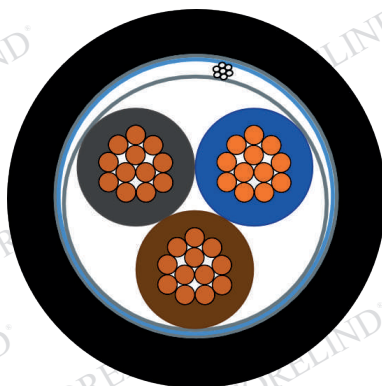


## LOW VOLTAGE SHIELDED CABLE



Drawing is only illustrative

### CABLE CONSTRUCTION AND SPECIFICATIONS

#### CONDUCTOR

SOLID cl. 1 red copper  
RIGID cl. 2 red copper  
FLEXIBLE cl. 5 red copper

#### INSULATION

PVC  
HEPR  
XLPE

#### INNER SHEATH

PVC  
HALOGEN FREE

#### SHIELD

Copper wire braid  
Copper tapes  
Al/PoI Tape + Tinned copper drain wire

#### CHARACTERISTICS

|  |                     |
|--|---------------------|
| Nominal voltage U <sub>0</sub>                         | 0,6 - 1 KV          |
| Maximum operating temperature                          | + 90° C             |
| Maximum short circuit temperature                      | + 250° C            |
| Min. operating temperature (without mechanical shocks) | - 15° C             |
| Minimum installation and use temperature               | 0° C                |
| Minimum bending radius per D cable diameter (in mm)    | 14 D                |
| Minimum pulling stress                                 | During installation |

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## DATASHEET

| Core number        | Cross section      | Approx external production diameter | Approx cable weight |
|--------------------|--------------------|-------------------------------------|---------------------|
| (N°)               | (mm <sup>2</sup> ) | (mm)                                | (kg/km)             |
| <b>TWO CORES</b>   |                    |                                     |                     |
| 2x                 | 1.5                | 12.7                                | 241                 |
| 2x                 | 2.5                | 13.7                                | 280                 |
| 2x                 | 4                  | 14.9                                | 336                 |
| 2x                 | 6                  | 16.1                                | 395                 |
| 2x                 | 10                 | 18.2                                | 567                 |
| 2x                 | 16                 | 20.4                                | 738                 |
| 2x                 | 25                 | 24.0                                | 1107                |
| 2x                 | 35                 | 26.6                                | 1403                |
| 2x                 | 50                 | 30.5                                | 1830                |
| 2x                 | 70                 | 34.3                                | 2571                |
| 2x                 | 95                 | 38.6                                | 3143                |
| 2x                 | 120                | 43.0                                | 4316                |
| 2x                 | 150                | 47.5                                | 5547                |
| <b>THREE CORES</b> |                    |                                     |                     |
| 3x                 | 1.5                | 13.3                                | 262                 |
| 3x                 | 2.5                | 14.3                                | 316                 |
| 3x                 | 4                  | 15.6                                | 380                 |
| 3x                 | 6                  | 16.9                                | 456                 |
| 3x                 | 10                 | 19.2                                | 675                 |
| 3x                 | 16                 | 21.5                                | 939                 |
| 3x                 | 25                 | 25.4                                | 1346                |
| 3x                 | 35                 | 28.3                                | 1744                |
| 3x                 | 50                 | 32.4                                | 2262                |
| 3x                 | 70                 | 36.8                                | 3188                |
| 3x                 | 95                 | 41.2                                | 4309                |
| 3x                 | 120                | 45.8                                | 5635                |
| 3x                 | 150                | 50.9                                | 6921                |
| 3x                 | 185                | 56.6                                | 8079                |
| 3x                 | 240                | 63.3                                | 10639               |

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## DATASHEET

| Core number | Cross section      | Approx external production diameter | Approx cable weight |
|-------------|--------------------|-------------------------------------|---------------------|
| (N°)        | (mm <sup>2</sup> ) | (mm)                                | (kg/km)             |

### FOUR CORES

|    |     |      |      |
|----|-----|------|------|
| 4x | 1.5 | 14.1 | 298  |
| 4x | 2.5 | 15.3 | 357  |
| 4x | 4   | 16.7 | 438  |
| 4x | 6   | 18.4 | 535  |
| 4x | 10  | 20.8 | 802  |
| 4x | 16  | 23.4 | 1164 |
| 4x | 25  | 27.7 | 1664 |

### THREE CORES

|    |              |      |       |
|----|--------------|------|-------|
| 3x | 35 + 1x 25   | 30.4 | 2038  |
| 3x | 50 + 1x 25   | 33.6 | 2606  |
| 3x | 70 + 1x 35   | 38.2 | 3540  |
| 3x | 95 + 1x 50   | 43.4 | 4818  |
| 3x | 120 + 1x 70  | 48.3 | 6358  |
| 3x | 150 + 1x 95  | 53.9 | 7852  |
| 3x | 185 + 1x 95  | 58.8 | 9066  |
| 3x | 240 + 1x 150 | 66.9 | 12078 |

### FIVE CORES

|    |     |      |      |
|----|-----|------|------|
| 5x | 1.5 | 15.1 | 351  |
| 5x | 2.5 | 16.4 | 424  |
| 5x | 4   | 18.2 | 527  |
| 5x | 6   | 19.8 | 653  |
| 5x | 10  | 22.4 | 1027 |
| 5x | 16  | 25.4 | 1415 |
| 5x | 25  | 30.5 | 2022 |

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## DATASHEET

| Core number       | Cross section      | Approx external production diameter | Approx cable weight |
|-------------------|--------------------|-------------------------------------|---------------------|
| (N°)              | (mm <sup>2</sup> ) | (mm)                                | (kg/km)             |
| <b>MULTICORES</b> |                    |                                     |                     |
| 7x                | 1.5                | 15.1                                | 399                 |
| 7x                | 2.5                | 17.8                                | 496                 |
| 10x               | 1.5                | 19.7                                | 503                 |
| 10x               | 2.5                | 21.6                                | 644                 |
| 12x               | 1.5                | 20.2                                | 574                 |
| 12x               | 2.5                | 22.2                                | 732                 |
| 16x               | 1.5                | 22.0                                | 690                 |
| 16x               | 2.5                | 24.3                                | 950                 |
| 19x               | 1.5                | 23.0                                | 813                 |
| 19x               | 2.5                | 25.4                                | 1056                |
| 24x               | 1.5                | 26.4                                | 972                 |
| 24x               | 2.5                | 29.3                                | 1281                |

### NOTE

Multicores cables can be manufactured with Y/G core too.

Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Outer diameters are nominal and they can have variations of max +/- 3%. Current carrying capacities according to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1,5 k m/W.).

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Special Electrical Cables

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