



# Automotive cable, flexible

## RADOX Elastomer S Battery Cable

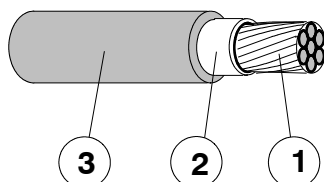
### General Properties:

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.



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

Printing on Sheath, for items with „PY“ in the description:  
HUBER+SUHNER RADOX [part. No.] - [batch. No.] [prod. week-year]

### Technical Data:

Voltage rating cond.- earth	U <sub>0</sub>	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 <sub>m</sub>	1'200	V AC
maximum permissible Voltage rating DC cond.- earth	V <sub>0</sub>	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 <sup>2</sup>	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	10.7	5.75 ± 0.15
12	92	0.41	4.65	1.52	0.50	12.1	6.05 ± 0.15
16	126	0.41	5.4	1.16	0.52	16.7	6.90 ± 0.20
20	154	0.41	6.2	0.955	0.52	20.2	7.60 ± 0.20
25	189	0.41	6.7	0.743	0.55	24.5	8.20 ± 0.20
30	224	0.41	7.4	0.647	0.64	29.9	9.10 ± 0.25
35	273	0.41	7.9	0.527	0.65	35.4	9.70 ± 0.25
50	385	0.41	9.4	0.368	0.80	49.8	11.50 ± 0.25
70	360	0.51	11.6	0.259	0.80	70.4	13.70 ± 0.25
95	480	0.51	13.5	0.196	0.90	95.0	16.25 ± 0.30
120	589	0.51	15.1	0.153	0.90	115.9	18.00 ± 0.30

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