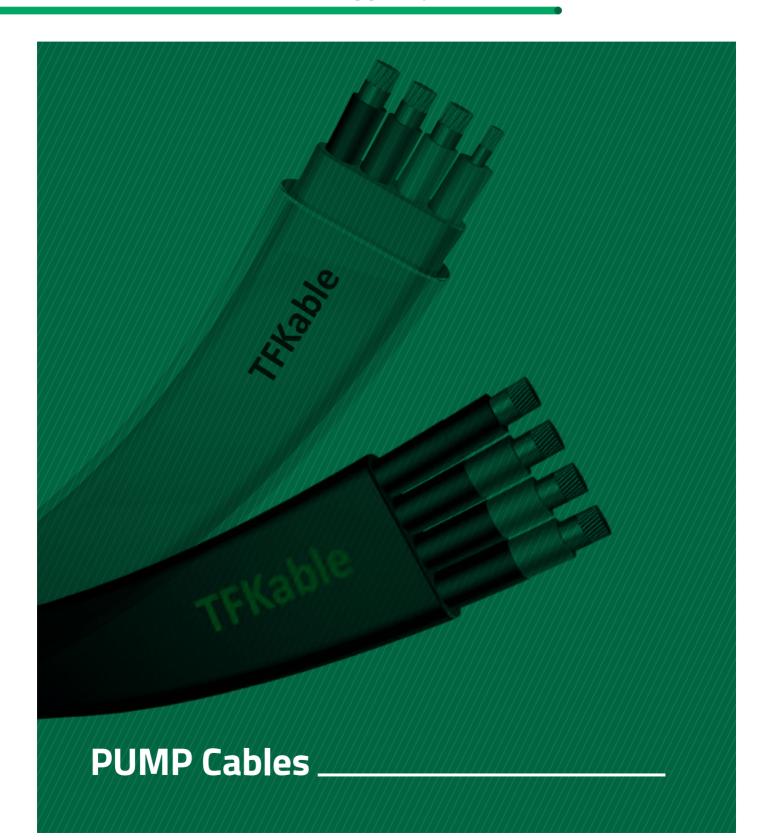


Connecting globally ——

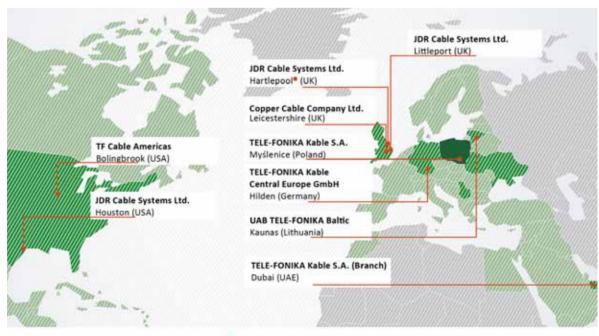


TELE-FONIKA Kable

TELE-FONIKA Kable S A, a privately held wire and cable manufacturer headquartered in Krakow, Poland, is one of the largest wire and cable companies in the world. TF operates 8 plants in Central and Eastern Europe with a distribution network stretching 90 countries. Formed through a series of acquisitions and mergers, TFKable has developed world-class technology centers of excellence with state of the art manufacturing operations. Founded in 1992, TFKable grew rapidly and the operations today are a result of internal development projects supported by strategic investments.

TF is the leading medium and high voltage cable manufacturer in Europe with significant market share in rubber insulated portable power cables used by HEAVY INDUSTRY & MINING. Additionally, the company manufactures products for the TELECOMMUNICATION, SHIP BUILDING, ELECTRONIC and ENERGY sectors.

All manufacturing facilities are ISO 9001, ISO 2000, and ISO 14001 certified. All products are manufactured to public, utility and industrial standards including ICEA, IEEE, and ASTM. TELE-FONIKA has over 400 individual certificates issued by more than 30 governing bodies which include UL, CSA, MSHA, SABS, VDE, CE, etc.



