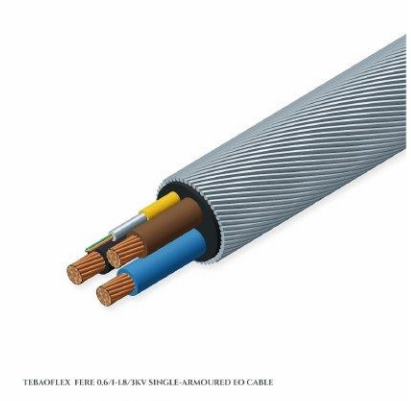
submarine & offshore power composite cable

FERE 0.6/1–1.8/3kV EO

FERE 0.6/1 kV & 1.8/3 kV 3-Core + 12F G.652D Single Steel-Wire Armoure

IEC 60502-1 / FERE Subsea EO · 0.6/1 kV – 1.8/3 kV · Submarine & offshore power

IEC 60502-1 / FERE Subsea EO | **0.6/1 kV – 1.8/3 kV (-25 to +90 °C)** | **Bitumen-Filled Single Steel Wire Arm**



Application

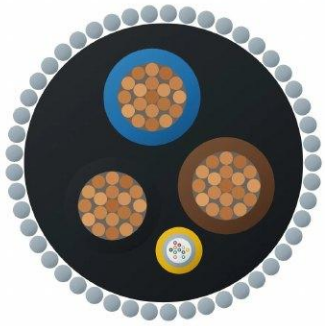
FERE 0.6/1 kV & 1.8/3 kV 3-Core + 12F G.652D Single Steel-Wire Armoured Subsea EO Cable (IEC 60502-1 / FERE Subsea EO) engineered for 0.6/1 kV – 1.8/3 kV service across -25 to +90 °C (min. bend radius 12 × OD).

Typical uses: Offshore Wind Inter-Array & Export Submarine Links, Subsea Island & Platform HV/MV Power Interconnects, Offshore Oil & Gas Drilling Rigs & FPSOs, Commercial Vessels, Polar Ships & Marine Propulsion

Construction



TEBAOFLEX FERE 0.6/1-1.8/3KV SINGLE-ARMOURED EO CABLE



Cross-section, not to scale

1. Class 2 Stranded Copper/Al Cores (10-240
2. 12-Fiber G.652D Single-Mode Optical Unit
3. Polyethylene (PE) Inner Sheath
4. Bitumen-Filled Single Steel Wire Armour

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV – 1.8/3 kV (IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical Specification)	**Core / conductor construction**	Class 2 Stranded Copper/Al Cores (10-240 mm²) — 0.6/1 kV or 1.8/3 kV XLPE insulated power conductors
Primary dielectric / buffering	12-Fiber G.652D Single-Mode Optical Unit — Interstitial optical fiber tube for buoy & farm telemetry	**Continuous operating temperature**	−25…+90 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	Bitumen-Filled Single Steel Wire Armour (FERE) — Corrosion-inhibited galvanized round steel wire outer armour	**Minimum bending radius**	12 × OD
Armour, strength member & mechanical duty	Polyethylene (PE) Inner Sheath — Waterproof extruded PE inner bedding jacket	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical 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	Breaking / tensile kN ≈	Min. bend R mm
FERE 0.6/1–1.8/3kV EO Construction Schedule (−25…+90 °C) 3 sizes						
☐ **FERE 0.6 3×16+1G16 mm²**	**3 × 16 + 1G16 mm² (or 1C×50 mm²)**	**IEC 60228 Class 2/5 Cu/SnCu**	**22.4**	**920**	**18.5**	**135**
☐ **FERE 0.6 3×35+1G16 mm²**	**3 × 35 + 1G16 mm² (or 1C×150 mm²)**	**IEC 60228 Class 2/5 Cu/SnCu**	**28.8**	**1,690**	**32.0**	**175**
☐ **FERE 0.6 3×95+1G50 mm²**	**3 × 95 + 1G50 mm² (or 1C×300 mm²)**	**IEC 60228 Class 2/5 Cu/SnCu**	**41.2**	**3,680**	**58.0**	**250**

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (or 1C×50 mm²)	**1.15**	**0.6/1 kV – 1.8/3 kV (98 A)**	**−25…+90 °C**
3 × 35 + 1G16 mm² (or 1C×150 mm²)	**0.52**	**0.6/1 kV – 1.8/3 kV (158 A)**	**−25…+90 °C**
3 × 95 + 1G50 mm² (or 1C×300 mm²)	**0.19**	**0.6/1 kV – 1.8/3 kV (285 A)**	**−25…+90 °C**

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

Standards and approvals

- IEC 60502-1 / FERE Subsea EO 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/fere-0-6-1-1-8-3kv-single-armoured-eo-cable

Typical values for this cable type, based on IEC 60502-1 FERE 0.6/1 kV & 1.8/3 kV Single-Armoured Subsea Electro-Optical Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.