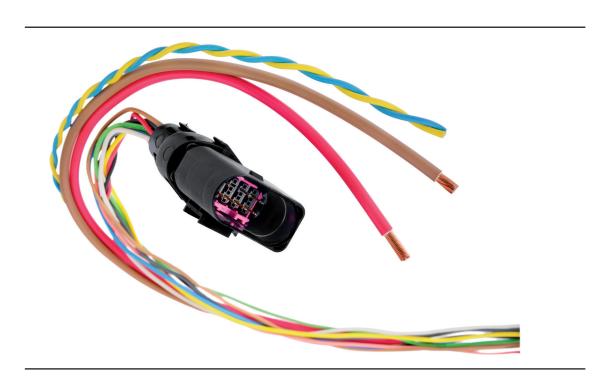








RADOX® automotive single core cables



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 resistance to 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 FLR	8
RADOX 155S RW	10
ETFE	12
RADOX anticapillary	14

RADOX® 155S FLR (FLR91X and FHLR91X)



Number of conductors Cross section Voltage rating

0.35 to 6 mm² 60/1500 V DC Temperature range -55 to +150 °C (3000 h) Min. bending radius $3 \times$ cable dia.

Composition of cable

1. Conductor stranded tinned or bare copper

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, thin-wall				
DIN EN 13602, Cu-ETP1-A (CW003A)					

Customer approvals

- GMW 15626
- VW 60306-1
- Ford ES-AU5T-1A348-AA
- BMW GS 95007
- FCA MS.90034
- JLR TPJLR.18.007
- Scania TB1914
- Volvo STD 525-001
- Bosch N34A AE011D S007

For further technical details please refer to our data sheet STD 548776.

RADOX® 155S FLR (FLR91X and FHLR91X)

Extract from our delivery programme

Dimensions according to ISO 6722-1/ISO 19642, structure A

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		Wall thickness min. mm	Diameter mm
				tinnel	bare		
0.35	7	0.26	0.8	55.5	54.4	0.20	1.25 ± 0.05
0.5	19	0.19	1.0	38.2	37.1	0.22	1.5 ± 0.1
0.75	19	0.23	1.2	25.4	24.7	0.24	1.8 ± 0.1
1	19	0.26	1.3	19.1	18.5	0.24	2.0 ± 0.1
1.5	19	0.32	1.7	13.0	12.7	0.24	2.3 ± 0.1
2.5	19	0.41	2.2	7.82	7.60	0.28	2.85 ± 0.15
2.5	37	0.29	2.2	7.82	7.60	0.28	2.85 ± 0.15
4	37	0.38	2.6	4.85	4.71	0.32	3.55 ± 0.15
6	37	0.45	3.1	3.23	3.14	0.32	4.15 ± 0.15

Datasheet STD 548776

Dimensions according to ISO 6722-1/ISO 19642, structure B

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		Wall thickness min. mm	Diameter mm
				tinnel	bare		
0.75	24	0.21	1.2	25.4	24.7	0.24	1.8 ± 0.1
1	32	0.21	1.3	19.1	18.5	0.24	2.0 ± 0.1
1.5	30	0.26	1.7	13.0	12.7	0.24	2.3 ± 0.1
2.5	50	0.26	2.2	7.82	7.60	0.28	2.85 ± 0.15
4	56	0.31	2.6	4.85	4.71	0.32	3.55 ± 0.15
6	84	0.31	3.1	3.23	3.14	0.32	4.15 ± 0.15

Datasheet STD 548776