JDR Cable Systems Ltd. (Sales Representative) United States, UK

TELE-FONIKA Cable Americas

TELE-FONIKA Cable AMERICAS (TF Kable) is a US firm with corporate offices and main facility located in Bolingbrook, IL and is a wholly owned subsidiary of TELE-FONIKA Kable SA. TELE-FONIKA, one of the largest manufacturers of wire and cable in the world, is a fully integrated manufacturer recognized by the industry as a world class producer of quality wire and cable products. The company specializes in electrical wire and cable for MINING, HEAVY INDUSTRY, UTILITY and ENERGY applications utilizing materials to meet strict mechanical and electrical performance requirements.

TELE-FONIKA Kable GROUP KEY STATISTICS

- 1 billion USD in annual turnover
- 3rd largest wire and cable supplier in Europe and one of the TOP global producers
- No. 1 European POWER CABLE SUPPLIER
- 3000 Group Employees
- 15 Global Facilities
- 25,000 Different types of wire and cable constructions
- Sales & Distribution network stretching 90 countries

TFKable is the submersible pump power solution



Flat Submersible Pump Cable

ICEA S-75-381/NEMA WC-58, ASTM B3 -

CONSTRUCTION

Conductors	Annealed flexible stranded bare copper in accordance with ASTM B-172 and ICEA S-75-381
Separator	A suitable tape separator between the conductor and insulation. The wrap of polyester tape over insulation
Insulation	Ethylene-propylene rubber (EPR)
Circuit identification	Colour coding of power conductors shall be black ,yellow, red
Grounding conductor	Annealed bare copper acc. Tab. 3-12 of ICEA S-75-381 Colour insulation: green-yellow
Assembly	Three power or three power + ground shall be laid parallel
Internal layer of jacket	A blue CPE thermosetting compound , heavy duty in accordance with par. 3.21 of ICEA S-75-381
Outer layer of jacket	A clear, abrasion resistant TPU (Polyurethane) jacket



Conductor Size	Power Conductor Stranding	Nominal Thickness of Insulation	Nominal Thickness of Internal Jacket	Thickness of	Approx. Dimensions	Approx. weight	
Cores number x AWG	nb x inch	Inches	Inches	Inches	Inches	Lbs. per	kg/km
3 x 6AWG	259 x 0.01	0.047	0.045	0.045	1.12 x 0.51	503	749
3 x 4AWG	412 x 0.01	0.047	0.045	0.045	1.2 x 0.54	674	1004
3 x 2AWG	636 x 0.01	0.047	0.045	0.060	1.43 x 0.62	970	1446
3 x 2/0AWG	1261 x 0.01	0.055	0.060	0.060	1.94 x 0.81	1856	2766
3 x 4/0AWG	2007 x 0.01	0.055	0.060	0.060	2.85 x 0.88	3417	5085
3 x 2AWG + 5AWG	636 x 0.01/340 x 0.01	0.045	0.045	0.060	1.77 x .060	1236	1840
3 x 1/0AWG + 3AWG	1056 x 0.01/525 x0.01	0.055	0.060	0.060	2.17 x 0.72	1922	2860
3 x 2/0AWG + 2AWG	1261 x 0.01/636 x0.01	0.055	0.060	0.060	2.39 x 0.77	2302	3425
3 x 4/0AWG + 1/0AWG	2007 x 0.01/1056 x0.01	0.055	0.060	0.060	2.85 x 0.88	3417	5085



Pump Cable Rubber Jacketed

ICEA S-75-381/NEMA WC-58, ASTM B3 ————

CONSTRUCTION

Conductors	Annealed flexible stranded bare copper in accordance with ASTM B-172 and ICEA S-75-381
Separator	A suitable tape separator between the conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Circuit identification	Color coding of power conductors shall be black, red, yellow
Grounding conductor	Annealed bare copper as per Tab. 3-12 of ICEA S-75-381 Insulation color: green-yellow
Assembly	Three power and grounding conductor cabled together with rubber fillers Single faced rubber filled binder tape applied overall
Jacket	A CPE thermosetting compound, heavy duty in accordance with par. 3.21 of ICEA S-75-381
Color of jacket	Black; Other colors available



