



OIL SOLUTIONS

[HOME](#)

[ABOUT US](#)

[SHOP](#)

[CONTACT US](#)

[INVENTORY](#)

# OIL SOLUTIONS CORP.

*The American Core,  
Powered by Us<sup>®</sup>*



# **ABOUT US**



## **Oil Solutions Corp.**

We offer ESP (Electric Submersible Pump) downhole cable specifically designed for oil wells across the great state of Texas. At Oil Solutions Corp, we take pride in delivering high-quality ESP cable tailored for the needs of the oil industry.

## **Our Location and Services**

Strategically located in Houston, our skilled team is dedicated to meeting your needs across the State. Whether you require just a single foot of ESP cable or an entire reel, we are committed to providing fast, dependable, and cost-effective cable solutions for your operations.



*The American Core, Powered by Us<sup>®</sup>*



**SHOP**

## **ESP Cables**

Cable can be ordered either on a well-by-well basis or in bulk for additional savings. We provide flexible ordering options to align with your requirements, guaranteeing you the best value for your investments. Select the method that suits you best and take advantage of our competitive pricing.

**CHECK OUR INVENTORY**





**OIL SOLUTIONS**  
— CORPORATION —

[www.oilsolutionscorp.com](http://www.oilsolutionscorp.com)

## CONTACT US

24285 Katy Freeway  
Frontage Rd  
Suite 300  
Katy, TX 77494  
United States  
T 832 757 6934

[sales@oilsolutionscorp.com](mailto:sales@oilsolutionscorp.com)

# IN - STOCK

Houston, Tx



OIL SOLUTIONS  
CORPORATION

## CURRENT INVENTORY AVAILABLE READY PRODUCTS SEPTEMBER 2025

| UNITS<br>(REELS) | PRODUCT DESCRIPTION                                                    | AVAILABILITY                   |
|------------------|------------------------------------------------------------------------|--------------------------------|
| 18               | <u>4 AWG 5 KW CELF FLAT ESP DOWNHOLE CABLE</u><br>(10,000 FT PER REEL) | "READY TO SHIP" FOB HOUSTON TX |

