Stainless-armoured subsea instrumentation cable

REF 56427

600 V Armoured Subsea Triad Cable

IEC 60092-350 / ISO 13628-5 · 600 V · 4 × 3 × 1.34 mm² (16 AWG) screened ETFE armoured

IEC 60092-350 | 600 V / 4×3×1.34 mm² | SS 316L Armoured



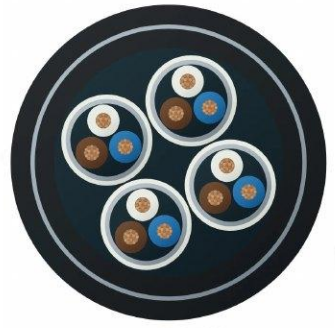
Application

REF 56427 600 V subsea instrumentation and sensor cable comprising 4 individually foil-and-braid screened triads of 1.34 mm² (16 AWG) tinned copper with fluoropolymer (ETFE) insulation, a watertight inner PU sheath and corrosion-resistant.

Typical uses: Subsea ROV, AUV & Towed Array Systems, Offshore Oil, Gas & Subsea Production Umbilicals, Oceanographic Mooring & Deep-Water Telemetry, Naval Defence, Hydrographic & Sonar Arrays

Construction





Cross-section, not to scale

1	Stranded Tinned Copper Triad Conductors	IEC 60092-350 / ISO 13628-5
2	ETFE Fluoropolymer Core Insulation	IEC 60092-350 / ISO 13628-5
3	Individual Tinned Copper Braid Screen & ETFE Triad Jacket	IEC 60092-350 / ISO 13628-5
4	Polyethylene (PE) Water-Blocking Inner Sheath	IEC 60092-350 / ISO 13628-5
5	Stainless Steel Wire Braid Armour	IEC 60092-350 / ISO 13628-5
6	High-Density Polyethylene (HDPE) Outer Sheath	IEC 60092-350 / ISO 13628-5

Technical data

Typical values

Rated voltage / transmission duty	600 V RMS (IEC 60092-350 / ISO 13628-5)	**Core / conductor construction**	Stranded Tinned Copper Triad Conductors — 12 x 1.34 mm² (4 triads x 3 cores, 16 AWG) stranded tinned copper conductors for corrosion-free marine signal transmission
Primary dielectric / buffering	ETFE Fluoropolymer Core Insulation — Thin-wall ethylene tetrafluoroethylene (ETFE) fluoropolymer insulation (White, Blue, Brown per triad) rated 600 V	**Continuous operating temperature**	−40…+90 °C (subsea immersion & marine deck service)
Storage & transport temperature	−40…+80 °C on marine export reel	**Outer protection / armouring**	High-Density Polyethylene (HDPE) Outer Sheath — Heavy-duty black high-density polyethylene (HDPE) outer jacket for deepwater immersion and abrasion resistance
Minimum bending radius	8–12 × OD	**Hydrostatic depth rating**	Up to 6,000 m water depth (60 MPa hydrostatic pressure)
Seawater, hydrolysis & oil resistance	Continuous seawater immersion, hydraulic fluids and marine UV per IEC 60092-350 / ISO 13628-5	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60092-350 / ISO 13628-5		

Sizes

3 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Weight in air ≈ kg/km	Breaking load kN ≈	Min. bend R mm
REF 56427 Subsea Construction Schedule (−40…+90 °C) 3 sizes						
☐ **REF 56427 4×3×1.34 mm²**	**4 × 3 × 1.34 mm² (16 AWG)**	**19 × 0.30 mm tinned Cu**	**16.8**	**465**	**14.0**	**135**
☐ **REF 56427 2×3×1.34 mm²**	**2 × 3 × 1.34 mm² (16 AWG)**	**19 × 0.30 mm tinned Cu**	**13.4**	**310**	**9.5**	**110**
☐ **REF 56427 7×3×1.34 mm²**	**7 × 3 × 1.34 mm² (16 AWG)**	**19 × 0.30 mm tinned Cu**	**20.6**	**690**	**21.0**	**165**

– Custom core counts, optical fibre counts, armour wire grades and factory-moulded subsea terminations available per IEC 60092-350 / ISO 13628-5.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4 × 3 × 1.34 mm² (16 AWG)	**14.20**	**600 V RMS / 2000 V test**	**−40…+90 °C**
2 × 3 × 1.34 mm² (16 AWG)	**14.20**	**600 V RMS / 2000 V test**	**−40…+90 °C**
7 × 3 × 1.34 mm² (16 AWG)	**14.20**	**600 V RMS / 2000 V test**	**−40…+90 °C**

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric, OTDR optical continuity and dimensional verification.

Standards and approvals

- IEC 60092-350 Compliant
- 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/ref-56427-600v-screened-etfe-triad-armoured-subsea-cable

Typical values for this cable type, based on IEC 60092-350 / ISO 13628-5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.