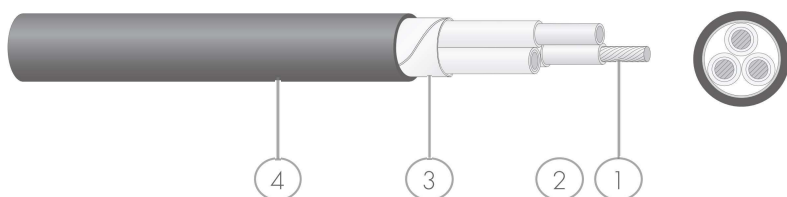


# RADOX® 3 GKW 600V XM

multi core

|                      |                          |                   |                |
|----------------------|--------------------------|-------------------|----------------|
| Conductor            | EN 60228, class 5        | Voltage rating    | 600/1000 V AC  |
| Number of conductors | 2 - ...                  |                   | 900/1500 V DC  |
| Cross section        | 0.5 - 35 mm <sup>2</sup> | Temperature range | -50 to +120 °C |



## Composition of cable

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| 1. Cores                | 3 GKW 600V<br>colours: grey, numbered or with green-yellow |
| 2. Fillers (optional)   | RADOX 125 REC                                              |
| 3. Separator (optional) | tape                                                       |
| 4. Sheath               | RADOX EM 104<br>colour: black                              |

## Characteristics and specialities

- Resistance to oil, diesel oil, abrasion, ozone and weathering
- Soldering resistant
- Easy to strip
- Flexible
- Weight optimised

## Application

- Typical applications include carriage wiring, terminal boxes, power supply to various systems and ground connections inside railway rolling stock at fixed or sporadic moving installations.
- Guidelines for selection and the installation are described in the standards EN 50355 and EN 50343.

## Standards

| Standard        | Fire protection on railway vehicles |                                     |
|-----------------|-------------------------------------|-------------------------------------|
| DIN 5510-2      | hazard level                        | 1, 2, 3, 4                          |
| EN 45545-2      |                                     |                                     |
| GOST 31565      |                                     |                                     |
| NFF 16-101      | class, category                     | C/F0, int. A1, A2, B/ext. A1, A2, B |
| UNI CEI 11170-3 |                                     |                                     |

For further technical details please refer to our data sheet.