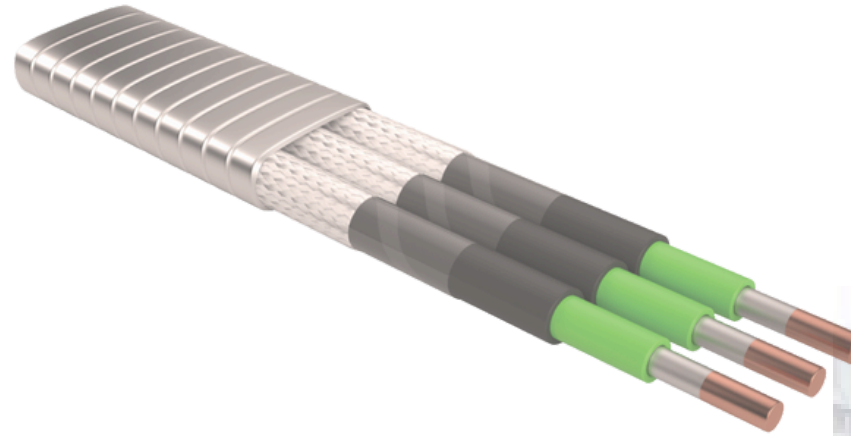
\*\* CLICK ON THE DESCRIPTION FOR THE SPEC SHEET

\*\*UPDATED ON A DAILY BASIS

\*\*QUANTITIES MAY CHANGE WITHOUT PRIOR NOTICE

\*\* FOR WHOLESALE ORDERS PLEASE CONTACT OUR TEAM MEMBERS

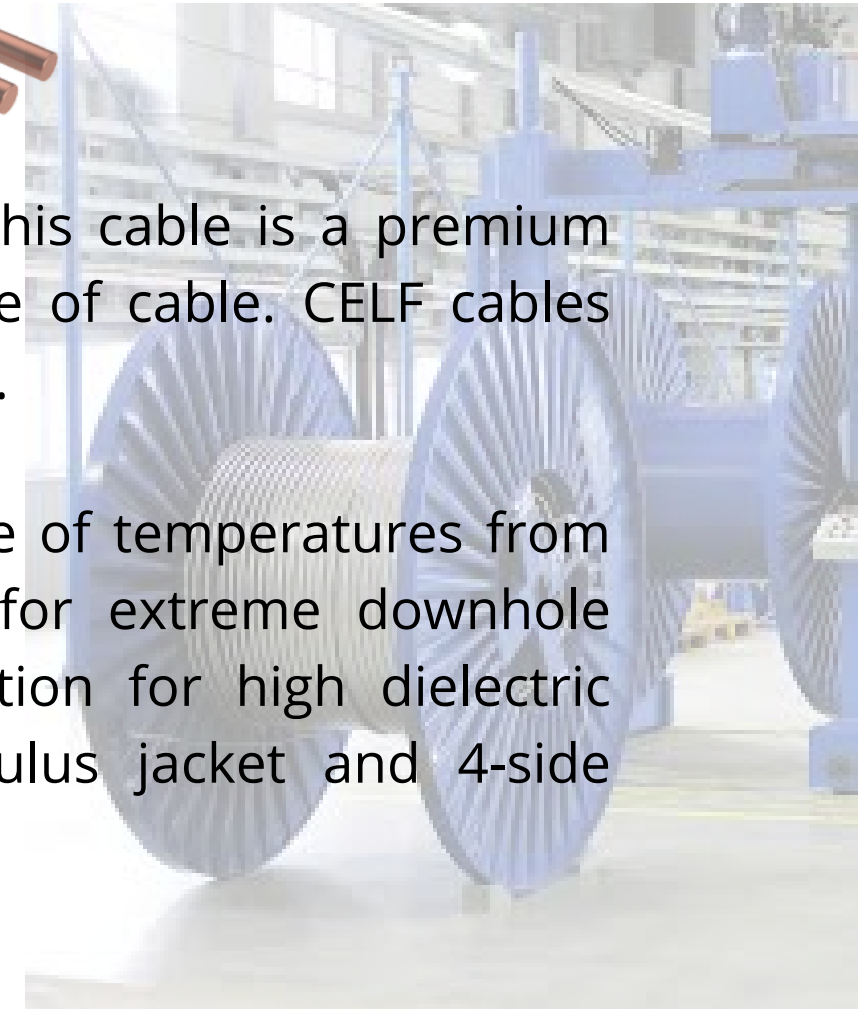
## **CELF CABLE (Cuprum EPDM Lead Flat)**



CELF Cable is the industry standard of reliability and durability. This cable is a premium quality product. It guarantees to operators ZERO failures because of cable. CELF cables enable to use ESP systems in the most difficult downhole conditions.

CELF (Cuprum EPDM Lead Flat) cable is applicable in a wide range of temperatures from -40°F (-40°C) to 450°F (232°C). CELF cable is the best choice for extreme downhole conditions, featuring a special oil-resistant EPDM rubber insulation for high dielectric strength and excellent decompression resistance. A high modulus jacket and 4-side galvanized steel armor offer final layers of protection.

**[CLICK FOR PART 2](#)**



## FEATURES AND BENEFITS

- Lead covering – reliable operations in severe levels of high amount of H<sub>2</sub>S and greater than 90% of CO<sub>2</sub>
- CEL: High temperature cable – reliable operations in hot wells
- Solid copper conductors – prevents gas migration in the cable and increases clearance in the well
- Armored capillary line cable – allows for pressure measurement, chemical insertion, and diluent insertion
- Armored steel galvanized, stainless steel or Monel alloy
- CES-507 STANDARD SPECIFICATION FOR CEL TYPE CABLE
- 100% SURFACES of the cables are controlled by AI QUALITY INSPECTION Machines

**[CLICK FOR PART 3](#)**





OIL SOLUTIONS  
CORPORATION

## TECHNICAL CHARACTERISTICS (NOMINAL VOLTAGE 5 KW)

| Well parameters                                                   | Conventional design | Anti corrosion design |
|-------------------------------------------------------------------|---------------------|-----------------------|
| pH                                                                | 5 - 8,5             |                       |
| Maximum concentration of solids, % / ppm                          | 0,1 / 1             |                       |
| Maximum microhardness of particles, Mohs scale                    | 7                   |                       |
| Maximum water cut %                                               | No limits - 100%    |                       |
| Maximum GOR %                                                     | No limits           |                       |
| Maximum hidrostatic pressure, PSI                                 | 5800 PSI            |                       |
| Maximum concentration of H <sub>2</sub> S %/ppm                   | 0,001 / 0,01        | 0,125 / 1,25          |
| Maximum concentration of CO <sub>2</sub> %/ppm                    | -                   | 0,115 / 1,15          |
| Maximum concentration of Cl <sup>-</sup> %/ppm                    | -                   | 7,5 / 75              |
| Maximum concentration of HCO <sub>3</sub> %/ppm                   | -                   | 0,1 / 1               |
| Maximum concentration of Ca <sup>+2</sup> %/ppm                   | -                   | 0,9 / 9               |
| Maximum concentration of (Na <sup>+</sup> +K <sup>+</sup> ) %/ppm | -                   | 4,0 / 40              |

