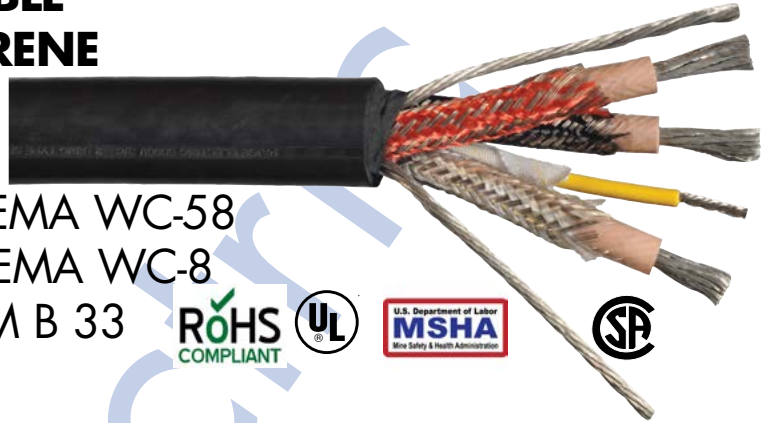




**SUBMERSIBLE PUMP CABLE**  
**HYDROFLEX EPR/NEOPRENE**  
**SHIELDED 8000V 90°C**  
**WET/DRY C(UL) MSHA**



STANDARDS: ICEA S-75-381/NEMA WC-58  
 ICEA S-68-516/NEMA WC-8  
 ASTM B172, ASTM B 33



**1.0 APPLICATIONS:**

**1.1** These Cable are used for Heavy Duty Submersible Motors where shielding is required and Per NEC code for motors over 2400Volts. The cables are (Cul) Listed Submersible Pump Cable and MSHA Approved. Designed for use as heavy duty deep well fresh or salt water (suitable for continuous submersion to 984') submersible pump.

ored black, white, red in accordance with ICEA S-75-381.

**2.0 FEATURES:**

- 2.1**
  - Excellent flexibility.
  - Highly ozone, sun, weather, water and flame resistant.
  - Rated and flexible at -40°C.
  - Excellent impact and abrasion resistant.
  - Oil and heat resistant.
  - Indent printed for easy identification.

**3.6 Grounding conductors:**

Annealed tin coated copper as per Tab. 3-24 of ICEA S-75-381.

**3.7 Ground check:**

Annealed tin coated copper as per Tab. 3-21 of ICEA S-75-381. Color of insulation: yellow

**3.8 Assembly:**

Three power, ground check and two non-insulated grounding conductors cabled together. Single faced rubber filled binder tape applied overall. Integral filled jacket for higher torsion resistance.

**3.0 CONSTRUCTION:**

**3.1 Conductors:**  
 Annealed flexible stranded tin coated copper in accordance with ASTM B-172 and ICEA S-75-381.

**4.0**

**3.2 Conductor shielding:**  
 Semi-conducting layer over the conductor.

**3.3 Insulation:**  
 Ethylene-propylene rubber (EPR).

**3.4 Insulation shield:**  
 Non conducting bedding tape +composite tinned copper/fiber braid. Covering minimum 60%.

**3.5 Circuit identification:**  
 The nylon in the shielding braid is col-

**3.9 Jacket:**

A reinforced NEOPRENE, CPE, TPU optional jacket available. Type extra heavy duty in accordance with Par. 3.21 of ICEA S-75-381.

**3.10 Color of jacket:**

Black, other colors available upon request

**APPROVALS**

**4.1 MSHA:**

- 3.1.1 P-7K-254029-1 (Neoprene)
- 3.1.2 P-7K-268101 (CPE)
- 3.1.3 P-07-KA030001 (TPU)

**4.2 Standard length cable packing:**

1000 ft reels. Other forms of packaging available upon request.

## 5.0

PAIGE PART NUMBER	POWER CONDUCTOR SIZE	POWER CONDUCTOR STRANDING	GROUND CHECK COND. SIZE	GROUNDING CONDUCTOR		NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	APPROX. O.D.		APPROX. WEIGHT	
	AWG or MCM	NO. OF WIRES	AWG	AWG	NO. OF WIRES	INCHES	INCHES	INCHES	MM	lbs/1000 ft	ft kgs/km
7359SP1	4 AWG	259 7x37	8	8	133 7x19	0.150	0.205	1.94	49.3	2132	3173
7359SP2	2 AWG	259 7x37	8	6	133 7x19	0.150	0.220	2.12	53.8	2780	4137
7359SP3	1 AWG	259 7x37	8	5	133 7x19	0.150	0.220	2.21	56.0	3300	4911
7359SP4	1/0 AWG	266 19x14	8	4	259 7x37	0.150	0.220	2.32	58.9	3530	5112
7359SP5	2/0 AWG	342 19x18	8	3	259 7x37	0.150	0.235	2.46	62.5	4160	6191
7359SP6	3/0 AWG	418 19x22	8	2	259 7x37	0.150	0.250	2.62	66.6	5000	7440
7359SP7	4/0 AWG	532 19x28	8	1	259 7x37	0.150	0.250	2.75	69.9	5590	8319
7359SP8	250 MCM	627 19x33	8	1/0	266 19x14	0.150	0.250	2.89	73.4	6680	9941
7359SP9	350 MCM	888 37x24	8	2/0	342 19x18	0.150	0.280	3.20	81.3	8410	12515
7359SP10	500 MCM	1221 37x33	8	4/0	532 19x28	0.150	0.295	3.39	86.1	9909	14746

## 5.1

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 PR UNIT LENGTH	PERMISSIBLE SHORT-CIRCUIT CURRENT <sup>2</sup> (1S)	AMPACITY <sup>1</sup> 40°C AMBIENT TEMP.	MAXIMUM PERMISSIBLE TENSILE FORCE
AWG or MCM	Ω /1000Ft	Ω /1000Ft	Ω /1000Ft	mH/1000Ft	μF/1000Ft	kA	A	N
4 AWG – 8 AWG	0.274	0.697	0.679	0.129	0.08	3.03	122	950
2 AWG – 6 AWG	0.172	0.436	0.679	0.122	0.09	4.80	159	1500
1 AWG – 5 AWG	0.137	0.349	0.679	0.117	0.09	6.06	184	1900
1/0 AWG – 4 AWG	0.109	0.274	0.679	0.113	0.10	7.65	211	2400
2/0 AWG – 3 AWG	0.0868	0.227	0.679	0.107	0.11	9.64	243	3000
3/0 AWG – 2 AWG	0.0688	0.172	0.679	0.106	0.11	12.15	279	3800
4/0 AWG – 1 AWG	0.0546	0.137	0.679	0.101	0.13	15.30	321	4800
250 MCM – 1/0 AWG	0.0466	0.109	0.436	0.094	0.16	18.16	355	5800
350 MCM – 2/0 AWG	0.0333	0.0868	0.436	0.090	0.18	25.31	435	7900
500 MCM – 4/0 AWG	0.0233	0.0546	0.436	0.086	0.21	36.18	536	11400

**5.2 STANDARD PRINT LEGEND:**  
 Paige Electric Hydroflex Submersible Pump Cable  
 8000Volts Shielded 90°C (Cul) E# MSHA P7359D

(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