



Automotive cable, flexible

RADOX Elastomer S Battery Cable

General Properties:

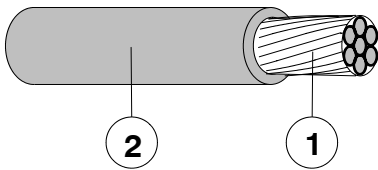
Excellent resistance to high and low temperature, ozone, UV and weathering resistance, resistant to pressure at high temperature, motor oil, fuels and hydrolysis, flame retardant, high abrasion resistant, solder iron resistant, easy to strip and process, according to ISO 6722 class D.

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

Application:

Low voltage cable, for use in road vehicle applications.

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: Stranded bare copper, acc. ISO 6722
2. Insulation: RADOX Elastomer S (REMS) extruded irradiation crosslinked copolymer
Colours: various

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	3 x cable D	
	flexing	5 x cable D	

Cross-section nominal mm ²	Conductor				Cable		
	Number of individual wires Guide value	Diameter of individual wires max. mm	Diameter max. mm	Resistance at 20° C max. Ω/km	Wall thickness min. mm	Weight nom. kg/100 m	Diameter nom. mm
10	78	0.41	4.3	1.82	0.50	10.6	5.75 ± 0.15
12	92	0.41	4.6	1.52	0.50	12.1	6.05 ± 0.15
16	126	0.41	5.5	1.16	0.52	16.4	6.90 ± 0.20
20	154	0.41	6.3	0.955	0.52	20.0	7.70 ± 0.20
25	189	0.41	6.7	0.743	0.55	24.2	8.20 ± 0.20
30	224	0.41	7.4	0.647	0.65	29.1	9.10 ± 0.20
35	273	0.41	7.9	0.527	0.65	34.5	9.70 ± 0.25
50	385	0.41	9.4	0.368	0.80	48.6	11.50 ± 0.25
70	360	0.51	11.6	0.259	0.80	68.7	13.70 ± 0.25
95	480	0.51	13.5	0.196	0.90	93.6	16.25 ± 0.30
120	589	0.51	15.1	0.153	0.90	114.7	18.00 ± 0.30

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The product fulfils the test and specification requirements described in this document for the stated areas of application and operating conditions. HUBER+SUHNER AG does not expressly or implicitly guarantee performance under additional or changed conditions. Deviations are to be agreed upon in writing.

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