FEP/ETFE chemical-resistant submersible pump cable

S07E6E5-F

450/750 V FEP/ETFE Submersible Pump Cable

EN 50525 / IEC 60228 · 450/750 V · −50…+150 °C fluoropolymer chemical pump cable



450/750 V Pump | FEP / ETFE (E6/E5) | Acid & Solvent Proof

Application

S07E6E5-F 450/750 V heat- and chemical-resistant submersible pump cable combining Class 5 copper power conductors with E6 FEP insulation, ETFE-insulated thermal/leakage monitoring cores and an extruded E5 FEP fluoropolymer outer sheath.

Typical uses: Chemical, Petrochemical & Acid Sump Pumping, Landfill Leachate, Industrial Effluent & Digesters, Pharmaceutical, Solvent Recovery & Electroplating Baths, Geothermal Brine, Hot-Water & Mine Dewatering Wells

Construction





Cross-section, not to scale

1	Power Conductors (4G16 mm²)	EN 50525 / IEC 60228 Class 5
2	Power Core Insulation (E6)	EN 50525 / IEC 60228 Class 5
3	Monitoring Conductors (2x1.5 mm²)	EN 50525 / IEC 60228 Class 5
4	Monitoring Core Insulation	EN 50525 / IEC 60228 Class 5
5	Outer Sheath (E5)	EN 50525 / IEC 60228 Class 5

Technical data

Typical values

Rated voltage / transmission duty	450/750 V (EN 50525 / IEC 60228 Class 5)	**Core / conductor construction**	Power Conductors (4G16 mm²) — Class 5 finely stranded plain annealed copper power conductors (3 phase cores + 1 green/yellow protective earth core)
Primary dielectric / insulation	Power Core Insulation (E6) — Extruded fluorinated ethylene propylene (FEP, code E6) primary insulation resistant to aggressive solvents, acids, and +180 °C media	**Continuous operating temperature**	−50…+150 °C (rated operating envelope)
Storage & transport temperature	−40…+80 °C on export drum or reel	**Outer protection / sheath**	Outer Sheath (E5) — Heavy-duty black fluorinated ethylene propylene (FEP, code E5) outer jacket impervious to hot Leachate, hydrocarbons, and corrosive chemicals
Minimum bending radius	8–10 × OD	**Structural layer count**	5 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per EN 50525 / IEC 60228 Class 5	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	EN 50525 / IEC 60228 Class 5		

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	Configuration	Core / stranding	Outer Ø ≈ mm	Weight ≈ kg/km	Tensile load kN ≈	Min. bend R mm
S07E6E5-F Construction Schedule (−50…+150 °C) 4 sizes						
☐ S07E6E5-F 4G6 + 2×1.5 mm²	4G6 + 2×1.5 mm²	Class 5 Cu + FEP/ETFE	16.4	485	3.2	135
☐ S07E6E5-F 4G10 + 2×1.5 mm²	4G10 + 2×1.5 mm²	Class 5 Cu + FEP/ETFE	19.2	710	5.0	155
☐ S07E6E5-F 4G16 + 2×1.5 mm²	4G16 + 2×1.5 mm²	Class 5 Cu + FEP/ETFE	22.5	1,040	7.8	180
☐ S07E6E5-F 4G25 + 2×1.5 mm²	4G25 + 2×1.5 mm²	Class 5 Cu + FEP/ETFE	26.8	1,520	12.0	215

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per EN 50525 / IEC 60228 Class 5.

Electrical, optical & thermal parameters

4 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
4G6 + 2×1.5 mm²	3.30	450/750 V / 52 A	−50…+150 °C
4G10 + 2×1.5 mm²	1.91	450/750 V / 72 A	−50…+150 °C
4G16 + 2×1.5 mm²	1.21	450/750 V / 96 A	−50…+150 °C
4G25 + 2×1.5 mm²	0.78	450/750 V / 128 A	−50…+150 °C

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

Standards and approvals

- EN 50525 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/s07e6e5-f-450-750v-fep-etfe-chemical-resistant-submersible-pump-cable

Typical values for this cable type, based on EN 50525 / IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.