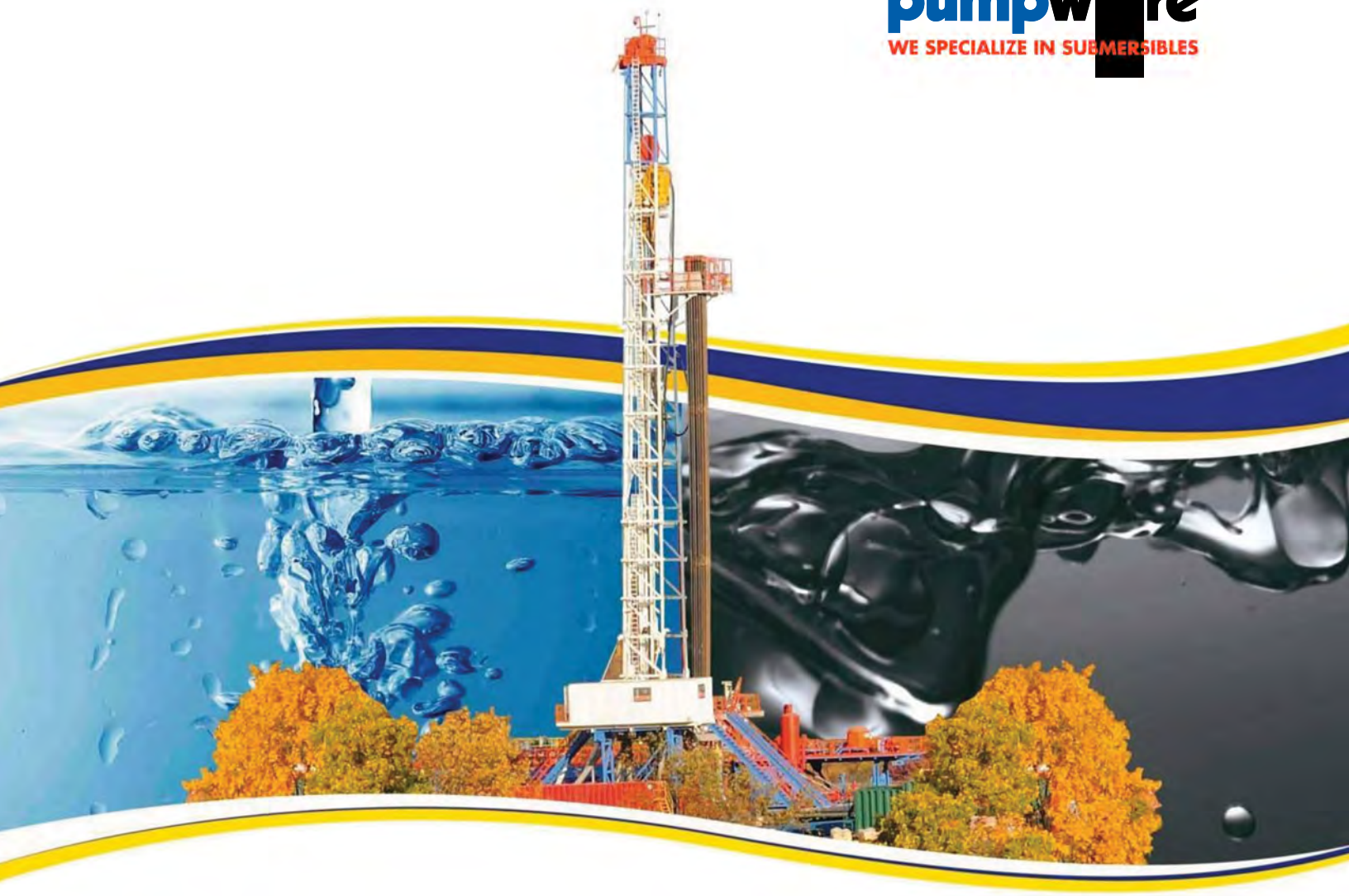
pumpwire

WE SPECIALIZE IN SUBMERSIBLES



SUBMERSIBLE PUMPS POWER CABLES / CABLES PARA BOMBAS SUMERGIBLES

Paige®

SUBMERSIBLE PUMPS POWER CABLES

Paige offers cables for the pumping systems installations (Electrical Submersible Pump) in oil wells, water and gas.

