



Automotive cable, screened Radox Elastomer S

GENERAL PROPERTIES :

Excellent high temperature, low temperature, ozone and weathering resistance.

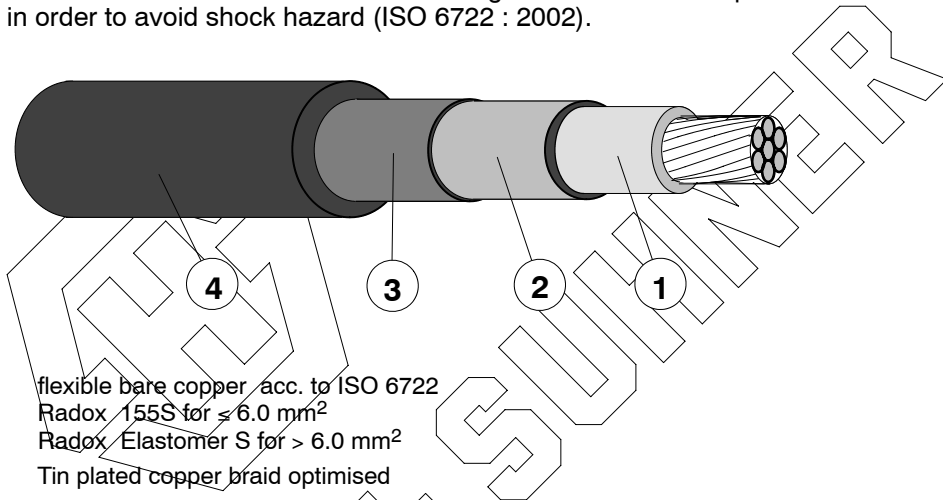
Outstanding resistance against, battery acid, diesel, various oils, engine coolant and window washer fluids. Besides that, good resistance against humidity, petrol and brake fluids. Flame retardant, soldering iron resistant, easy to strip and process.

Complies with EU-directive 2000/53/EG on end of life vehicles. It is free from lead, mercury, cadmium and chrome VI.

APPLICATION :

Screened power cable for use in hybrid vehicles.

CAUTION Special care shall be taken for cables used with voltages above 60 VDC to protect them from mechanical stress in order to avoid shock hazard (ISO 6722 : 2002).



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|----|---------------------------|---|
| 1. | Conductor:
Insulation: | flexible bare copper acc. to ISO 6722
Radox 155S for $\leq 6.0 \text{ mm}^2$
Radox Elastomer S for $> 6.0 \text{ mm}^2$ |
| 2. | EMC-screen: | Tin plated copper braid optimised |
| 3. | Wrapping: | Plastic Tape (Polyester) |
| 4. | Sheath: | Radox Elastomer S, colour: orange |

Technical Data :

Voltage rating cond.-earth	U ₀	600	V AC
Voltage rating cond.-cond.	U	1000	V AC
maximum permissible Voltage rating AC cond.-earth		720	V AC
maximum permissible Voltage rating AC cond.-cond.	U _m	1200	V AC
maximum permissible Voltage rating DC cond.-earth	V ₀	900	V DC
maximum permissible Voltage rating DC cond.-cond.		1500	V DC
Test voltage, 1 Min.		3.5	kV AC
		8.4	kV DC
Temperature range (3000 h)		- 40 ... + 150	°C
Min. bending radius	fixed	4 x cable D	

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Cross-section nominal mm ²	Conductor				Cable						H + S Part No.
	Number of individual wires Guide value	Diameter of individual wires max. mm	Diameter max. mm	Resistance at 20°C max. Ω/km	Diameter of Insulation nom. mm	Diameter of Screen max. mm	Overall-Diameter nominal mm	Z _T at <30MHz nominal mΩ/m	Weight nominal kg/100m		
2.5	50	0.26	2.2	7.6	2.85	3.3	5.0 ± 0.3	100	4.8	12 582 675	
4	56	0.31	2.75	4.71	3.55	4.0	5.8 ± 0.3	80	7.0	12 582 674	
6	84	0.31	3.3	3.14	4.15	4.7	6.6 ± 0.3	70	10.0	12 582 309	
10	78	0.41	4.4	1.82	5.75	6.3	8.4 ± 0.3	70	15.6	12 582 189	
16	126	0.41	5.5	1.16	6.90	7.5	9.8 ± 0.3	50	23.0	12 581 931	
25	189	0.41	6.7	0.743	8.20	8.9	11.2 ± 0.3	50	33.0	12 581 932	
35	273	0.41	7.9	0.527	9.70	10.4	12.7 ± 0.3	30	44.5	12 582 072	
50	385	0.41	9.4	0.368	11.5	12.8	14.9 ± 0.3	30	63.2	12 568 732	
70	360	0.51	11.5	0.259	13.6	14.5	17.0 ± 0.3	20	85.0	12 568 704	
95	468	0.51	13.6	0.196	16.0	17.1	19.6 ± 0.4	20	109	12 581 933	
120	570	0.51	14.6	0.153	17.3	18.4	20.9 ± 0.4	20	133	12 581 934	