submersible water-quality, CTD & ocean sensor cable

Pt100 Submersible Temp PUR Cable

Pt100 Submersible Temperature Probe PUR Cable

IEC 60751 Class A/AA · 300 V · Submersible water-quality, ctd & ocean sensor cable



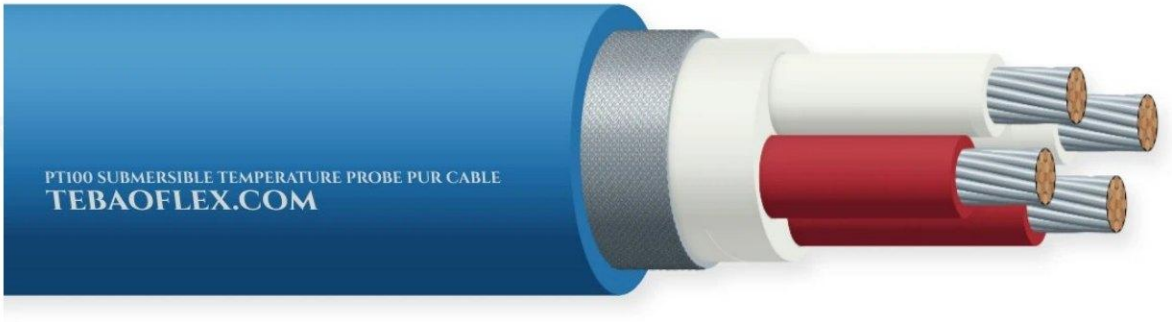
IEC 60751 Class A/AA | 300 V (-40 to +85 °C) | Subsea / Marine Outer Protective She

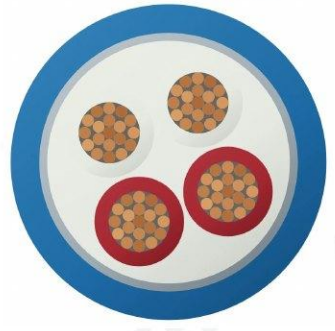
Application

Pt100 Submersible Temperature Probe PUR Cable featuring flexible stranded copper conductors (7 cores) and subsea / marine outer protective sheath (IEC 60751 Class A/AA, 300 V, -40 to +85 °C, min. bend radius 5 × OD).

Typical uses: Aquaculture Dissolved Oxygen (DO), pH & Salinity Monitoring, Vented Hydrostatic Water-Level & Borehole Pressure Probes, Oceanographic CTD Rosettes, Current Meters & Mooring Buoys, Recirculating Aquaculture (RAS) & Wastewater Sensor Networks

Construction





Cross-section, not to scale

1. Flexible Stranded Copper Conductors (7 C
2. Copper Wire Braid EMC Screen
3. Subsea / Marine Outer Protective Sheath

Technical data

Typical values

Rated voltage / operating system	300 V (IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification)	**Core / conductor construction**	Flexible Stranded Copper Conductors (7 Cores) — Class 5/ Class 6 copper conductors with Fluoropolymer (FEP/ETFE) high-dielectric insulation
Primary dielectric / optical buffer	Copper Wire Braid EMC Screen — High-coverage braided copper shield for EMI/VFD protection	**Continuous operating temperature**	−40…+85 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+85 °C per IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Subsea / Marine Outer Protective Sheath — Black hydrolysis- & abrasion-resistant marine Polyurethane (PUR) outer sheath	**Minimum bending radius**	5 × OD
Reinforcement / screen / bedding layer	Copper Wire Braid EMC Screen — High-coverage braided copper shield for EMI/VFD protection	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification		

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	Net weight ≈ kg/km	Max. pulling kN ≈	Min. bend R mm
Pt100 Submersible Temp PUR Cable Construction Schedule (−40…+85 °C) 3 sizes						
☐ **Pt100 Submersible Temp PUR Cable 2×2×0.50 mm²**	**2 × 2 × 0.50 mm² (20 AWG) + Vent/Drain**	**Stranded SnCu + Foil/TCWB + Subsea PUR**	**8.4**	**98**	**2.5**	**50**
☐ **Pt100 Submersible Temp PUR Cable 4×2×0.50 + 2×1.**	**4 × 2 × 0.50 + 2 × 1.5 mm² Hybrid**	**Stranded SnCu + Individual/Overall Shield**	**11.8**	**195**	**5.2**	**70**
☐ **Pt100 Submersible Temp PUR Cable 4×2×0.75 + 4×2.**	**4 × 2 × 0.75 + 4 × 2.5 mm² Subsea**	**Stranded SnCu + Aramid/Armour + PUR**	**15.2**	**360**	**12.0**	**95**

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
2 × 2 × 0.50 mm² (20 AWG) + Vent/Drain	**39.00**	**300 V (4–20 mA / DO)**	**−40…+85 °C**
4 × 2 × 0.50 + 2 × 1.5 mm² Hybrid	**39.00**	**300 V (CTD / Multi-Sensor)**	**−40…+85 °C**
4 × 2 × 0.75 + 4 × 2.5 mm² Subsea	**26.00**	**300 V (ROV / Camera / LED)**	**−40…+85 °C**

– Every production length undergoes routine conductor DC resistance / OTDR optical attenuation, AC dielectric and dimensional verification.

Standards and approvals

- IEC 60751 Class A/AA 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/pt100-submersible-temperature-probe-pur-cable

Typical values for this cable type, based on IEC 60751 Class A/AA Pt100 Submersible PUR Temperature Probe Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.