ESP Paige Cables are designed according to International standards ANSI / ICEA Insulated Cable Engineers Association, IEEE 1018, 1019 "Recommended Practice for Specifying Electric Submersible Pump Cable", API RP 11S5 "Recommended Practice for Application of Electric Submersible Cable Systems") to operate in extreme conditions is a well of oil. High temperature, high pressure, depth, presence of corrosive liquids and gases; characteristics that must be analyzed carefully for proper cable selection.

ESP Paige Cables are available in round configuration (ESP-R) and flat configuration (E-F). The round configuration is generally used in oil wells where there is no limitation of space between the tubing and casing, if this limitation exists to use the flat configuration.

The flat configuration is generally used in shallow, low temperature, provided that the insulation does not have barriers thermal or additional protection (mesh or tape).

The conductor used in the ESP Paige Cables is copper, with 99.9% purity, manufactured in accordance with ASTM 93. B8, 8496 and 833. The driver is selected or mm² AWG according to the required current capacity, voltage drop, economic considerations and characteristics of the well.

The copper wire may be tinned, with the aim of increasing its resistance to oxidation, gas attack and to improve adherence to the compound of isolation. Internationally, the industry has standardized the sizes 1, 2, 4 and 6 AWG, but other sizes can be used for special applications.

The standard ESP Paige Cables are composed of three insulated phase conductors and pre-assembled, which can be solid, or wired and compacted. The solid conductors are mainly used where you need a good blocking against the migration of gases and minimize the damage by hydrogen sulfide.

The adhesion between copper and the insulation is improved by using a special adhesive compound to prevent migration of gases and fluids.

The drivers lock wiring is done using a special locking compound fills the interstices between the wires preventing the migration of gases and fluids.

In addition to the three phases in the ESP cable, may be included control conductors, grounding, or galvanized steel conductors both in the flat configuration as in the round.

The insulation and jacket materials are selected according to the characteristics of the well where they are installed. Factors determine the proper selection of this compound are: temperature, pressure, GLR (gas-liquid ratio), operating voltage, physical stress on the cable.

Insulation materials determined by the IEEE standard are EPDM (Ethylene-polypropylene Diene Monomer) and polypropylene, and is used for jackets EPDM and Nitrile.

In addition to insulation and jacket materials can be used as barriers or mesh lape. The tapes form a barrier against ingress of fluid and gas to drivers tapes are generally used FEP (fluorinated ethylene propylene) or TEOLAR. The mesh provides mechanical reinforcement is generally used or Kynar® Nylon.

The armor on the cable provides protection and mechanical strength, as well as resistance against the expansion of elastomeric materials (insulation and covers) when exposed to well fluids. The armor can be galvanized steel, stainless steel, or Monel®, the selection of reinforcement material is based on the corrosiveness of the fluid in the well into which the cable will be installed. Monel® is used in the harshest environments, some of which include C02, H2S and high temperatures (above 160 ° F).

SUBMERSIBLE PUMPS POWER CABLES 180° F

APLICACIONES
Bom sumergibles ehéctricas en:
Pozos de agua.
Pozos poco profundos.
Baja presión en la profundidad del pozo

CARACTERÍSTICAS
Configuración: redonda
Temperatura de operación: 180°F [82°C]
Tensión de operacion: 4 kV

NORMAS
ASTM 83, Especificación estándar para alambre de cobre blando o recocido.

ASTM B496 Especificación estándar para conductores cableados concentricos redondos compactos.

ASTM 833, Especificacion esrnndar para alambres estafiados de cobre blando o recocido.

ICEA 5-96-659, Norma para cables no – apantallados con tensión nominal 2001-5000 voltios para uso en distribución de energía eléctrica.

NOTAS
Construcciones opcioоales y otras no indicadas, están disponibles bajo pedido.

APPLICATIONS
Electrical submersible pumps in:
Water Wells.
Shallow wells.
Low pressures in bottom-hole.

CHARACTERISTICS
Configuration: round
Rated Temperature: 180°F [82°C]
Rated Voltage: 4 kV

STANDARDS
ASTM 83, Standard specifi cation for soft or annealed copper wire.

