



SUBMERSIBLE PUMP CABLE
HYDROFLEX EPR/NEOPRENE
SHIELDED 15,000V 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.

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PAIGE PART NUMBERS	DESCRIPTION	POWER CONDUCTOR SIZE	POWER CONDUCTOR STRANDING	GROUND CHECK CONDUCTOR SIZE	GROUNDING CONDUCTOR		NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL 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
7364SP1	SHDGC 15KV2-3 Mining	2 AWG	259 7x37	8	6	259 7x37	0.210	0.235	2.41	61.2	3505	5216
7364SP2	SHDGC 15KV1-3 Mining	1 AWG	259 7x37	8	5	133 7x19	0.210	0.235	2.52	64.0	4084	6078
7364SP3	SHDGC 15KV1/0-3 Mining	1/0 AWG	266 19x14	8	4	259 7x37	0.210	0.250	2.64	67.1	4614	6867
7364SP4	SHDGC 15KV2/0-3 Mining	2/0 AWG	342 19x18	8	3	259 7x37	0.210	0.250	2.73	69.3	4895	7285
7364SP5	SHDGC 15KV3/0-3 Mining	3/0 AWG	418 19x22	8	2	259 7x37	0.210	0.265	2.90	73.7	5900	8779
7364SP6	SHDGC 15KV4/0-3 Mining	4/0 AWG	532 19x28	8	1	259 7x37	0.210	0.265	3.05	77.5	6821	10151
7364SP7	SHDGC 15KV250-3 Mining	250 MCM	627 19x33	8	1/0	259 7x37	0.210	0.265	3.20	81.8	7256	10800
7364SP8	SHDGC 15KV350-3 Mining	350 MCM	888 37x24	8	2/0	259 7x37	0.210	0.280	3.43	87.2	7982	11880
7364SP9	SHDGC 15KV500-3 Mining	500 MCM	1221 37x33	8	4/0	259 7x37	0.210	0.295	3.92	99.6	9406	14000

5.2

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 ² (1S)	AMPACITY ¹ 40°C AMBIENT TEMP.	MAXIMUM PERMISSIBLE TENSILE FORCE
AWG or MCM	Ω /1000Ft	Ω /1000Ft	Ω /1000Ft	mH/1000Ft	μF/1000Ft	kA	A	N
2 AWG – 6 AWG	0.172	0.436	0.679	0.131	0.07	4.80	164	1500
1 AWG – 5 AWG	0.137	0.349	0.679	0.126	0.07	6.06	187	1900
1/0 AWG – 4 AWG	0.109	0.274	0.679	0.122	0.08	7.65	215	2400
2/0 AWG – 3 AWG	0.0868	0.227	0.679	0.115	0.09	9.64	246	3000
3/0 AWG – 2 AWG	0.0688	0.172	0.679	0.114	0.09	12.15	283	3800
4/0 AWG – 1 AWG	0.0546	0.137	0.679	0.109	0.10	15.30	325	4800
250 MCM – 1/0 AWG	0.0466	0.109	0.436	0.101	0.12	18.16	355	5800
350 MCM – 2/0 AWG	0.0333	0.0868	0.436	0.096	0.13	25.31	435	7900
500 MCM – 4/0 AWG	0.0233	0.0546	0.436	0.091	0.16	36.18	536	11400

STANDARD PRINT LEGEND:

Paige Electric Hydroflex Submersible Pump Cable
15,000Volts Shielded 90°C (Cu) E# MSHA P7364D

(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