**[CLICK FOR PART 4](#)**



# TECHNICAL CHARACTERISTICS (NOMINAL VOLTAGE 5 KW)

| Technical characteristics                   | 10 mm         | 6 AWG         | 16 mm         | 4 AWG         | 25 mm         | 2 AWG         | 1 AWG         |
|---------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Conductor diameter: Nominal                 | 10            | 13,3          | 16            | 21,15         | 25            | 33,6          | 42,4          |
| Nominal ConductorSection, mm                | 3,56          | 4,12          | 4,52          | 5,19          | 5,64          | 6,54          | 7,35          |
| Qty and Conductor diameter, mm <sup>2</sup> | 3x10          | 3x13,3        | 3x16          | 3x21,15       | 3x25          | 3x33,6        | 3x42,4        |
| Nominal voltage                             | 5 kV          | 5 kV          | 5 kV          | 5 kV          | 5 kV          | 5 kV          | 5 kV          |
| Thickness of insulation, nominal, mm        | 1,981         | 1,981         | 1,981         | 1,981         | 1,981         | 1,981         | 1,981         |
| Insulation diameter, nominal (OD), mm       | 7,52          | 8,08          | 8,48          | 9,15          | 9,60          | 10,51         | 11,31         |
| Thickness of jacket, nominal, mm            | 1,067         | 1,067         | 1,067         | 1,067         | 1,067         | 1,067         | 1,067         |
| Jacket diameter nominal (OD), mm            | 9,65          | 10,21         | 10,62         | 11,29         | 11,73         | 12,64         | 13,44         |
| Outer armor dimension, mm                   | 12.46 x 31.83 | 13.02 x 33.51 | 13.43 x 34.73 | 14.10 x 36.73 | 14.55 x 38.08 | 15.45 x 40.79 | 16.26 x 43.21 |
| Nominal weight of 1000 m, kg                | 1833          | 2023          | 2169          | 2428          | 2611          | 3006          | 3388          |
| Current leakage: Hipot to 35 KV DC Max.     | 0,556         | 0,620         | 0,665         | 0,740         | 0,790         | 0,891         | 0,980         |
| Insulation resistance (15,6 C) Min.         | 1797          | 1614          | 1503          | 1351          | 1265          | 1122          | 1020          |
| Conductor D.C. Resistance at 20 C Max.      | 1,736         | 1,296         | 1,074         | 0,815         | 0,690         | 0,513         | 0,407         |
| Adhesion                                    | No limits     |               |               |               |               |               |               |
| GOR                                         | No limits     |               |               |               |               |               |               |