ASTM 8496 Standard specification for compact round concentric lay - stranded copper conductors.

ASTM B33, Standard specification for tinned soft or annealed copper wires.

ICEA 5-96-659, Standard for nonshielded cables rated 2001 - 5000 Volts lor use in the distribution of electric energy.

NOTES
Optional constructions and other technical conditions different to the indicated are available upon request.

www.paigeelectric.com

Paige®

SUBMERSIBLE PUMPS POWER CABLES 180° F

4 kV-180°F/82°C Round Electrical Submersible Pump Cable

Conductor Size	Wires	Conductor Diameter		Insulatron Diameter		Overall Diameter		Approx. Welght	
AWG	No.	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
1	7	7.64	0.301	11.62	0.457	29.2	1.15	1673	1.12
2	7	6.81	0.268	10.79	0.425	27.4	1.08	1382	0.9
4	1	5.19	0.204	9.17	0.361	23.9	0.94	932	0.63
6	1	4.11	0.162	8.10	0.319	21.6	0.85	665	0.45

Materials and specifications are subject to change without notice.

CONSTRUCCIONES ALTERNATIVAS
NOMENCLATURA

Conductor:
AWG / Conductor redondo sólido
AWG / Conductor redondo cableado

Aislamiento:
Polipropileno
Caucho de etileno propileno (EPDM)

Annadura:
Acero galvanizado (una 0 dos capas)
Acero galvanizado para trabajo pesado
Acero Inmtidable

Configuracion del Cable:
ESP-R: Redondo
ESP-F: Plano

Chaqueta:
Polietileno de alta densldad (HDPE)
Caucho de etiteno propiteno (EPDM)
Nitrito
Polipropileno

Voltaje Nominal:
3, 4, 5, 8, kV

ALTERNATIVE CONSTRUCTIONS
NOMENCLATURE

Conductor:
AWG / Solid round conductor
AWG / Stranded round conductor

Insulation:
Polypropylene
Ethylene propylene dlene (EPDM)

Armor:
Galvanized steel (one or two layers)
Heavy galvanized steel
Stainless steel

Cable Configuration:
ESP-R: Round
ESP-F: Flat

Jacket:
High density polyethylene (HOPE)
Ethylene propylene diene (EPDM)
Nitrile
Polypropylene

Voltage Rating:
3, 4, 5, 8, kV

SUBMERSIBLE PUMPS POWER CABLES 250° F

CONSTRUCCIONES ALTERNATIVAS
NOMENCLATURA

Conductor:
AWG / Conductor redondo sólido
AWG / Conductor redondo cableado

Aislamiento:
Polipropileno
Caucho de etileno propileno (EPDM)

Annadura:
Acero galvanizado (una 0 dos capas)
Acero galvanizado para trabajo pesado
Acero Inmtidable
Monel®

Configuracion del Cable:
ESP-R: Redondo
ESP-F: Plano

Barrera:
Barrera contra la cinta de petróleo y productos químicos
Reinforment nylon trenzado

Chaqueta:
Polietileno de alta densldad (HDPE)
Caucho de etiteno propiteno (EPDM)
Nitrito
Polipropileno

Voltaje Nominal:
3, 4, 5, 8, kV

ALTERNATIVE CONSTRUCTIONS
NOMENCLATURE

Conductor:
AWG / Solid round conductor
AWG / Stranded round conductor

Insulation:
Polypropylene
Ethylene propylene dlene (EPDM)

Armor:
Galvanized steel (one or two layers)
Heavy galvanized steel
Stainless steel
Monel®

Cable Configuration:
ESP-R: Round
ESP-F: Flat

Barrier:
Barrier tape against oil and chemicals
Reinforment nylon braid

Jacket:
High density polyethylene (HOPE)
Ethylene propylene diene (EPDM)
Nitrile
Polypropylene

Voltage Rating:
3, 4, 5, 8, kV

SUBMERSIBLE PUMPS POWER CABLES 250° F

APLICACIONES
Bom sumergibles ehéctricas en:
Bajo y mdeium pozos la temperatura del aceite.
Bajo contenido de gas.
Bajo ambientes corrosivos.

