



OIL-WELL ESP FLAT CABLE

IEEE 1019 / API RP 11S5

24 orderable sizes

STANDARD IEEE 1019 / API RP 11S5	VOLTAGE CLASS 3 kV to 5 kV	TEMPERATURE CLASS 96 °C, 121 °C, 140 °C, 204 °C or well-defined temperature class
CONDUCTOR Flexible copper conductor	INSULATION / JACKET Nitrile rubber, EPDM, lead barrier or metallic armoured jacket	

Construction

- 1** ■ **Conductor (per core)** – Flexible copper conductor · 80 × Ø0.4 mm · IEC 60228 cl.5
- 2** ■ **Core insulation** – PP, EPDM or high-temperature downhole insulation
- 3** ■ **Sheath** – Nitrile rubber, EPDM, lead barrier or metallic armoured jacket

Size selection — all available cross-sections

Cable reference	Pump duty	Water / fluid duty	Cable shape	Core design	Conductor size	Max DC resistance at 20 °C	Dimension guide
ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core flat armoured 10 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core flat armoured	10 mm ²	1.83 Ω/km	39 x 12.7 mm
ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core flat armoured 16 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core flat armoured	16 mm ²	1.15 Ω/km	43 x 14.0 mm
ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core flat armoured 25 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core flat armoured	25 mm ²	0.727 Ω/km	49 x 15.5 mm

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ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core flat armoured 35 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core flat armoured	35 mm ²	0.524 Ω/km	54 x 16.9 mm
ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core flat armoured 50 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core flat armoured	50 mm ²	0.387 Ω/km	61 x 18.6 mm
ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core flat armoured 70 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core flat armoured	70 mm ²	0.268 Ω/km	68 x 20.5 mm
ESP flat pump cable 3 kV Oil-well electric submersible pump power 3 core + ground flat armoured 10 mm ²	Oil-well electric submersible pump power	Downhole oil, heat and fluid exposure by well design	Flat armoured ESP cable	3 core + ground flat armoured	10 mm ²	1.83 Ω/km	39 x 12.7 mm
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