Thermocouple, RTD & downhole logging cables

1-PFA-322 550°F Wireline

1-PFA-322 550 °F (288 °C) PFA Armored Wireline Cable

5/16" ultra-high-temp 550 °F PFA-insulated armored monocore wireline

API RP 9A | 1000 V · +288 °C | Armored Logging

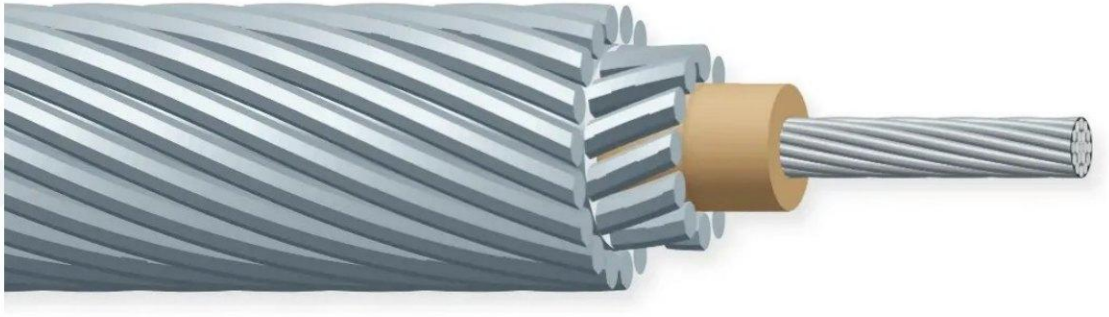


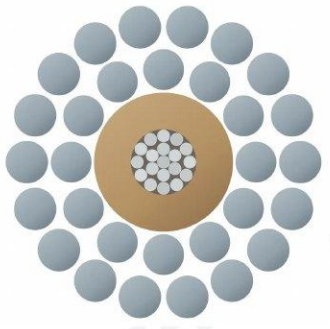
Application

1-PFA-322 550°F Wireline unites a bare/alloy copper monocore and heavy-wall PFA fluoropolymer insulation with counter-helical alloy-steel armor rated up to 550 °F (288 °C) for HPHT geothermal and deep oilfield logging.

Typical uses: Onshore & offshore oilfield well logging, HPHT geothermal & deep cased-hole wells, Perforating, slickline & production telemetry, Sour-gas H2S/CO2 downhole intervention

Construction





Cross-section, not to scale

1	**Conductor**	ASTM B172 Class K flexible bare annealed copper · ASTM B172 Class K
2	**Fluoropolymer dielectric**	Heavy-wall high-temperature PFA fluoropolymer dielectric · API RP 9A
3	**Fluoropolymer bedding jacket**	Extruded high-temperature fluoropolymer (PFA/FEP) inner bedding · API RP 9A
4	**Double GIPS steel wire armor**	Double counter-helical high-strength steel/alloy wire armor · API RP 9A

Technical data

Typical values

Rated voltage	1000 V	**Test voltage**	3.5 kV AC
Conductor	Bare Cu · Cl.K	**Insulation**	Heavy-wall high-temperature PFA
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-40 °C to +288 °C
Temp. range (flexing)	-30 °C to +288 °C	**Peak / short-circuit**	+300 °C (short-term)
Min. bending radius	25 × OD (fixed)	**Flame / fire rating**	288 °C / 550 °F HPHT
Thermal / chemical	Double Alloy Armor	**Mechanical / special**	Geothermal & Deep Well
Outer finish	Counter-helical double GIPS/alloy steel		

Sizes

4 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Monocore AWG	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 25×D mm
☐ 1×20 AWG Monocore	6.8	36.70	6	165	170
☐ 1×18 AWG Monocore	7.4	23.20	9	215	185
☐ 1×16 AWG Monocore	8.2	14.70	14	275	205
☐ 1×14 AWG Monocore	9.1	9.07	22	345	228

- Conductor DC resistance R20 at 20 °C per ASTM B172 Class K.
- Minimum bending radius calculated at 25 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- ✓ API RP 9A
- ✓ ICEA S-73-532
- ✓ IEEE 1580 (ref.)
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/1-pfa-322-550f-288c-armored-wireline-cable

Typical values for this cable type, based on API RP 9A · ICEA S-73-532 · IEEE 1580 (ref.). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.