



Automotive cable, screened Radox Elastomer S

General Properties:

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

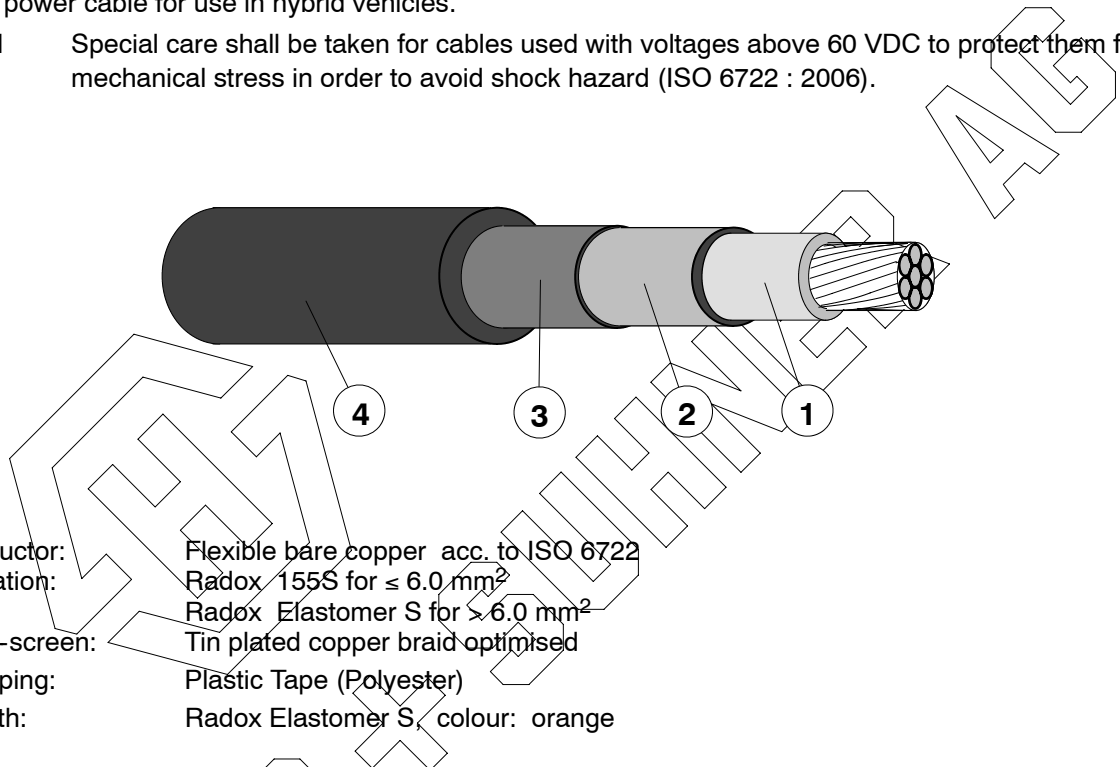
Outstanding resistance against, battery acid, diesel, various oils, engine coolant and window washer fluids. Besides that, good resistance against humidity, petro and brake fluids. Flame retardant, soldering iron resistant, easy to strip and process.

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 : 2006).



1. Conductor: Flexible bare copper acc. to ISO 6722
Insulation: 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	1'000	V AC
maximum permissible Voltage rating AC cond.-earth		720	V AC
maximum permissible Voltage rating AC cond.-cond.	U _m	1'200	V AC
maximum permissible Voltage rating DC cond.-earth	V ₀	900	V DC
maximum permissible Voltage rating DC cond.-cond.		1'500	V DC
Test voltage, 50 Hz, 1 min.		3.5	kV AC
		8.4	kV DC
Temperature range (3'000 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 30 MHz 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	11.6	0.259	13.7	14.6	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	608	0.51	15.6	0.153	17.4	18.5	21.6 ± 0.4	20	135	12 581 934