

RADOX® OFL™

High-grade cabling solutions that ensure safety and operational efficiency without the premium

Edition 2022/09

The revolutionary cabling solution for oil & gas



Oil Platform



FPSO



Refinery



Petrochemical



Power Plant



Offshore Wind Farm

HUBER+SUHNER originally developed its unique RADOX® cable technology 40 years ago to meet the unique challenges of the railway and defense industries. Since then, the product portfolio has expanded to suit applications in harsh environments typically found in the oil & gas industry where safety and operational reliability are critical.

Multiple benefits, one solution

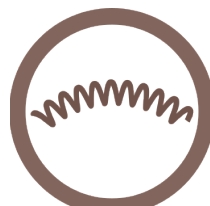
- NEK 606 compliance
- Excellent mechanical, abrasion, and heat resistance
- High and low temperature tolerant (from -50° up to $+125^{\circ}\text{C}$)
- Able to withstand exposure to chemicals, oils, acids/bases, fuels, as well as harsh environmental factors
- Long service life
- Ex i/ Ex d/ Ex e safety



Safety



Lightweight



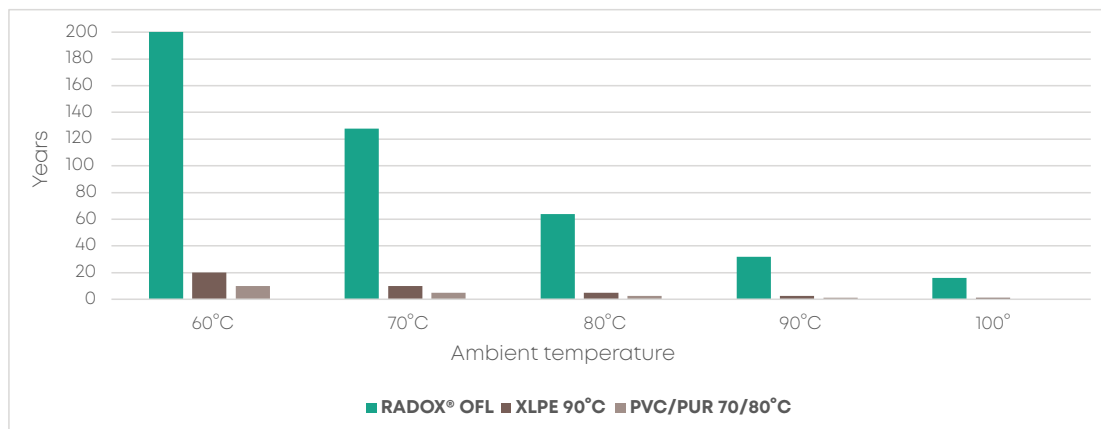
Highly Flexible



Reduced Total Cost of Ownership

Our commitment to the safety and efficiency in the oil & gas industry

Arrhenius temperature test comparing the RADOX® sheath against other standard cables



Reduced total cost of ownership

The RADOX® OFL™ cables feature the innovative electron-beam cross-link technology to deliver excellent mechanical strength and resistance against challenging environmental factors. The cable's high-performance compound ensures longer operational lifetime, easier processing and installation, along with increased safety and durability – all resulting in reduced total cost of ownership when compared to other cables on the market.

Fully compliant with DNV class program

Standards in the oil & gas industry have progressively become more stringent over the years and operators face increasing challenges in meeting both safety and cost requirements. Therefore, the DNV has introduced special class programme that look into the weight, lifetime and environmental requirements for cables designed for use in offshore and marine.

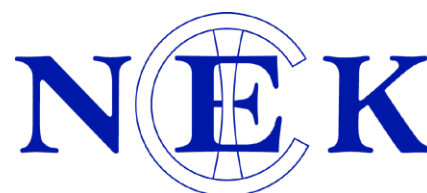


The RADOX cable insulation material and the specific thin-wall lightweight design has been tested under the DNV class program and has proven to have the same or better mechanical / electrical performance as the IEC standard.

Highest NEK TS 606:2016 standard

While most other industrial cables on the market meet only the minimum requirements of NEK 606 Category A approval, RADOX OFL goes beyond and is approved for NEK 606 Categories A to C.

- ✓ **Category A: Minimum required oil resistance**
- ✓ **Category B: Enhanced oil resistance**
- ✓ **Category C: Mud resistance**
- * **Category D: Hydraulic/gear oil resistance (on request)**



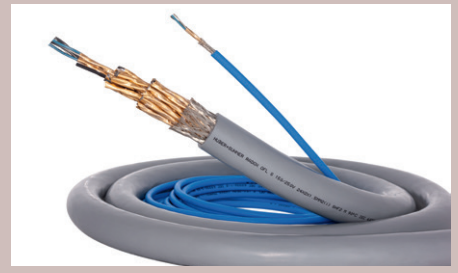
Tested by



RADOX® OFL™ cable family

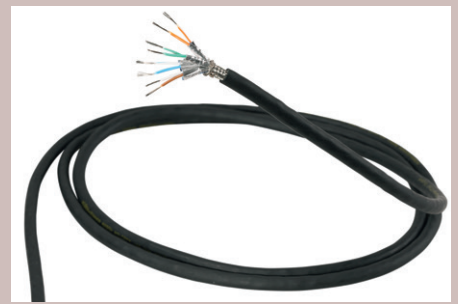
RADOX OFL Instrumentation cables

- For high-temperature process environments like steam boiler applications
- SHF2 sheath with extreme oil, mud & chemical resistance
- Pair, triples & quadruples from 0.5–2.5mm²
- -40...+125°C



RADOX OFL CAT cables

- CAT5e or CAT7
- PE foamed cores
- SHF2 sheath with extreme oil, mud & chemical resistance
- For fixed and moving applications
- -50...+90°C
- SPE/ APL – coming soon



RADOX OFL FO cables

- Up to 24 fibers
- SHF2 sheath with extreme oil, mud & chemical resistance
- SWA or glass-armoured
- Flame retardant and fire resistant
- -50...+85°C



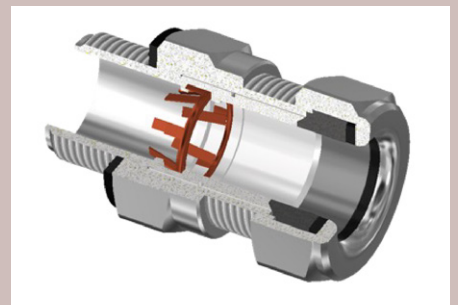
RADOX OFL RF cables

- Up to 6–8GHz bandwidth with lowest loss factor
- Double braided for optimum signal immunity
- SHF2 sheath with extreme oil, mud & chemical resistance
- -40...+105°C
- Wide range of connectors, adapters and ESP



RADOFLEX™ / RADOFLEX™ BAR cable glands

- First Ex d, Ex e and Ex i gland with single compression and EMC function for offshore and onshore cables
- Dedicated gland for each cable article, guaranteeing the perfect fit (including Ex approval and passed flame transmission test)
- Only outer sheath to be cut without breaking out cores



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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163 – IRIS.

Waiver

Fact and figures herein are for information only and do not represent any warranty of any kind.