Automotive products

RADOX® cables and system solutions

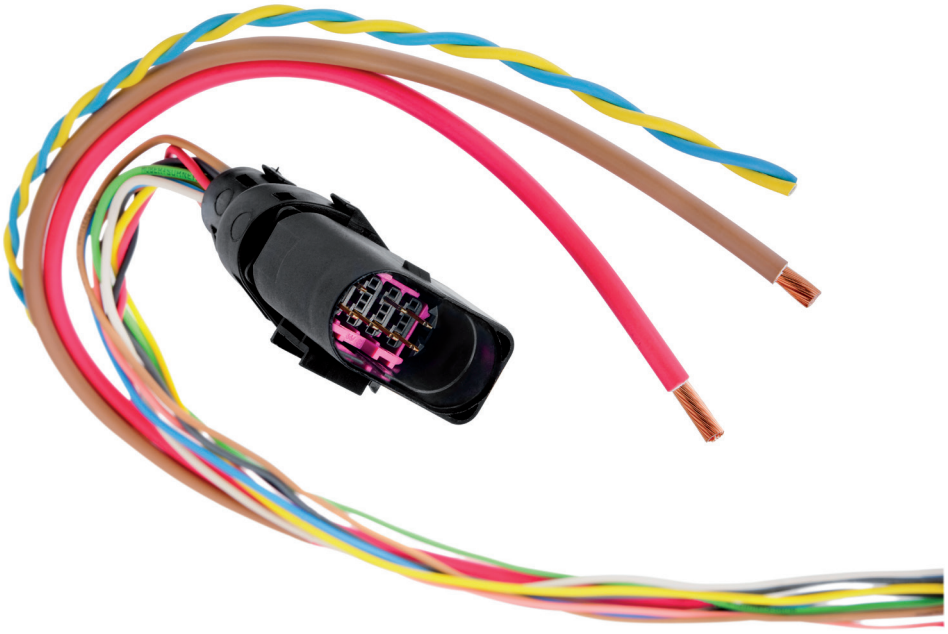
Edition 2020/09

hubersuhner.com

specialist electronic materials

HUBER+SUHNER

RADOX® automotive single core cables



Low voltage cable for road vehicles, class D and F according to ISO 6722 and ISO 19642, temperature rating –40 to +150 °C/200 °C

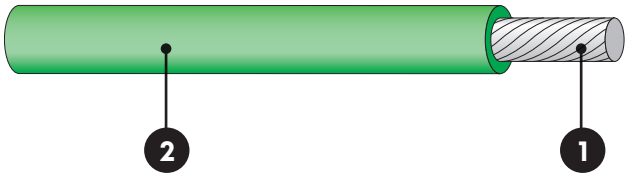
A growing demand of sensors, higher operating temperatures and restricted space are typical in today's motor compartments. These cables have been developed with these specific requirements in mind.

These cables are class D temperature range cables with reduced outer diameter. They have superb resistanceto motor oils, fluids and hydrolysis. Thanks to their electron beam cross-linked RADOX insulation, these cables have excellent resistance to extremes of temperature and abrasion even with reduced outer diameter. Furthermore these RADOX cables have outstanding electrical characteristics.

The characteristics of these RADOX cables make them ideal for use in a wide range of applications, where space is at a premium and where cables are subjected to high temperatures. Even high humidity levels and motor vehicle fluids do not negatively affect the lifetime of the cables.

General features
- Operating temperature range –55 to +200 °C
- Reduced outer diameter
- Resistant to motor fluids, fuels
- Hydrolysis resistant
- Resistant to pressure at high temperatures
- High abrasion resistance
- Excellent electrical characteristics

RADOX® 155S RW (FLU91X)



Number of conductors	1
Cross section	0.14 to 1 mm²
Voltage rating	60 V DC
Temperature range	−55 to +150 °C (3000 h)
Min. bending radius	3 × cable dia.

Composition of cable

1. Conductor — stranded, tin plated
2. Insulation — RADOX 155S, extruded irradiation cross-linked polyolefin, various colours

Characteristics and specialities

- High and low temperature resistance
- Ozone and weathering resistance
- Resistant to pressure at high temperature
- Resistant to motor oils, fuels and hydrolysis
- Flame retardant
- High abrasion resistance
- Easy to strip and process

Application

Low voltage cable for use in road vehicle applications, such as motor wiring, fan motor or sensor applications.

Standards

Conductor	General
ISO 6722, ISO 19642-3 and -5	ISO 6722, ISO 19642-3 and -5, class D, ultra thin-wall
DIN EN 13602, Cu-ETP1-A (CW003A)	

For further technical details please refer to our data sheets STD 548401 and STD 583960.

RADOX® 155S RW (FLU91X)

Extract from our delivery programme

Cross section	Conductor				Core		
Nominal mm²	**Number of individual wires**	**Diameter of individual wires max. mm**	**Diameter max. mm**	**Resistance at 20 °C max. Ω/km, bare**	**Wall thickness min. mm**	**Diameter mm**	**Weight nominal kg/100 m**
0.35	7	0.26	0.80	52.0	0.20	1.25 ± 0.05	0.4
0.5	19	0.19	1.00	37.1	0.20	1.40 ± 0.05	0.6
0.75	19	0.23	1.20	24.7	0.21	1.65 ± 0.05	0.8
1.0	19	0.26	1.35	18.5	0.22	1.80 ± 0.05	1.0
1.25	19	0.29	1.40	15.5	0.23	2.00 ± 0.05	1.3
1.5	19	0.32	1.70	12.7	0.23	2.10 ± 0.05	1.5

Datasheet STD 583960