

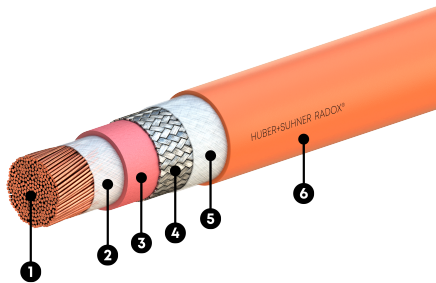
RADOX 155(S) / RADOX Elastomer S (FHLR91XC13X and FHLR4GC13X)  
Automotive cable, single-core, screened, flexible

Properties

- Excellent resistance to :
- High and low temperature
- Ozone, UV and weathering resistance
- To pressure at high temperature
- Motor oil, fuels and hydrolysis
- To pressure at high temperature
- Motor oil, fuels and hydrolysis
- Design according to ISO 19642-9 class D and ISO 6722-1 class D
- Complies with EU- directive 2000/53/EG on end of life vehicles.
- All materials are free from lead, mercury, cadmium and chrome VI.

Application

Cable, for use in road vehicle applications



| Construction |            |                                                                          |
|--------------|------------|--------------------------------------------------------------------------|
| 1.           | Conductor  | Bare copper, stranded according to ISO 6722-1 / ISO 19642-9, structure B |
| 2.           | Coverage   | Tape                                                                     |
| 3.           | Insulation | RADOX 155S (91X) for ≤ 6 mm²                                             |
|              | Colour     | Red                                                                      |
| 4.           | EMC-screen | Tin plated copper braid optimized                                        |
| 5.           | Wrapping   | Tape                                                                     |
| 6.           | Sheath     | RADOX Elastomer S (13X)                                                  |
|              | Colour     | Orange                                                                   |

RADOX 155(S) / RADOX Elastomer S (FHLR91XC13X and FHLR4GC13X)

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| Marking                                                      |                           |          |
|--------------------------------------------------------------|---------------------------|----------|
| H+S [a] - [b] ⚡ ATTENTION HIGH VOLTAGE MAX 1000VAC/1500VDC ⚡ |                           |          |
|                                                              |                           | Example: |
| [a]                                                          | H+S part number           | 12345678 |
| [b]                                                          | H+S production lot number | 1234567  |

| Technical data- electrical |                          |
|----------------------------|--------------------------|
| Voltage rating AC          | U <sub>0</sub> 1000 V AC |
| Voltage rating DC          | V <sub>0</sub> 1500 V DC |
| Test voltage, 50Hz, 5min   | 10000 V AC               |

| Technical data- mechanical  |                   |
|-----------------------------|-------------------|
| Temperature range (3000h)   | -40 °C ... +150°C |
| Min. bending radius fixed   | 4 x D             |
| Min. bending radius flexing | 6 x D             |

| RADOX 155(S)/ RADOX Elastomer S (FHLR91XC13X and FHLR4GC13X) |              |           |                         |                               |                                |                             |                            |                                               |                                                       |                 |
|--------------------------------------------------------------|--------------|-----------|-------------------------|-------------------------------|--------------------------------|-----------------------------|----------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------|
| Core<br>Size<br><br>[mm²]                                    | Conductor    |           |                         | Wall<br>Thickness<br><br>[mm] | Insulator<br>ø<br>nom.<br>[mm] | Screen<br>ø<br>max.<br>[mm] | Cable<br>ø<br>nom.<br>[mm] | Z <sub>T</sub> at<br>30 MHz<br>nom.<br>[mΩ/m] | Cable weight<br>nom.<br>Tolerance<br>±3%<br>[kg/100m] | H+S<br>Part No. |
|                                                              | Type<br>nom. | ø<br>max. | R <sub>20</sub><br>max. |                               |                                |                             |                            |                                               |                                                       |                 |
|                                                              | [nxmm]       | [mm]      | [Ω/km]                  |                               |                                |                             |                            |                                               |                                                       |                 |
| 1 X 2.5                                                      | 50X0.26      | 2         | 7.6                     | 0.32                          | 2.85                           | 3.5                         | 5±0.2                      | 150                                           | 4.9                                                   | 12582675**      |
| 1 X 4.0                                                      | 56X0.31      | 2.5       | 4.71                    | 0.4                           | 3.55                           | 4.2                         | 5.8±0.2                    | 110                                           | 7                                                     | 12582674        |
| 1 X 6.0                                                      | 84X0.31      | 3         | 3.14                    | 0.45                          | 4.15                           | 4.9                         | 6.6±0.3                    | 70                                            | 9.8                                                   | 12582309        |
| 1 X 8.0                                                      | 60X0.41      | 3.8       | 2.38                    | 0.47                          | 5.05                           | 5.8                         | 7.6±0.3                    | 40                                            | 12.5                                                  | 84119801        |
| 1 X 10.0                                                     | 78X0.41      | 4.3       | 1.82                    | 0.52                          | 5.75                           | 6.5                         | 8.4±0.3                    | 30                                            | 15.8                                                  | 84100295        |
| 1 X 12.0                                                     | 92 X 0.41    | 4.7       | 1.52                    | 0.52                          | 6.1                            | 6.7                         | 8.9±0.3                    | 30                                            | 17.9                                                  | 84119803        |
| 1 X 16.0                                                     | 126X0.41     | 5.4       | 1.16                    | 0.54                          | 6.9                            | 7.7                         | 9.7±0.3                    | 40                                            | 23                                                    | 84116032        |
| 1 X 20.0                                                     | 154X0.41     | 6.2       | 0.955                   | 0.49                          | 7.6                            | 8.5                         | 10.6±0.3                   | 30                                            | 28.2                                                  | 84119804        |
| 1 X 25.0                                                     | 189X0.41     | 6.7       | 0.743                   | 0.57                          | 8.2                            | 9.1                         | 11.2±0.3                   | 40                                            | 32.8                                                  | 84100604        |
| 1 X 35.0                                                     | 273X0.41     | 7.9       | 0.527                   | 0.65                          | 9.7                            | 10.7                        | 12.7±0.3                   | 60                                            | 44.7                                                  | 84100296        |
| 1 X 40.0                                                     | 301X0.41     | 8.5       | 0.473                   | 0.69                          | 10.4                           | 11.6                        | 13.6±0.3                   | 20                                            | 51.3                                                  | 84119806        |
| 1 X 50.0                                                     | 385X0.41     | 9.4       | 0.368                   | 0.78                          | 11.5                           | 12.9                        | 14.9±0.3                   | 30                                            | 64.2                                                  | 84096257        |
| 1 X 70.0                                                     | 360X0.51     | 11.6      | 0.259                   | 0.78                          | 13.7                           | 14.9                        | 17±0.3                     | 30                                            | 85.8                                                  | 84100298        |
| 1 X 95.0                                                     | 480X0.51     | 13.5      | 0.196                   | 1.03                          | 16.2                           | 17.6                        | 19.9±0.4                   | 20                                            | 115.3                                                 | 84100299        |
| 1 X 120.0                                                    | 589X0.51     | 15.1      | 0.153                   | 1.12                          | 18                             | 19.4                        | 22.6±0.4                   | 20                                            | 145.5                                                 | 84103410        |
| 1 X 150.0                                                    | 741X0.51     | 17        | 0.122                   | 1.16                          | 20                             | 21.6                        | 24.9±0.5                   | 30                                            | 177.4                                                 | 84111254        |

\*\*Insulation colour black

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