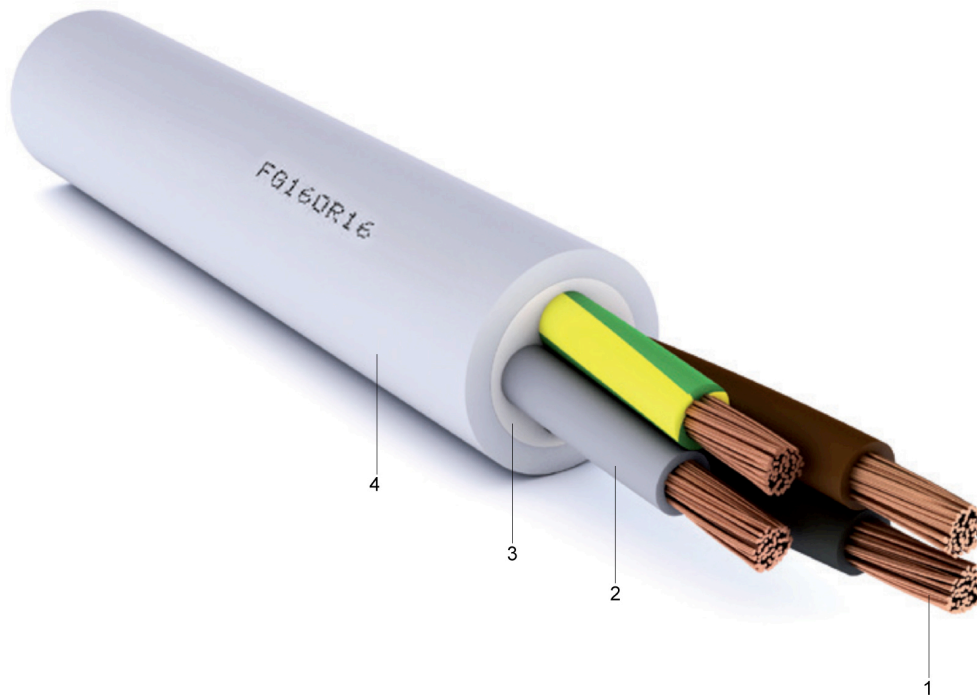


## FG16(O)R16 Power cable insulated with high quality EPM-rubber, with PVC sheath, not propagating fire, with reduced corrosive gas emission

**Application:** This power cable is suitable for fixed installations, preferably in cable ducts, indoors, outdoors, in water or underground if no mechanical damage is to be expected



**Construction:**

- 1 ..... fine wired copper conductor, class 5
- 2 ..... rigid EPM rubber, G16 quality
- 3 ..... thermoplastic compound, fire resistend, non water absorbing
- 4 ..... anti abrasive PVC compound R16 quality, fire retardant, with reduced gas emission

**Information:** at short circuit of max. 5 sec.  
 $\leq 250 \text{ mm}^2 \rightarrow 250^\circ\text{C}$   
 $> 250 \text{ mm}^2 \rightarrow 220^\circ\text{C}$

**Standards:** CEI 20-13  
 IEC 60502-1  
 CEI UNEL 35318 (cables with 1-5 cors)  
 CEI UNEL 35322 (signal, with 6 and more cors)

**Technical data:**

|                         |                  |                   |                 |
|-------------------------|------------------|-------------------|-----------------|
| Nominal voltage $U_0/U$ |                  | [V]               | 600 / 1000 Volt |
| Test voltage            |                  | [V] <sub>AC</sub> | 4000            |
| Temperature range       | in motion        |                   | - 0°C do +90°C  |
|                         | fixed            |                   | -15°C do +90°C  |
| Bending radius          | power (1-5 cors) | x diameter        | 4               |
|                         | signal           | x diameter        | 6               |
| Flammability            | standard         |                   | EN 60332-1-2    |

