

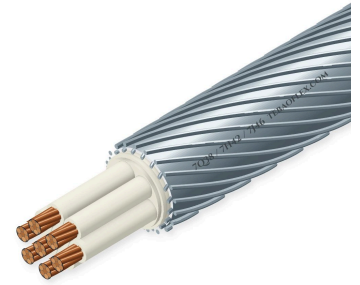


instrumentation cable series

7Q38 / 7H42 / 7J46

Seven-Conductor Armoured Wireline Logging

API RP 9B 7-conductor double-armoured open-hole wireline logging cable



7-Conductor Heptacable

3/8" · 27/64" · 15/32"

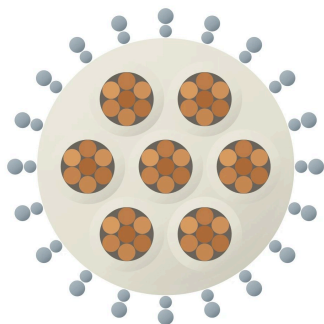
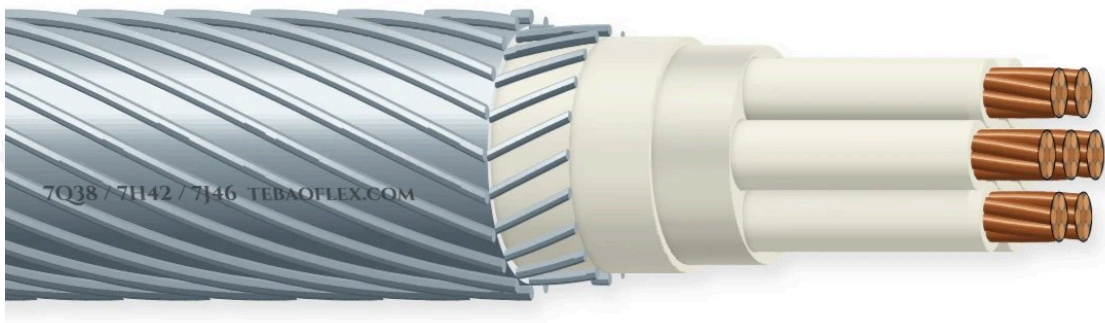
Up to +260 °C & 98 kN

Application

7Q38 (.390" / 9.91 mm), 7H42 (.422" / 10.72 mm) and 7J46 (.464" / 11.79 mm) Seven-Conductor Double-Armoured Wireline Logging Cable with 1+6 tinned/nickel copper conductors, ETFE/FEP/PFA insulation, void-filler matrix and.

Typical uses: Open-Hole Formation Evaluation (Triple/Quad Combo), NMR, Borehole Acoustic & Micro-Imager Logging, Formation Fluid Sampling & Sidewall Coring, VSP Borehole Seismic & Deep Geothermal Wells, Sour Gas (MP35N / Alloy 27-7MO) Open-Hole Logging

Construction



Cross-section, not to scale

1 7 × stranded tinned/nickel copper conductors (1+6)**2** Code Q / H / J fluoropolymer core insulationWithstands 1,000–1,500 V
AC/DC tool power**3** Void-free elastomeric/fluoropolymer interstitial filler**4** Inner & outer contra-helical steel wire armour

Technical data

Typical values

Voltage rating	1,000 V rms (7Q38) · 1,200 V rms (7H42) · 1,500 V rms (7J46)	Conductor DC R @ 20 °C	33.5 Ω/km (7Q38) · 29.8 Ω/km (7H42) · 24.6 Ω/km (7J46)
Armour return resistance	3.8 Ω/km (7Q38) · 3.2 Ω/km (7H42) · 2.6 Ω/km (7J46)	Insulation resistance	≥ 15,000 MΩ·km @ 500 V DC (20 °C)
7Q38 continuous rating	-40 °C to +165 °C (+330 °F) — Cross-linked ETFE	7H42 continuous rating	-40 °C to +205 °C (+400 °F) — Fluoropolymer HT
7J46 continuous rating	-40 °C to +260 °C (+500 °F) — PFA Ultra-HT	Min. breaking strength	64.5 kN (7Q38) · 77.8 kN (7H42) · 93.4 kN (7J46)
Stretch coefficient	0.95 to 1.25 m / km / 5 kN (factory hot pre-stretched)	Min. sheave diameter	560 mm / 22" (7Q38) · 610 mm / 24" (7H42) · 660 mm / 26" (7J46)
Hydrostatic well pressure	Up to 175 MPa (25,000 psi)	Sour well H₂S option	Available with Nitronic 50 or MP35N armour per NACE MR0175
Gas decompression	Void-filled core bedding prevents gas pocket blowouts	Standards	API RP 9B (Application, Care & Use of Wire Rope)

Sizes

4 standard constructions

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

Order designation	Nominal size & insulation	Nominal Ø mm	Weight in air kg/km	Break load kN	Cond. DC R Ω/km
7-Conductor Double-Armoured Wireline Logging Cables 4 sizes					
☐ 7Q38 (.390" ETFE)	3/8" (.390") · +165 °C ETFE · GIPS	9.91	372	64.5	33.5
☐ 7Q38-UHS (.390" High-Strength)	3/8" (.390") · +165 °C ETFE · UHS	9.91	378	75.6	33.5
☐ 7H42 (.422" HT)	27/64" (.422") · +205 °C FEP · GIPS	10.72	438	77.8	29.8
☐ 7J46 (.464" PFA Ultra-HT)	15/32" (.464") · +260 °C PFA · UHS	11.79	536	93.4	24.6

– Supplied pre-seasoned and hot-stretched in continuous lengths up to 9,150 m (30,000 ft) on steel logging drums.

Standards and approvals

- ✓ API RP 9B Wireline Compliant
- ✓ ASTM A475 / UHS Armour Grade
- ✓ NACE MR0175 (MP35N Option)

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/7q38-7h42-7j46-seven-conductor-armoured-wireline-logging-cable



Typical values for this cable type, based on API RP 9B / ASTM A475 / NACE MR0175. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.