**CLICK FOR PART 5**



**OIL SOLUTIONS**  
CORPORATION

# MAX CURRENT VS TEMPERATURE

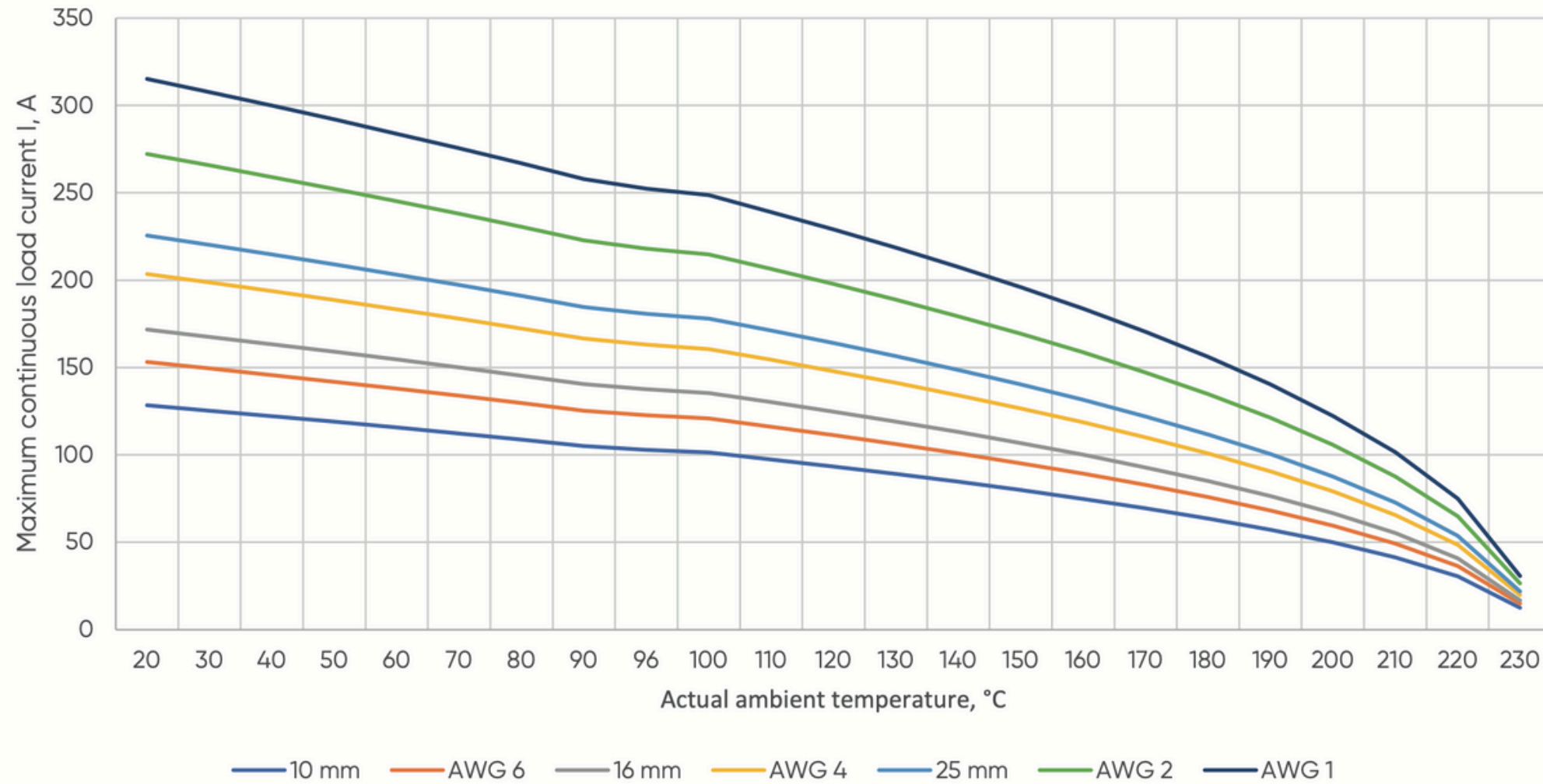
| AWG # | Rated Voltage - 5KV                                                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------|-------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|       | Maximum continuous load current I, A, at actual ambient temperature, °C |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|       | 20                                                                      | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 96  | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 232 |
| 10 mm | 128                                                                     | 125 | 122 | 119 | 116 | 112 | 109 | 105 | 103 | 101 | 97  | 93  | 89  | 85  | 80  | 75  | 69  | 64  | 57  | 50  | 41  | 31  | 12  | 0   |
| AWG 6 | 153                                                                     | 149 | 146 | 142 | 138 | 134 | 130 | 125 | 123 | 121 | 116 | 111 | 106 | 101 | 95  | 89  | 83  | 76  | 68  | 59  | 49  | 36  | 15  | 0   |
| 16 mm | 172                                                                     | 168 | 163 | 159 | 155 | 150 | 145 | 140 | 137 | 135 | 130 | 125 | 119 | 113 | 107 | 100 | 93  | 85  | 76  | 67  | 55  | 41  | 17  | 0   |
| AWG 4 | 204                                                                     | 199 | 194 | 189 | 183 | 178 | 172 | 167 | 163 | 161 | 154 | 148 | 141 | 134 | 127 | 119 | 110 | 101 | 91  | 79  | 66  | 48  | 20  | 0   |
| 25 mm | 226                                                                     | 220 | 215 | 209 | 203 | 197 | 191 | 185 | 181 | 178 | 171 | 164 | 156 | 149 | 140 | 131 | 122 | 112 | 100 | 88  | 73  | 54  | 22  | 0   |
| AWG 2 | 272                                                                     | 266 | 259 | 252 | 245 | 238 | 230 | 223 | 218 | 215 | 206 | 198 | 189 | 179 | 169 | 159 | 147 | 135 | 121 | 106 | 88  | 65  | 26  | 0   |
| AWG 1 | 315                                                                     | 308 | 300 | 292 | 284 | 275 | 267 | 258 | 252 | 249 | 239 | 229 | 219 | 208 | 196 | 184 | 170 | 156 | 140 | 122 | 101 | 75  | 31  | 0   |

**[CLICK FOR PART 6](#)**

# MAX CURRENT VS TEMPERATURE



OIL SOLUTIONS  
CORPORATION



**[CLICK FOR PART 7](#)**



## CAPILLARY TUBE

- Standard dimensions: 3/8" x 0,049"  
(9,525mm x 1,25mm)
- Material: Stainless Steel AISI 316L
- Splice dimensions: 13,9mm x 47mm
- Splice max pressure, up to: 150PSI (10 Bar)

