Offshore wind inter-array submarine composite cable

(F)2XS(FL)2YRAA

19/33 kV Offshore Wind Inter-Array Cable

VDE 0276-620 · 19/33 kV · Offshore wind inter-array submarine composite cable

DIN VDE 0276-620 | 19/33 (36) kV XLPE | Offshore Wind Inter-Array



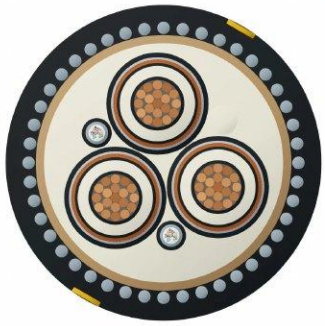
Application

(F)2XS(FL)2YRAA 19/33 kV Offshore Wind Inter-Array Cable (DIN VDE 0276-620 / IEC 60502-2) engineered for 19/33 kV service across -20 to +90 °C (min. bend radius 15 × OD).

Typical uses: Work-Class & Observation ROV Systems, Offshore Wind & Subsea Power Grids, Oceanographic, Sonar & Seismic Survey, Commercial Diving & Subsea Intervention

Construction





Cross-section, not to scale

1. Water-Blocked Phase Cores (3×500 mm²)
2. Cu Wire Screen & Al-PE Laminate S(FL)2Y>c<
3. Integrated Subsea FO Cable & PP Fillers
4. Galvanized Round Steel Wire Armour (R)
5. Hessian & PP Roving Outer Serving (AA)

Technical data

Typical values

Rated voltage / transmission duty	19/33 kV (DIN VDE 0276-620 / IEC 60502-2)	**Core / conductor construction**	Water-Blocked Phase Cores (3×500 mm²) — Class 2 longitudinal water-blocked Cu (F) + semicon + 8.0 mm 36 kV XLPE (2X)
Primary dielectric / buffering	Cu Wire Screen & Al-PE Laminate S(FL)2Y>c< — 25 mm² Cu wire/tape screen + swelling powder (FL) + Al foil laminate + HDPE sheath	**Continuous operating temperature**	−20…+90 °C (subsea, marine & submersible duty)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0276-620 / IEC 60502-2	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Hessian & PP Roving Outer Serving (AA) — Two bitumen-impregnated Hessian tapes + black/yellow polypropylene yarn serving	**Minimum bending radius**	15 × OD
Hydrostatic, tensile & crush duty	Galvanized Round Steel Wire Armour (R) — 54–68 × Ø4.0–4.75 mm galvanized steel wires embedded in bitumen over bedding	**Hydrostatic pressure & water blocking**	Engineered for continuous submersion and hydrostatic integrity per DIN VDE 0276-620 / IEC 60502-2
Seawater, oil & chemical resistance	Resistant to seawater hydrolysis, hydraulic oils and abrasion per DIN VDE 0276-620 / IEC 60502-2	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0276-620 / IEC 60502-2		

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
(F)2XS(FL)2YRAA Construction Schedule (−20…+90 °C) 3 sizes						
☐ (F)2XS(FL)2YRAA 3×240 mm² + FO	3 × 240 mm² + 48F FIMT	IEC 60228 Class 2 water-blocked Cu	118.0	26,400	320.0	1,770
☐ (F)2XS(FL)2YRAA 3×400 mm² + FO	3 × 400 mm² + 48F FIMT	IEC 60228 Class 2 water-blocked Cu	134.0	34,800	420.0	2,010
☐ (F)2XS(FL)2YRAA 3×630 mm² + FO	3 × 630 mm² + 96F FIMT	IEC 60228 Class 2 water-blocked Cu	152.0	46,200	560.0	2,280

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DIN VDE 0276-620 / IEC 60502-2.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 240 mm² + 48F FIMT	0.08	19/33 kV (560 A)	−20…+90 °C
3 × 400 mm² + 48F FIMT	0.05	19/33 kV (710 A)	−20…+90 °C
3 × 630 mm² + 96F FIMT	0.03	19/33 kV (890 A)	−20…+90 °C

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

Standards and approvals

- VDE 0276-620 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/f-2xs-fl-2yraa

Typical values for this cable type, based on DIN VDE 0276-620 / IEC 60502-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.