CARACTERÍSTICAS
Configuración: planos y redondos
Temperatura de operación: 205°F [96°C] or 250°F [121°C]
Tensión de operacion: 3 o 5 kV

NORMAS
ASTM 83, Especificación estándar para alambre de cobre blando o recocido.

ASTM B496 Especificoción estándar para conductores cableados concentricos redondos compactos.

ASTM 833, Especificacion esrnndar para alambres estafiados de cobre blando o recocido.

ICEA 5-96-659, Norma para cables no – apantallados con tensión nominal 2001-5000 voltios para uso en distribución de energía eléctrica.

ICEE 1018, La práctica recomendada para la especificación de cables eléctricos de la bomba sumergible - etileno propileno aislamiento de goma.

ICEE 1019, La práctica recomendada para la especificación de cables eléctricos de la bomba sumergible - Aislamiento de polipropileno.

NOTAS
Construcciones opciooales y otras no indicadas,
están disponibles bajo pedido.

APPLICATIONS
Electrical submersible pumps in:
Low and mdeium temperature oil wells.
Low gas content.
Low corrosive environments.

CHARACTERISTICS
Configuration: flat and round
Rated Temperature: 205°F [96°C] or 250°F [121°C]
Rated Voltage: 3 or 5 kV

STANDARDS
ASTM 83, Standard specifi cation for soft or annealed copper wire.

ASTM 8496 Standard specification for compact round concentric lay - stranded copper conductors.

ASTM B33, Standard specification for tinned soft or annealed copper wires.

ICEA 5-96-659, Standard for nonshielded cables rated 2001 - 5000 Volts lor use in the distribution of electric energy.

ICEE 1018, Recommended practice for specifying electric submersible pump cables – Ethylene propylene rubber insulation.

ICEE 1019, Recommended practice for specifying electric submersible pump cables – Polypropylene insulation.

NOTES
Optional constructions and other technical conditions
different to the indicated are available upon request.

250°F/96°C Round Electrical Submersible Pump Cable PP/NBR

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
3kV ROUND PP/NBR G3R	1	7	7.8	0.301	11.60	0.457	29.0	1.14	34.8	1.37	2611	1.75
	2	7	6.8	0.268	10.77	0.424	27.5	1.07	33.0	1.30	2261	1.52
	4	1	5.2	0.204	9.15	0.360	23.8	0.94	29.5	1.16	1710	1.15
	6	1	4.1	0.162	8.08	0.318	21.5	0.84	27.2	1.07	1362	0.92
4kV ROUND PP/NBR G4R	1	7	7.8	0.301	11.96	0.471	29.8	1.17	35.5	1.40	2673	1.80
	2	7	6.8	0.268	11.13	0.438	28.0	1.10	33.7	1.33	2320	1.56
	4	1	5.2	0.204	9.51	0.374	24.5	0.97	30.2	1.19	1765	1.19
	6	1	4.1	0.162	8.44	0.332	22.2	0.68	27.9	1.10	1414	0.95
5kV ROUND PP/NBR G4R	1	7	7.8	0.301	12.38	0.487	30.7	1.21	36.4	1.43	2747	1.85
	2	7	6.8	0.268	11.55	0.455	28.9	1.14	34.5	1.35	2991	1.61
	4	1	5.2	0.204	9.93	0.391	25.4	1.00	31.2	1.23	1830	1.23
	6	1	4.1	0.162	8.86	0.349	23.1	0.91	28.8	1.03	1476	0.99
	Materials and specifications are subject to change without notice.											

