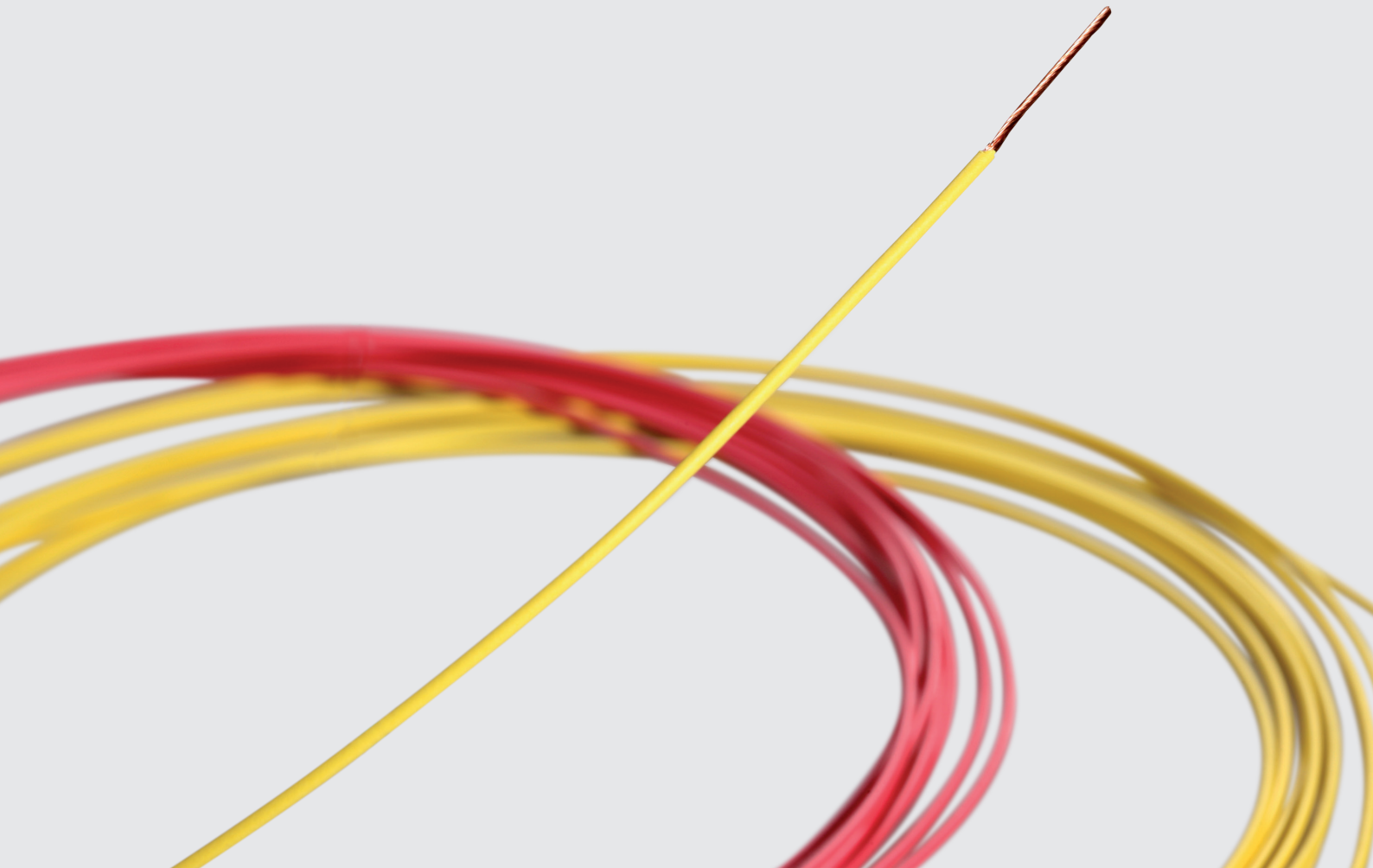


# RADOX<sup>®</sup> anticapillary for automotive applications



## Application

The anti-capillary cable prevents fluids (e.g. water or AdBlue) penetrating the copper wire and thus damaging electronics or sensors. Potential applications include:

- Cores in AdBlue tanks
- Fan motor cables
- Sensor cables
- Cables connected to control units

More expensive sealing solutions, such as waterproof connectors, overmoulding, adhesive bonding or cable separator sleeves are no longer needed. The cable assumes the sealant function.

# RADOX<sup>®</sup> anticapillary

Cross section	0.35 – 6 mm <sup>2</sup>
Voltage rating	60 / 600 V DC
Temperature range	–55 to +150 °C (3000 h)
Min. bending radius	3 × cable dia.

## Characteristics and specialities

- Anticapillary
- Silicone free
- High and low temperature resistance
- Ozone and weathering resistance
- Resistant to pressure at high temperature
- Insulation is resistant to motor oils, fuels and hydrolysis
- Flame retardant
- High abrasion resistance



Test setup: Verification of capillary effect with AdBlue in a glass bottle

- Yellow: Standard cables
- Black/red: Anti-capillary cables

## Standards

Conductor	General
ISO 6722	ISO 6722 Class D, thin-wall
DIN EN 13602, Cu-ETP1-A (CW003A)	LV 112

## Dimensions as per ISO 6722

Cross section mm <sup>2</sup>	construction* n × mm	Conductor			Core		Weight kg/100 m nom.
		diameter max. mm	Resistance at 20 °C max Ω/km		wall thickness min. mm	diameter mm	
			tinned	bare			
0.35	7 × 0.26	0.8	54.5	52.0	0.2	1.25 ± 0.05	0.4
0.5	19 × 0.19	1.0	38.2	37.1	0.22	1.5 ± 0.1	0.6
0.75	19 × 0.23	1.2	25.4	24.7	0.24	1.8 ± 0.1	0.9
1.0	19 × 0.26	1.35	19.1	18.5	0.24	2.0 ± 0.1	1.1
1.5	19 × 0.32	1.7	13.0	12.7	0.24	2.3 ± 0.1	1.6
2	19 × 0.38	1.86	9.69	9.42	0.28	2.65 ± 0.15	2.2
2.5	19 × 0.42	2.20	7.82	7.60	0.28	2.85 ± 0.15	2.6
4	19 × 0.55	2.75	4.85	4.71	0.32	3.55 ± 0.15	4.2
6	19 × 0.67	3.30	3.23	3.14	0.32	4.15 ± 0.15	6.1

\* typical value × max. single wire diameter

HUBER+SUHNER AG  
Low Frequency Division  
Tumbelenstrasse 20  
8330 Pfäffikon/Switzerland  
Phone +41 44 952 2211  
Fax +41 44 952 2670  
hubersuhner.com

HUBER+SUHNER is certified according to ISO 9001,  
ISO 14001, ISO/TS 16949 and IRIS.

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