



RADOX[®] Battery Cable thinwall, flexible

**Low voltage cable for road vehicles, Class D according to ISO 6722,
Operating temperature -40 °C to +150 °C**

RADOX[®] battery cables are high temperature resistant products with a reduced outer diameter. They are available with two different jacket materials which fulfill the varied demands very easily.

The cable is highly resistant to temperature, ozone, weathering, hydrolysis and has excellent resistance to battery acid and cooling agents. It is also resistant against motor oils, fuels and other fluids used inside and outside of the motor compartment.

Thanks to its electron beam crosslinked RADOX[®] insulation the cable has despite the reduced outer diameter excellent resistance to heat pressure and abrasion. In addition the RADOX[®]

battery cable has outstanding dielectric properties and the flame retardant insulation does not melt or flow at high temperatures and is easy to strip.

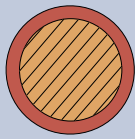
- Operating temperature -40 °C to +150 °C
- Outstanding flexibility
- Reduced outer diameter
- Resistant to motor oils, battery acid and fuels
- High resistance to heat pressure
- Excellent abrasion resistance

These products are manufactured in a ISO/TS 16949 certified work-site

These products comply with the EU-directive (2000/53/EC) on end of life vehicles and are free from lead, mercury and chrome VI.



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Conductor: stranded copper, plain, flexible, according to ISO 6722
 Insulation: RADOX® 155 (crosslinked Polyolefin) or RADOX® Elastomer S (REMS; crosslinked Copolymer), various colors

Insulation RADOX® 155

| Cross-section mm ² | Conductor construction n x mm Ø | Conductor diameter max. mm | Resistance at 20 °C max. Ω/km | Insulation wall thickness min. mm | Cable diameter mm | Weight kg/100 m |
|----------------------------------|------------------------------------|-------------------------------|----------------------------------|--------------------------------------|----------------------|--------------------|
| 4 | 56 x 0.31 | 2.8 | 4.71 | 0.32 | 3.55 ± 0.15 | 4.10 |
| 6 | 84 x 0.31 | 3.3 | 3.14 | 0.32 | 4.15 ± 0.15 | 6.00 |
| 10 | 78 x 0.41 | 4.4 | 1.82 | 0.53 | 5.75 ± 0.15 | 10.2 |
| 16 | 126 x 0.41 | 5.6 | 1.16 | 0.60 | 6.90 ± 0.15 | 15.0 |
| 25 | 189 x 0.41 | 6.7 | 0.743 | 0.60 | 8.20 ± 0.15 | 24.0 |
| 35 | 273 x 0.41 | 7.9 | 0.527 | 0.70 | 9.70 ± 0.20 | 34.2 |
| 50 | 385 x 0.41 | 9.4 | 0.368 | 0.80 | 11.5 ± 0.20 | 48.5 |
| 70 | 564 x 0.41 | 12.1 | 0.259 | 0.80 | 14.2 ± 0.25 | 68.0 |

Insulation RADOX® Elastomer S (REMS) - enhanced oil resistance and higher flexibility (equivalent to class 6 conductor)

| Cross-section mm ² | Conductor construction n x mm Ø | Conductor diameter max. mm | Resistance at 20 °C max. Ω/km | Insulation wall thickness min. mm | Cable diameter mm | Weight kg/100 m |
|----------------------------------|------------------------------------|-------------------------------|----------------------------------|--------------------------------------|----------------------|--------------------|
| 4 | 56 x 0.31 | 2.8 | 4.71 | 0.32 | 3.55 ± 0.15 | 4.15 |
| 6 | 84 x 0.31 | 3.3 | 3.14 | 0.32 | 4.15 ± 0.15 | 6.10 |
| 10 | 78 x 0.41 | 4.4 | 1.82 | 0.53 | 5.75 ± 0.15 | 10.4 |
| 16 | 126 x 0.41 | 5.6 | 1.16 | 0.60 | 6.90 ± 0.15 | 15.4 |
| 25 | 189 x 0.41 | 6.7 | 0.743 | 0.60 | 8.20 ± 0.15 | 24.2 |
| 35 | 273 x 0.41 | 7.9 | 0.527 | 0.70 | 9.70 ± 0.20 | 34.5 |
| 50 | 385 x 0.41 | 9.4 | 0.368 | 0.80 | 11.5 ± 0.20 | 49.0 |
| 70 | 564 x 0.41 | 12.1 | 0.259 | 0.80 | 14.2 ± 0.25 | 68.6 |

Tinned conductors, larger cross-sections or screened versions are available on request.

Technical Specification

| | |
|---------------------|-------------------|
| Voltage rating | 60 V DC |
| Test voltage | 5000 V |
| Temperature range | -40 °C to +150 °C |
| Min. bending radius | 3 x D |

HUBER+SUHNER Group is certified according to
 ISO 9001 und ISO 14001

Waiver

While the information contained in this flyer has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the suitability of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The suitability of each product for any particular purpose must be checked beforehand with our specialists.



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