250°F/96°C Flat Electrical Submersible Pump Cable PP/NBR

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
3kV FLAT PP/NBR G3R	1	7	7.6	0.301	11.60	0.457	14.1	0.56	19.7x51.1	0.76x2.01	2529	1.70
	2	7	6.8	0.268	10.77	0.424	13.3	0.52	18.8x48.6	0.74x1.91	2214	1.49
	4	1	5.2	0.204	9.15	0.360	11.7	0.46	17.3x43.8	0.68x1.72	1723	1.16
	6	1	4.1	0.162	8.08	0.318	10.6	0.42	14.0x35.2	0.55x1.39	1384	0.93
4kV FLAT PP/NBR T.BRAID G4R	1	7	7.6	0.301	11.96	0.471	14.5	0.57	18.8x48.4	0.74x1.91	2615	1.76
	2	7	6.8	0.268	11.13	0.438	13.7	0.54	18.0x45.9	0.71x1.81	2298	1.54
	4	1	5.2	0.204	9.51	0.374	12.1	0.47	16.4x47.0	0.65x1.51	1804	1.21
	6	1	4.1	0.162	8.44	0.332	11.0	0.43	14.8x37.8	0.56x1.49	1463	0.98
5kV FLAT PP/NBR T.BRAID G4R	1	7	7.6	0.301	12.38	0.487	14.9.7	0.59	19.2x49.6	0.76x1.95	2671	1.79
	2	7	6.8	0.268	11.55	0.455	14.1	0.55	18.4x47.	0.72x1.85	2352	1.58
	4	1	5.2	0.204	9.93	0.391	12.5	0.49	16.8x42.3	0.66x1.67	1855	1.25
	6	1	4.1	0.162	8.86	0.348	11.4	0.45	15.3x39.	0.60x1.54	1512	1.02
	Materials and specifications are subject to change without notice.											

250°F/121°C Round Electrical Submersible Pump Cable EPDM

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
3kV ROUND EPDM/ EPDM G3R	1	7	7.6	0.301	11.60	0.457	29.0	1.14	34.8	1.37	2594	1.74
	2	7	6.8	0.268	10.77	0.424	27.3	1.07	33.0	1.30	2248	1.51
	4	1	5.2	0.204	9.15	0.360	23.8	0.94	29.5	1.16	1700	1.14
	6	1	4.1	0.162	8.08	0.318	21.5	0.84	27.2	1.07	1853	0.91
4kV ROUND EPDM/ EPDM G4R	1	7	7.6	0.301	11.96	0.471	29.8	1.17	35.5	1.40	2659	1.79
	2	7	6.6	0.268	11.13	0.438	28.0	1.10	33.7	1.33	2309	1.55
	4	1	5.2	0.204	9.51	0.374	24.5	0.97	30.2	1.19	1757	1.15
	6	1	4.1	0.162	8.44	0.332	22.2	0.86	27.9	1.10	1408	0.95
5kV ROUND EPDM/ EPDM G4R	1	7	7.6	0.301	12.38	0.487	30.7	1.21	36.4	1.43	2783	1.84
	2	7	6.8	0.268	11.55	0.455	28.9	1.14	34.8	1.36	2884	1.65
	4	1	5.2	0.204	9.93	0.391	25.4	1.00	31.2	1.23	1826	1.23
	6	1	4.1	0.162	8.86	0.349	23.1	0.91	28.8	1.13	1472	0.99

Materials and specifications are subject to change without notice.

250°F/121°C Flat Electrical Submersible Pump Cable EPDM

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
4kV FLAT EPDM G3R	1	7	7.6	0.301	11.96	0.471	14.5	0.57	18.1x16.7	713x1839	2615	1.75
	2	7	6.8	0.268	11.13	0.438	13.7	0.54	17.3x14.2	681x1740	2296	1.54
	4	1	5.2	0.204	9.51	0.374	12.1	0.47	15.7x9.4	618x1561	1804	1.21
	6	1	4.1	0.162	8.44	0.332	11.0	0.43	14.2x36.2	559x1425	1463	0.68
5kV FLAT EPDM T.BRAID G4R	1	7	7.6	0.301	12.38	0.487	14.9	0.50	17.5x48.3	680x1602	2671	1.79
	2	7	6.8	0.268	11.55	0.455	14.1	0.55	16.8x45.8	654x1603	2352	1.58
	4	1	5.2	0.204	9.93	0.391	12.5	0.49	15x40.9	591x1610	1855	1.25
	6	1	4.1	0.162	8.86	0.349	11.4	0.45	13.9x37.7	547x1484	1512	1.02

Materials and specifications are subject to change without notice.

SUBMERSIBLE PUMPS POWER CABLES 400° F

APLICACIONES
60mbas sumergibles electricas en:
Pozos de petroleo con temperatura media O elevada.
Contenido de gas moderado.
Ambientes con nivel bajo de corrosion.

CARACTERÍSTICAS
Configuración: planos y redondos
Temperatura de operación: 400°F [204°C]
Tensión de operacion: 3 ó 5 kV

APPLICATIONS
Electrical submersible pumps in:
Low and mdeium temperature oil wells.
Moderate gas content.
Low corrosive environments.