APPROVALS

UL	E193954
MSHA	P-07-KA060001

Conductor Size	Power Conductor Stranding	Grounding Conductor	Nominal Thickness of Insulation	Approx. O.D.	Approx. Weight	Ampacity (1) 40°C Ambient Temp.
Cores number x AWG	nb x inch	nb x inche	Inches	Inches	lbs./1000ft	A
3 x 8AWG + 10AWG	166x0.01	104x0.01	0.06	1.01		
3 x 6AWG + 8AWG	259x0.01	166x0.01	0.06	1.10	758	
3 x 4AWG + 7AWG	412x0.01	210x0.01	0.06	1.14	929	93
3 x 2AWG + 5AWG	259x0.02	340x0.01	0.06	1.27	1283	106
3 x 1AWG + 4AWG	322x0.02	412x0.01	0.08	1.48	1703	143
3 x 1/0AWG + 3AWG	414x0.02	525x0.01	0.08	1.61	2064	 165
3 x 2/0AWG + 2AWG	522x0.02	259x0.02	0.08	1.72	2468	
3 x 3/0AWG + 1AWG	658x0.02	332x0.02	0.08	1.88	3003	221
3 x 4/0AWG + 2/0AWG	829x0.02	522x0.02	0.08	2.03	3697	
3 x 250MCM + 2/0AWG	973x0.02	522x0.02	0.095	2.53	4935	280
3 x 350MCM + 3/0AWG	1361x0.02	658x0.02	0.095	2.78	6335	335
3 x 500MCM + 250AWG	1921x0.02	973x0.02	0.095	3.22	8688	



Flat Pump Cable With Ground 600V/2000V

UL 44, ICEA S-75-381/NEMA WC-58, ASTM B3

CONSTRUCTION

Conductors	Annealed flexible stranded bare copper in accordance with UL 44
Separator	A suitable tape separator between the conductor and insulation
Insulation	Ethylene-propylene rubber (EPR) as per clause 7.2.4 of UL 44 + rubber filled binder tape
Circuit identification	Color coding of power conductors shall be black, red, yellow
Grounding conductor	Annealed bare copper as per clause 4.1.4.3 of UL 44. Insulation color: green-yellow
Assembly	Three power and grounding conductor laid parallel Rubber binder tape separator applied over each conductor
Jacket	Black heavy duty CPE thermoset compound, ICEA S-75-381 sec. 3.21 and clause 7.2.6 of UL 44



APPROVALS

UL	E193954
MSHA	P-07-KA060001

Conductor Size	Power Conductor Stranding	Nominal Thickness of Insulation	Approx. Dimensions	Approx. Weight	Ampacity (1) 40°C Ambient Temp.
Cores number x AWG	nb x inch	Inches	Inches	bs./1000ft	А
3 x 6AWG + 8AWG	259 x 0.01	0.06	1.66 x 0.60	8089	72
3 x 4AWG + 6AWG	412 x 0.01	0.06	1.83 x 0.67	1087	93
3 x 2AWG + 5AWG	259 x 0.016	0.06	2.04 x 0.72	1423	122
3 x 1AWG + 4AWG	332 x 0.016	0.08	2.35 x 0.82	1872	146
3 x 1/0AWG + 3AWG	414 x 0.016	0.08	2.52 x 0.87	2220	165
3 x 2/0AWG + 2AWG	522 x 0.016	0.08	2.64 x 0.85	2648	192
3 x 4/0AWG + 1/0AWG	829 x 0.016	0.08	3.39 x 1.14	4047	255
3 x 250MCM + 2/0AWG	973 x 0.016	0.095	3.85 x 1.34	5137	280
3 x 350MCM + 3/0AWG	1361 x 0.016	0.095	4.22 x 1.41	6425	335
3 x 500MCM + 250MCM	1921 x 0.016	0.095	4.84 x 1.56	8527	395