| Number of cores and nominal cross section | Copper figure | Overall diameter | Weight    | Current carrying capacity ground | Current carrying capacity air |
|---|---------------|------------------|-----------|----------------------------------|-------------------------------|
| mm <sup>2</sup>                           | kg/km         | max mm           | cca kg/km | A                                | A                             |
| 1 x 1,5                                   | 14,4          | 8,2              | 55        | 21                               | 24                            |
| 1 x 2,5                                   | 24            | 8,7              | 66        | 27                               | 33                            |
| 1 x 4                                     | 38,4          | 9,3              | 84        | 35                               | 45                            |
| 1 x 6                                     | 57,6          | 9,9              | 110       | 44                               | 58                            |
| 1 x 10                                    | 96            | 10,9             | 150       | 59                               | 80                            |
| 1 x 16                                    | 153,6         | 11,4             | 220       | 77                               | 107                           |
| 1 x 25                                    | 240           | 13,2             | 310       | 100                              | 135                           |
| 1 x 35                                    | 336           | 14,6             | 410       | 121                              | 169                           |
| 1 x 50                                    | 480           | 16,4             | 560       | 150                              | 207                           |
| 1 x 70                                    | 672           | 18,3             | 760       | 184                              | 268                           |
| 1 x 95                                    | 912           | 20,4             | 960       | 217                              | 328                           |
| 1 x 120                                   | 1152          | 22,4             | 1.210     | 251                              | 383                           |
| 1 x 150                                   | 1440          | 24,8             | 1.480     | 287                              | 444                           |
| 1 x 185                                   | 1776          | 27               | 1.790     | 323                              | 510                           |
| 1 x 240                                   | 2304          | 30,2             | 2.320     | 379                              | 607                           |
| 1 x 300                                   | 2880          | 33               | 2.840     | 429                              | 703                           |
| 1 x 400                                   | 3840          | 36,5             | 3.735     | 500                              | 823                           |

| Number of cores and nominal cross section | Copper figure | Overall diameter | Weight    | Current carrying capacity ground | Current carrying capacity air |
|---|---------------|------------------|-----------|----------------------------------|-------------------------------|
| mm <sup>2</sup>                           | kg/km         | max mm           | cca kg/km | A                                | A                             |
| 2 x 1,5 RE                                | 28,8          | 12               | 130       | 23                               | 26                            |
| 2 x 2,5 RE                                | 48            | 13               | 165       | 30                               | 36                            |
| 2 x 4 RE                                  | 76,8          | 14,2             | 210       | 39                               | 49                            |
| 2 x 6 RE                                  | 115,2         | 15,4             | 270       | 49                               | 63                            |
| 2 x 10 RE                                 | 192           | 17,3             | 390       | 66                               | 86                            |
| 2 x 16 RM                                 | 307,2         | 19,4             | 520       | 86                               | 115                           |
| 3 x 1,5 RE                                | 43,2          | 12,5             | 150       | 19                               | 23                            |
| 3 x 2,5 RE                                | 72            | 13,6             | 190       | 25                               | 32                            |
| 3 x 4 RE                                  | 115,2         | 14,9             | 250       | 32                               | 42                            |
| 3 x 6 RE                                  | 172,8         | 16,2             | 320       | 41                               | 54                            |
| 3 x 10 RE                                 | 288           | 18,2             | 470       | 55                               | 75                            |
| 3 x 16 RE                                 | 460,8         | 20,6             | 640       | 72                               | 100                           |
| 3 x 25 RM                                 | 720           | 24,5             | 960       | 93                               | 127                           |
| 3 x 35 SM                                 | 1008          | 27,3             | 1.290     | 114                              | 158                           |
| 3 x 50 SM                                 | 1440          | 31,2             | 1.785     | 141                              | 192                           |
| 3 x 70 SM                                 | 2016          | 35,6             | 2.700     | 174                              | 246                           |
| 3 x 95 SM                                 | 2736          | 40               | 3.410     | 206                              | 298                           |
| 3 x 120 SM                                | 3456          | 44,4             | 4.340     | 238                              | 346                           |
| 3 x 150 SM                                | 4320          | 49,5             | 5.404     | 272                              | 399                           |
| 3 x 35/25                                 | 1248          | 29,2             | 1.535     | 114                              | 158                           |
| 3 x 50/25                                 | 1680          | 32,4             | 2.020     | 141                              | 192                           |
| 3 x 70/35                                 | 2352          | 37               | 3.030     | 174                              | 246                           |
| 3 x 95/50                                 | 3216          | 42               | 3.915     | 206                              | 298                           |
| 3 x 120/70                                | 4128          | 46,9             | 5.040     | 238                              | 346                           |
| 3 x 150/95                                | 5232          | 52,5             | 6.300     | 272                              | 399                           |
| 4 x 1,5                                   | 57,6          | 13,4             | 170       | 19                               | 23                            |
| 4 x 2,5                                   | 96            | 14,6             | 220       | 25                               | 32                            |
| 4 x 4                                     | 153,6         | 16               | 295       | 32                               | 42                            |
| 4 x 6                                     | 230,4         | 17,5             | 385       | 41                               | 54                            |
| 4 x 10                                    | 384           | 19,8             | 575       | 55                               | 75                            |
| 4 x 16                                    | 614,4         | 22,4             | 795       | 72                               | 100                           |
| 4 x 25                                    | 960           | 26,8             | 1.205     | 93                               | 127                           |