CHARACTERISTICS
Configuration: flat and round
Rated Temperature: 400°F [204°C]
Rated Voltage: 3 or 5 kV

NORMAS
ASTM 63, Especificacion estándar para alambre de cobre blando recocido.

ASTM B496 Especificacion estándar para conductores cableados concentricos redondos compactos.

ASTM 633, Especificacion estándar para alambres estanados de cobre blando recocido.

ICEA S- 96- 659, Norma para cables no-apantallados con tensión nominal 2001 - 5000 voltios para uso en distribucion de energia eléctrica.

IEEE 1018 Practicas recomendadas para la especificacion de cables para bombas sumergibles - Aislamiento en caucho de etlleno propileno.

IEEE 1019 Practicas recomendadas para la especificación de cables para bombas sumergibles - Aislamiento de polipropileno.

NOTAS
Construcciones opcioоales y otras no indicadas, están disponibles bajo pedido.

STANDARDS
ASTM 63, Standard specification for soft annealed copper wire.

ASTM 6496 Standard specification for compact round concentric lay - stranded copper conductors.

ASTM 633, Standard specification for tinned soft annealed copper wires.

ICEA S-96- 659, Standard for nonshielded cables rated 2001- 5000 Volts for use in the distribution of electric energy.

IEEE 1018 Recommended practce for specifying electric submersible pump cables - Ethylene propylene rubber insulation.

IEEE 1019 Recommended practice for specifying electric submersible

NOTES
Optional constructions and other technical conditions different to the indicated are available upon request.

SUBMERSIBLE PUMPS POWER CABLES 400° F

CONSTRUCCIONES ALTERNATIVAS
NOMENCLATURA

Conductor:
AWG / Conductor redondo sólido
AWG / Conductor redondo cableado
Conductor de cobre eslañado

Aislamiento:
Polipropileno
Caucho de etileno propileno (EPDM)

Annadura:
Acero galvanizado (una o dos capas)
Acero galvanizado para trabajo pesado
Acero inoxidable
Monel®

Configuracion del Cable:
ESP-R: Redondo
ESP-F: Plano

Barrera:
Cinla de barrera iT Brand) contra petroleo y productos quimicos
Refuerzo de malla de nylon

Chaqueta:
Polielileno de alla densidad (HOPE)
Caucho de elileno propileno (EPOM)
Nilrilo
Polipropileno

Voltaje Nominal:
3, 4, 5, 8, kV

ALTERNATIVE CONSTRUCTIONS
NOMENCLATURE

Conductor:
AWG / Solid round conductor
AWG / Stranded round conductor
Tinned copper conductor

Insulation:
Polypropylene
Ethylene propylene dlene (EPDM)

Armor:
Galvanized steel (one or two layers)
Heavy galvanized steel
Stainless steel
Monel®

Cable Configuration:
ESP-R: Round
ESP-F: Flat

Barrier:
Barrier tape against oil and chemicals
Reinforcement nylon braid

Jacket:
High density polyethylene (HOPE)
Ethylene propylene diene (EPDM)
Nitrile
Polypropylene

Voltage Rating:
3, 4, 5, 8 kV

400°F/204°C Round Electrical Submersible Pump Cable EPDM

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
4kV ROUND EPDM/T. BRAND G5R	1	7	7.6	0.301	11.96	0.471	30.9	1.22	36.6	1.44	2713	1.82
	2	7	6.8	0.268	11.13	0.438	29.1	1.15	34.8	1.37	2358	1.58
	4	1	5.2	0.204	9.51	0.374	25.6	1.01	31.3	1.23	1785	1.20
	6	1	4.1	0.162	8.44	0.332	23.3	0.92	29.0	1.14	1437	0.97
5kV ROUND EPDM T.BRAND G5R	1	7	7.6	0.301	12.38	0.487	30.7	1.21	36.4	1.43	2733	1.84
	2	7	6.6	0.268	11.55	0.455	28.9	1.14	34.6	1.36	2376	1.60
	4	1	5.2	0.204	9.93	0.391	25.4	1.00	31.2	1.23	1800	1.21
	6	1	4.1	0.162	8.86	0.349	23.1	0.91	28.8	1.13	1450	0.97
5kV ROUND EPDM T.BRAND G5R	1	7	7.6	0.301	12.38	0.487	31.8	1.25	37.5	1.48	2788	1.87
	2	7	6.8	0.268	11.55	0.455	30.0	1.18	35.7	1.41	2430	1.63
	4	1	5.2	0.204	9.93	0.391	26.5	1.04	32.2	1.27	1852	1.24
	6	1	4.1	0.162	8.86	0.349	24.2	0.95	29.9	1.18	1500	1.01
	Materials and specifications are subject to change without notice.											

