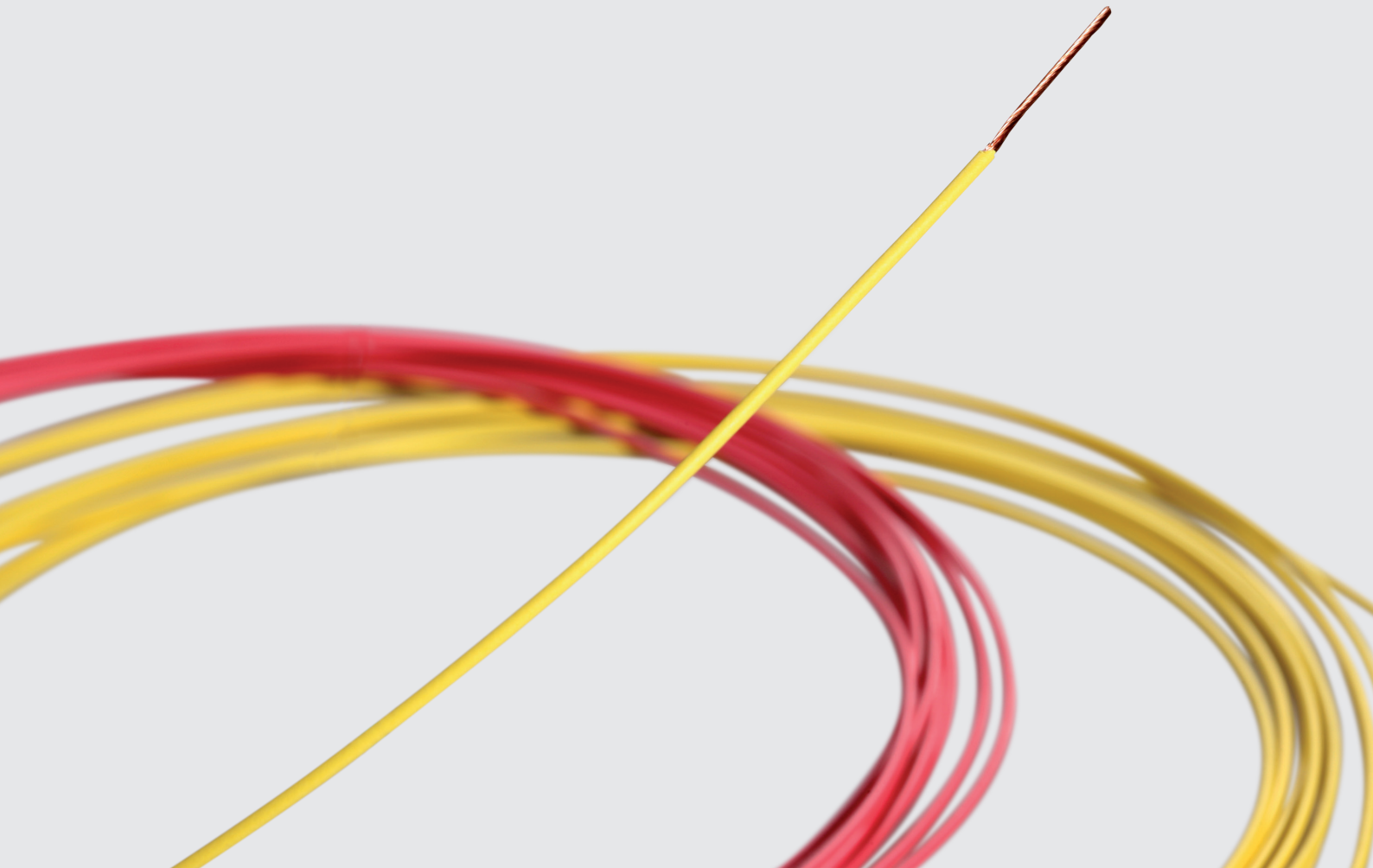


RADOX[®] anticapillary for automotive applications



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[®] anticapillary

Cross section	0.35 – 6 mm ²
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 ²	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

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

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