| Number of cores and nominal cross section | Copper figure | Overall diameter | Weight    | Current carrying capacity ground | Current carrying capacity air |
|---|---------------|------------------|-----------|----------------------------------|-------------------------------|
| mm <sup>2</sup>                           | kg/km         | max mm           | cca kg/km | A                                | A                             |
| 5 x 1,5 RE                                | 72            | 14,4             | 195       | 19                               | 23                            |
| 5 x 2,5 RE                                | 120           | 15,6             | 260       | 25                               | 32                            |
| 5 x 4 RE                                  | 192           | 17,3             | 345       | 32                               | 42                            |
| 5 x 6 RE                                  | 288           | 18,9             | 455       | 41                               | 54                            |
| 5 x 10 RE                                 | 480           | 21,5             | 680       | 55                               | 75                            |
| 5 x 16                                    | 768           | 24,4             | 970       | 72                               | 100                           |
| 5 x 25                                    | 1.200         | 29,3             | 1.470     | 93                               | 127                           |
| 5 x 35                                    | 1.680         | 32,8             | 1.990     | 114                              | 158                           |
| 5 x 50                                    | 2.400         | 38,2             | 3.030     | 141                              | 192                           |
| 7 x 1,5 RE                                | 100,8         | 15,4             | 260       | 16                               | 13                            |
| 10 x 1,5 RE                               | 144           | 18,7             | 340       | 16                               | 13                            |
| 12 x 1,5 RE                               | 172,8         | 19,3             | 380       | 12,5                             | 11                            |
| 16 x 1,5 RE                               | 230,4         | 21,1             | 480       | 12,5                             | 11                            |
| 19 x 1,5 RE                               | 273,6         | 22,1             | 535       | 11,5                             | 9                             |
| 24 x 1,5 RE                               | 345,6         | 25,4             | 640       | 11,5                             | 9                             |
| 7 x 2,5 RE                                | 168           | 16,8             | 381       | 21                               | 17,5                          |
| 10 x 2,5 RE                               | 240           | 20,6             | 462       | 21                               | 17,5                          |
| 12 x 2,5 RE                               | 288           | 21,3             | 530       | 17,5                             | 13,5                          |
| 16 x 2,5 RE                               | 384           | 23,3             | 670       | 17,5                             | 13,5                          |
| 19 x 2,5 RE                               | 456           | 24,5             | 755       | 14                               | 12                            |
| 24 x 2,5 RE                               | 576           | 28,3             | 915       | 14                               | 12                            |