400°F/204°C Flat Electrical Submersible Pump Cable EPDM

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
4kV FLAT EPDM T.BRAND G5R	1	7	7.6	0.301	11.96	0.471	14.5	0.57	17.0x47.0	669x1850	2467	1.66
	2	7	6.8	0.268	11.13	0.438	13.7	0.54	16.2x44.5	638x1752	2155	1.45
	4	1	5.2	0.204	9.51	0.374	12.1	0.47	14.6x39.7	575x1563	1643	1.10
	6	1	4.1	0.162	8.44	0.332	11.0	0.43	13.5x36.5	531x1437	1330	0.89
5kV FLAT EPDM T.BRAID G5R	1	7	7.6	0.301	12.38	0.487	14.9	0.59	17.5x48.3	689x1902	2534	1.70
	2	7	6.8	0.268	11.55	0.455	14.1	0.55	16.6x45.8	654x1803	2211	1.49
	4	1	5.2	0.204	9.93	0.391	12.5	0.49	15x40.9	591x1610	1695	1.14
	6	1	4.1	0.162	8.86	0.349	11.4	0.45	13.9x37.7	547x1484	1380	0.93
	Materials and specifications are subject to change without notice.											

SUBMERSIBLE PUMPS POWER CABLES 400° F

-60°F/250°C Flat Electrical Submersible Pump Cable EPDM

Description	Cond. Size	Wires	Conductor Diameter		Insulatron Diameter		Jacket Diameter		Overall Dimensions		Approx. Welght	
	AWG	No.	mm	inch	mm	inch	mm	inch	mm	inch	kg/km	lb/ft
5kV FLAT	2/0	7	10.2	0.402	2.30	0.09	18.9	0744	21.7x61.0	0.85x2.40	4130	2.78
	Materials and specifications are subject to change without notice.											

APLICACIONES
Bombas sumergibles eléctricas en: Pozos de petróleo con temperaturas bajas hasta -60°F y medias hasta 250°F.
Contenido de gas moderado.
Ambientes con nivel bajo de corrosion.

CARACTERÍSTICAS
Temperatura de operación: -60°F I 250°F (-51°C / 121 °C)
Tensión de operacion: 5 kV
Otros Calibres: Bajo pedido

NORMAS
ASTM B3, Especificacion estándar para alambre de cobre blando o recocido.

ASTM B496 Especificacion estándar para conductores cableados concéntricos redondos compactos.

ICEA S- 96- 659, Norma para cables no apantallados con tensión nominal 2001 - 5000 voltios para uso en distribucion de energia elllk trica.

IEEE 1018 Practicas recomendadas para la especificación de cables para bombas sumergibles Aislamiento en caucho de etileno propilemo.

NOTAS
Construcciones opcioooales y otras no indicadas, stán disponibles bajo pedido.

APPLICATIONS
Electrical submersible pumps in: Low temperatures up to -60°F and medium temperature up to 250°F.
Moderate gas content.
Low corrosives environments.

CHARACTERISTICS
Rated Temperature: -60°F / 250°F (-51 °C / 121°C)
Rated Voltage: 5 kV
Other sizes: Upon request

STANDARDS
ASTM 83, Standard specification for soft or annealed copper wire.

ASTM 8496 Standard specification for compact round concentric lay - stranded copper conductors.

ICEA S- 96- 659, Standard for nonshielded cables rated 2001 - 5000 Volts for use in the Distribution of Electric Energy.

IEEE 1018 Recommended practice for specifying electric submersible pump cable - Ethylene propylene rubber insulation

NOTES
Optional constructions and other technical conditions different to the indicated are available upon request.