

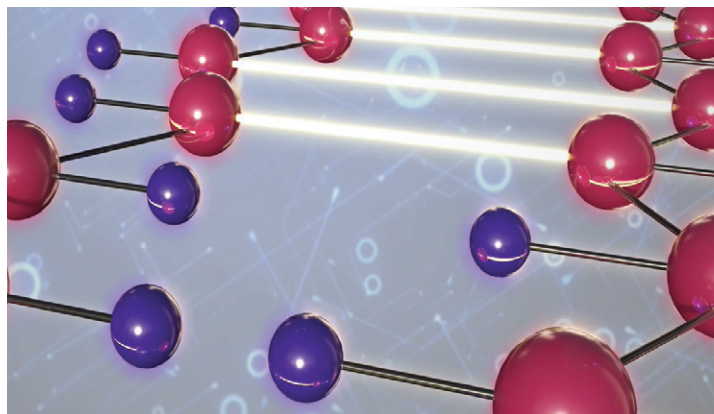
RADOX® cable technology



HUBER+SUHNER originally developed its unique RADOX® cable technology over 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 ranging from marine, offshore oil & gas and refineries to petrochemical, chemical and power plants.

What is electron beam cross-linking

RADOX® cables are developed using electron beam cross-linking in which the cable passes through a tightly controlled process where radiation is used to change the chemical structure of the polymer across the entire circumference of the cable. The molecules of the polymer are then cross-linked, significantly improving the thermal, mechanical and chemical properties of the cable's insulation material. This allows the cable to withstand high temperatures and short-term peaks such as short-circuit currents.



When safety is the top priority

E-beam cross-linking significantly improves the cable's insulation, thereby strengthening its properties and making it ideal for harsh environments where safety is priority. RADOX cables are proven to withstand extreme conditions, such as fire, due to their unique properties:

- Halogen free, low smoke, flame retardant and fire resistant
- Will not melt, flow or shrink
- Excellent resistance to high and low temperature fluctuations
- Extremely resistant to oil, mud and chemicals

Lower total cost of ownership

RADOX cable insulation is thinner yet more robust to withstand various environmental factors. It offers advantages:

- Up to 8-times longer operational lifetime than other cables on the market
- Lower maintenance, repair, operational cost
- Smaller cable diameter equals less costly cable glands and trays
- Reduced cable weight leads to reduction in steel infrastructure

RADOX® cable categories

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...+130°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
- SWB or glass-armoured
- Flame retardant and fire resistant
- -50...+85°C



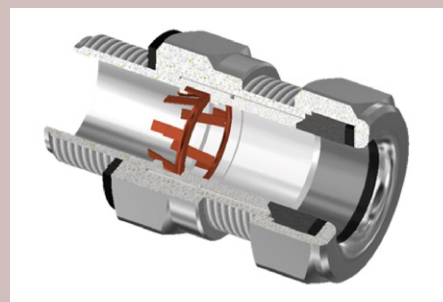
RADOX OFL RF cables

- 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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