7 x 37	8	8	133 7x19	0.070	0.155	1.40	35.6	1400	2083	122
2	259 7 x 37	8	6	133 7x19	0.070	0.170	1.59	40.4	1848	2750	159
1	259 7 x 37	8	5	133 7x19	0.080	0.170	1.76	44.7	2350	3497	184
1/0	266 19 x 14	8	4	259 7x37	0.080	0.190	1.86	47.2	2700	4018	211
2/0	342 19 x 18	8	3	259 7x37	0.080	0.205	2.00	50.8	3241	4824	243
3/0	418 19 x 22	8	2	259 7x37	0.080	0.205	2.13	54.1	3800	5654	279
4/0	532 19 x 28	8	1	259 7x37	0.080	0.220	2.31	58.7	4349	6919	321
250 MCM	627 19 x 33	6	1/0	266 19x14	0.095	0.220	2.51	63.8	5750	8557	355
300 MCM	740 37 x 20	6	1/0	266 19x14	0.095	0.235	2.70	68.6	6602	9827	395
350 MCM	888 37 x 24	6	2/0	342 19x18	0.095	0.235	2.81	71.4	7200	10713	435
500 MCM	1221 37 x 33	6	4/0	532 19x28	0.095	0.265	3.19	81.0	9900	14731	536

(1) Ampacity – Free air measured based on continuous duty at 90°C conductor temperature (2) Short Circuit current (1s) –Based on conductor temperature form 90°C up to 250°C

## 6.0 Electrical and Mechanical Parameters

Power Grounding Conductor Size	Power Conductor Resistance at 20°C	Grounding Conductor Resistance at 20°C	Ground Check Resistance at 20°C	Inductance Per Unit Length	Operating Capacitance Per Unit Length	Permissible Short Circuit Current (1s)	Maximum Permissible Tensile Force
AWG	Ω / 1000 FT	Ω / 1000 FT	Ω / 1000 FT	mH / 1000 FT	mH / 1000 FT	kA	N
6 - 10	0.436	1.109	0.679	0.118	0.09	190	600
4 - 8	0.274	0.697	0.679	0.107	0.11	3.03	950
2 - 6	0.172	0.436	0.679	0.101	0.13	4.80	1500
1 - 5	0.137	0.349	0.679	0.100	0.13	6.06	1900
1/0 - 4	0.109	0.274	0.679	0.097	0.14	7.65	2400
2/0 - 3	0.0868	0.227	0.679	0.092	0.16	9.64	3000
3/0 - 1	0.0688	0.172	0.679	0.091	0.17	12.15	3800
4/0 - 1	0.0546	0.137	0.679	0.088	0.19	15.30	4800
250 MCM - 1/0	0.0466	0.109	0.436	0.084	0.21	18.16	5800
300 MCM - 2/0	0.0389	0.109	0.436	0.083	0.22	21.74	6825
350 MCM - 2/0	0.0333	0.0868	0.436	0.081	0.24	25.31	7900
500 MCM - 4/0	0.0233	0.0546	0.436	0.078	0.28	36.18	11400