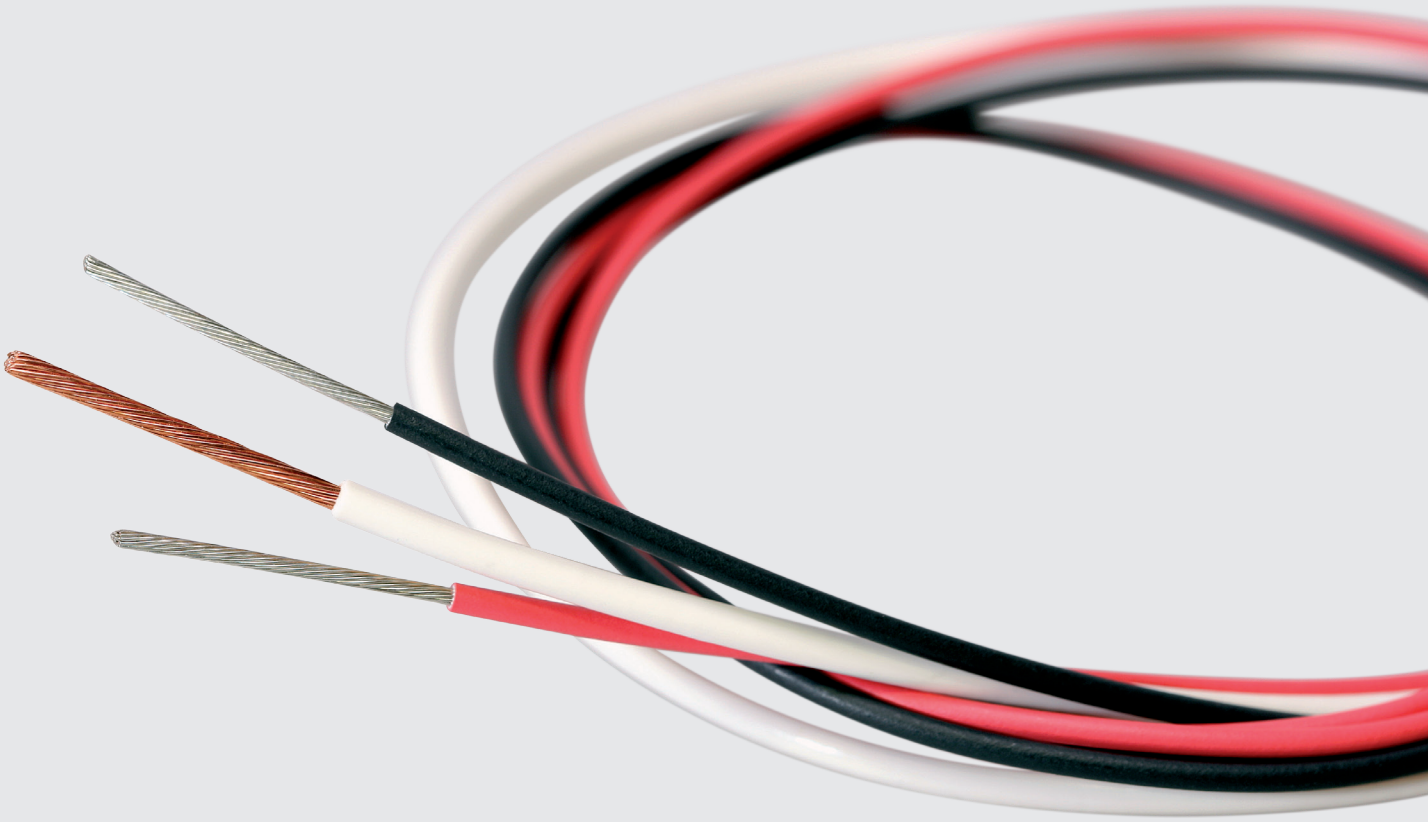
RADOX® Anti-capillary cable

for industrial applications



Application

The barrier-sealed core prevents the flow of fluids (e.g. water, oil or cleaning agent) from one end to the other, between the connectors and the insulation cavities. The anti-capillary cable thus prevents damage to electronic devices or sensors.

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

Potential applications include:

- Sensor cables
- Pump cabling
- Fan motor cabling
- Harnesses connected to control units
- Distribution boxes
- Switches

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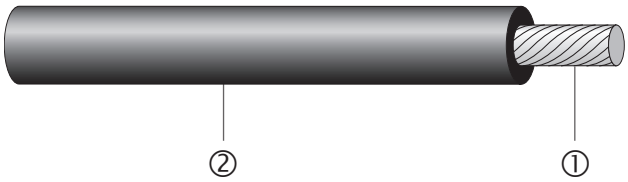
Excellence in Connectivity Solutions

RADOX® anticapillary



- Barrier-sealed
- 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

Composition of cable

① Conductor	Tin-plated or bare copper wire, special coating
② Isolation	RADOX® 155S,extruded and electron beam crosslinked polyolefin various colours

Technical data

Number of cores	1
Cross section	0.35 to 6 mm^2
Voltage rating ≤ 0.5 mm^2	40 V AC / 60 V DC
Voltage rating > 0.5 mm^2	400 V AC / 600 V DC
Temperature range	(–55 °C) –40 to +150 °C (3000 h)
Min. bending radius	3 × core diameter

Extract from our delivery programme

Cross section	Conductor				Core		Weight
mm^2	Construction* n × mm	Ø max. mm	Resistance at 20 °C max. Ω/km		Wall thickness min. mm	Ø mm	nom. kg/100 m
			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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