Flat Pump Cable With Ground 3/c 600V/2kV

UL 44, ICEA S-75-381/NEMA WC-58, ASTM B3

CONSTRUCTION

Conductors	Annealed flexible stranded bare copper in accordance with UL 44
Separator	A suitable tape separator between the conductor and insulation
Insulation	Ethylene-propylene rubber (EPR) as per clause 7.2.4 of UL 44 + faced rubber filled binder tape
Circuit identification	Color coding of power conductors shall be black, red, yellow
Assembly	Three power and grounding conductor laid parallel Rubber binder tape separator applied over each conductor
Jacket	A CPE thermosetting compound, heavy duty conductors in accordance with Par. 3.21 of ICEA S-75-381 and clause 7.2.6 of UL 44; Neoprene® optional jacket available



APPROVALS

UL	E193954
MSHA	P-07-KA060001

Conductor Size	Power Conductor Stranding	Nominal Thickness of Insulation	Approx. Dimensions	Approx. Weight	Ampacity (1) 40°C Ambient Temp.
Cores number x AWG	nb x inch	Inches	Inches	bs./1000ft	A
3 x 6AWG	259 x 0.01	0.06	1.26 x 0.57	<u></u> 599	72
3 x 4AWG	412 x 0.01	0.06	1.41 x 0.64	837	93
3 x 2AWG	259 x 0.016	0.06	1.62 x 0.72	1163	122
3 x 1AWG	322 x 0.016	0.08	1.91 x 0.84	1557	143
3 x 1/0AWG	414 x 0.016	0.08	2.04 x 0.88	1832	165
3 x 2/0AWG	522 x 0.016	0.08	2.18 x 0.94	2145	192
3 x 4/0AWG	829 x 0.016	0.08	2.56 x 1.08	3128	255
3 x 250MCM	973 x 0.016	0.095	2.82 x 1.19	3778	280
3 x 350MCM	1361 x 0.016	0.095	3.18 x 1.33	4955	335
3 x 500MCM	1921 x 0.016	0.095	3.77 x 1.55	6846	- 395



Features

- Excellent flexibility
- Oil and heat resistant
- Rated and flexible at -40°C to 90°C
- Suitable for shallow water immersion
- Water, ozone, sun, weather and flame resistant



Approvals & Applications

UL: E193954

MSHA: P-07-KA060001

- For use in salt water well applications
- For supplying power to pumps
- Other industrial applications



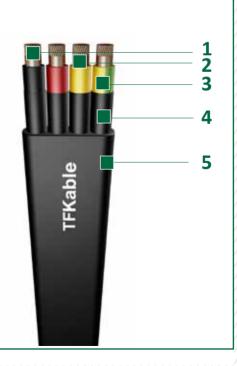


Standard Construction

- 1. CONDUCTOR Annealed flexible stranded bare copper to UL 44 and ASTM B3
- 2. SEPARATOR A suitable tape separator between the conductor and insulation
- 3. INSULATION Ethylene-propylene rubber (EPR)
- 4. GROUNDING CONDUCTOR Annealed flexible stranded bare copper to UL 44 and ASTM B3 Colour
- 5. ASSEMBLY Three power and grounding conductor laid parallel, polyester tape applied over each conductor
- 6. INTERNAL LAYER OF JACKET A blue CPE thermosetting compound, heavy duty in accordance with par. 3.21 of ICEA S-75-381
- 7. OUTER LAYER OF JACKET A clear, abrasion resistant TPU (Polyurethane) jacket



- 1. CONDUCTOR Annealed flexible stranded bare copper to UL 44 and ASTM B3
- 2. SEPARATOR A suitable tape separator between the conductor and insulation
- 3. INSULATION Ethylene-propylene rubber (EPR) as per clause 7.2.4 of UL 44
 + rubber filled binder tape
- 4. ASSEMBLY Three power and grounding conductor laid parallel Rubber binder tape separator applied over each conductor
- 5. JACKET Black heavy duty CPE thermoset compound, ICEA S-75-381 sec. 3.21 and clause 7.2.6 of UL 44





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