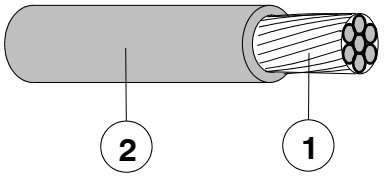
Automotive cable, flexible
RADOX 155S FLR (FLR91X and FHLR91X)

General Properties:

Excellent resistance to high and low temperature, ozone, UV and weathering resistance, resistant to pressure at high temperature, motor oil, fuels and hydrolysis, flame retardant, high abrasion resistant, solder iron resistant, easy to strip and process, according to ISO 6722-1 class D, ISO 19642-3 class D, ISO 19642-5 class D.
Complies with EU-directive 2000/53/EG on end of life vehicles. All materials are free from lead, mercury, cadmium and chrome VI.

Application:

Cable, for use in road vehicle applications.



1. Conductor: Tinned or bare copper, stranded
2. Insulation: RADOX 155S (91X)
   extruded irradiation crosslinked polyolefin
   Colours: BK, BN, BU, GN, GY, OG, PK, RD, VT, WH, YE

Technical Data:

Voltage rating DC	< 0.5 mm²	60 V
	≥ 0.5 mm²	1500 V
Test voltage AC	< 0.5 mm²	3000 V
	= 0.5 mm²	5000 V
	> 0.5 mm²	8000 V
Temperature range (3000 h)		-40 ... +150 °C
Min. bending radius		3 x cable D

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 tinned	bare	Wall thickness min. mm	Diameter mm
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

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 tinned	bare	Wall thickness min. mm	Diameter mm
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

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