500 m Ex-rated submersible smart pump Cat.5 & control cable

LI-09YSCH PIMF-100 & HYBRID DATA

Li-09YSCH PiMF-100 & Hybrid DATA 500m Submersible Smart Pump Cable



DIN EN 60079 / Cat.5 · 300/500 V · 500 m ex-rated submersible smart pump cat.5 &

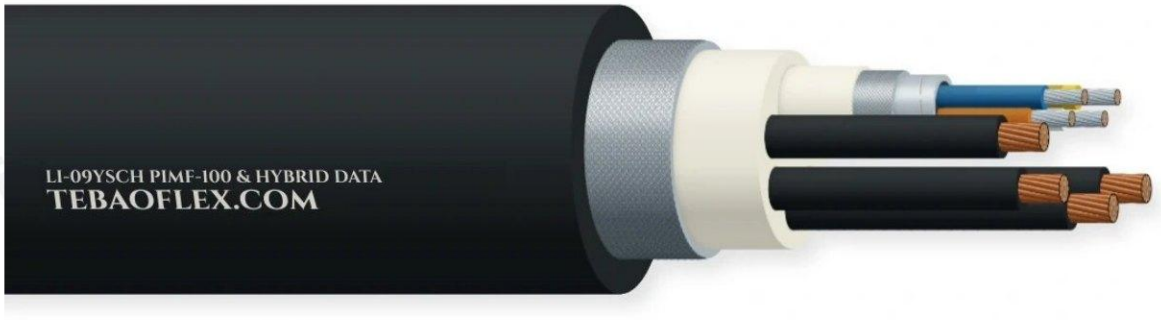
DIN EN 60079 Ex | Cat.5 100 MHz + 300/500 V | 500 m Submersible

Application

Li-09YSCH PiMF-100 Cat.5 (Subsea DATA) & Hybrid DATA 300/500 V 500m Submersible Dual-Screened Smart Pump Sensor Data & Control XL-Copolymer Cable (DIN EN 60079 / Cat.5, 300/500 V, -40 to +90 °C, min. bend radius 8 × OD).

Typical uses: Naval Shipboard & Submarine Outboard, Offshore Cathodic Protection (ICCP), Underwater Welding & Nuclear Pools, Deep-Well & Seabed Pump Feeders

Construction





Cross-section, not to scale

1. Dual-Screened Data Core (PiMF / 2×2 Quad)
2. 300/500 V EPR Control Cores (4×1.5 mm^2)
3. Overall Tinned Copper Braid Screen
4. Cross-Linked Copolymer Sheath (500 m)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard)	**Core / conductor construction**	Dual-Screened Data Core (PiMF / 2×2 Quad) — 4×2 Cat.5 Foam-Skin PP PiMF (Li-09YSCH) or 2×2 PE + Al/PET foil + tinned Cu braid + TPU
Primary dielectric / buffering	300/500 V EPR Control Cores (4×1.5 mm²) — Four numbered Class 5 copper control cores with EPR insulation in Subsea Hybrid DATA	**Continuous operating temperature**	−40…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Cross-Linked Copolymer Sheath (500 m) — Oil-, sewage- and flame-resistant halogen-free XL Copolymer outer jacket (–40 °C to +90 °C)	**Minimum bending radius**	8 × OD
Hydrostatic, tensile & crush duty	Overall Tinned Copper Braid Screen — High-coverage overall tinned copper wire braid for VFD & Ex-area EMC immunity	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard		

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	Tensile rating kN ≈	Min. bend R mm
LI-09YSCH PIMF-100 & HYBRID DATA Construction Schedule (−40…+90 °C) 3 sizes						
☐ **LI-09YSCH PIMF-100 Config A (Compact)**	4×2×24 AWG + 2×18 AWG (or 4C)	Stranded tinned Cu (IEC 60228 / ASTM)	10.4	155	4.5	85
☐ **LI-09YSCH PIMF-100 Config B (Standard)**	4×2×20 AWG + 4×16 AWG (or 8C)	Stranded tinned Cu (IEC 60228 / ASTM)	13.3	265	9.6	110
☐ **LI-09YSCH PIMF-100 Config C (Heavy Hybrid)**	8×2×20 AWG + 4×12 AWG (or 12C)	Stranded tinned Cu (IEC 60228 / ASTM)	16.6	420	18.5	140

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
4×2×24 AWG + 2×18 AWG (or 4C)	28.40	300/500 V (45–100 Ω data)	−40…+90 °C
4×2×20 AWG + 4×16 AWG (or 8C)	10.70	300/500 V (45–100 Ω data)	−40…+90 °C
8×2×20 AWG + 4×12 AWG (or 12C)	5.40	300/500 V (High-Power Hybrid)	−40…+90 °C

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

Standards and approvals

- DIN EN 60079 / Cat.5 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/li-09ysch-pimf-100-hybrid-data

Typical values for this cable type, based on DIN EN 60079-14 / ISO/IEC 11801 Cat.5 Smart Pump Standard. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.