# RADOX® 3 GKW 600V XM

multi core

| Construction        | Conductor               | Core                    | Cable      | Conductor resistance         | Capacity*    | Fire load    | Weight             |                   | Item no. |
|---------------------|-------------------------|-------------------------|------------|------------------------------|--------------|--------------|--------------------|-------------------|----------|
| n × mm <sup>2</sup> | D <sub>nom.</sub><br>mm | D <sub>nom.</sub><br>mm | D<br>mm    | R <sub>20</sub> max.<br>Ω/km | CH20<br>pF/m | nom.<br>kJ/m | Copper<br>kg/100 m | Cable<br>kg/100 m |          |
| 2 × 0.75            | 1.10                    | 2.20                    | 6.4 ± 0.3  | 26.7                         | 110          | 633          | 1.4                | 6                 | 12561181 |
| 3 × 0.75            | 1.10                    | 2.20                    | 6.8 ± 0.3  | 26.7                         | 110          | 690          | 2                  | 7                 | 12561182 |
| 4 × 0.75            | 1.10                    | 2.20                    | 7.6 ± 0.3  | 26.7                         | 110          | 820          | 2.7                | 8.8               | 12561183 |
| 5 G 0.75            | 1.10                    | 2.20                    | 8.4 ± 0.3  | 26.7                         | 110          | 990          | 3.4                | 11                | 12581529 |
| 7 G 0.75            | 1.10                    | 2.20                    | 10.0 ± 0.3 | 26.7                         | 110          | 1453         | 4.8                | 15                | 12568622 |
| 2 × 1               | 1.22                    | 2.45                    | 6.9 ± 0.3  | 20.0                         | 120          | 560          | 1.8                | 7.2               | 12561190 |
| 4 × 1               | 1.22                    | 2.45                    | 8.4 ± 0.3  | 20.0                         | 120          | 989          | 3.6                | 11                | 12561192 |
| 6 × 1               | 1.22                    | 2.45                    | 10.0 ± 0.3 | 20.0                         | 120          | 1240         | 5.4                | 16                | 12561194 |
| 9 × 1               | 1.22                    | 2.45                    | 12.5 ± 0.4 | 20.0                         | 120          | 1830         | 8.1                | 22                | 12561196 |
| 2 × 1.5             | 1.50                    | 2.70                    | 7.5 ± 0.3  | 13.7                         | 120          | 840          | 2.8                | 8.6               | 12561199 |
| 3 × 1.5             | 1.50                    | 2.70                    | 8.0 ± 0.3  | 13.7                         | 120          | 770          | 4.2                | 11                | 12561200 |
| 3 G 1.5             | 1.50                    | 2.70                    | 8.0 ± 0.3  | 13.7                         | 120          | 770          | 4.2                | 11                | 12563588 |
| 4 × 1.5             | 1.50                    | 2.70                    | 9.0 ± 0.3  | 13.7                         | 120          | 1111         | 5.2                | 14                | 12561201 |
| 5 × 1.5             | 1.50                    | 2.70                    | 10.2 ± 0.4 | 13.7                         | 120          | 1430         | 7                  | 17                | 12561202 |
| 7 × 1.5             | 1.50                    | 2.70                    | 12.1 ± 0.4 | 13.7                         | 120          | 2073         | 9.2                | 24                | 12561204 |
| 7 G 1.5             | 1.50                    | 2.70                    | 12.1 ± 0.4 | 13.7                         | 120          | 1660         | 9.8                | 24                | 12564173 |
| 2 × 2.5             | 1.95                    | 3.30                    | 8.8 ± 0.3  | 8.21                         | 130          | 1101         | 4.4                | 12                | 12561208 |
| 3 × 2.5             | 1.95                    | 3.30                    | 9.5 ± 0.3  | 8.21                         | 130          | 1212         | 6.5                | 16                | 12561085 |
| 4 × 2.5             | 1.95                    | 3.30                    | 10.7 ± 0.4 | 8.21                         | 130          | 1510         | 8.7                | 20                | 12561209 |
| 7 G 2.5             | 1.95                    | 3.30                    | 14.0 ± 0.4 | 8.21                         | 130          | 2718         | 15                 | 24                | 12567592 |
| 2 × 4               | 2.46                    | 3.95                    | 10.4 ± 0.4 | 5.09                         | 150          | 1532         | 6.9                | 18                | 12561216 |
| 3 × 4               | 2.46                    | 3.95                    | 11.1 ± 0.4 | 5.09                         | 150          | 1571         | 10                 | 22                | 12561822 |
| 4 × 4               | 2.46                    | 3.95                    | 12.4 ± 0.4 | 5.09                         | 150          | 2017         | 14                 | 29                | 12561823 |
| 2 × 6               | 2.95                    | 4.70                    | 12.1 ± 0.4 | 3.39                         | 150          | 2058         | 10                 | 26                | 12567458 |
| 3 × 6               | 2.95                    | 4.70                    | 12.9 ± 0.4 | 3.39                         | 150          | 2238         | 16                 | 32                | 12561824 |
| 4 × 6               | 2.95                    | 4.70                    | 14.6 ± 0.4 | 3.39                         | 150          | 2660         | 21                 | 42                | 12561080 |
| 7 × 6               | 2.95                    | 4.70                    | 20.3 ± 0.5 | 3.39                         | 150          | 5450         | 36                 | 77                | 12581318 |
| 3 × 10              | 3.90                    | 5.85                    | 16.0 ± 0.5 | 1.95                         | 150          | 3312         | 27                 | 51                | 12561825 |
| 4 G 10              | 3.90                    | 5.85                    | 17.9 ± 0.5 | 1.95                         | 150          | 3935         | 36                 | 66                | 12567616 |
| 4 × 10              | 3.90                    | 5.85                    | 17.9 ± 0.5 | 1.95                         | 150          | 3935         | 36                 | 66                | 12561561 |
| 3 × 16              | 5.30                    | 7.25                    | 19.5 ± 0.5 | 1.24                         | 150          | 4792         | 41                 | 75                | 12566137 |
| 4 × 16              | 5.30                    | 7.25                    | 22.1 ± 0.5 | 1.24                         | 150          | 6226         | 54                 | 101               | 12561826 |
| 3 × 25              | 6.60                    | 8.90                    | 23.8 ± 0.5 | 0.795                        | 150          | 6254         | 62                 | 112               | 12565118 |
| 2 × 35              | 7.80                    | 10.20                   | 24.7 ± 0.5 | 0.565                        | 150          | 8055         | 61                 | 115               | 84104053 |
| 4 G 35              | 7.80                    | 10.20                   | 30.3 ± 0.5 | 0.565                        | 150          | 10530        | 121                | 192               | 12567457 |

\* capacity in water, typical value

G: (earth) = green-yellow

X: material not according to EN 50264-1

M: material designation according to EN 50264-1

Additional constructions on request.

