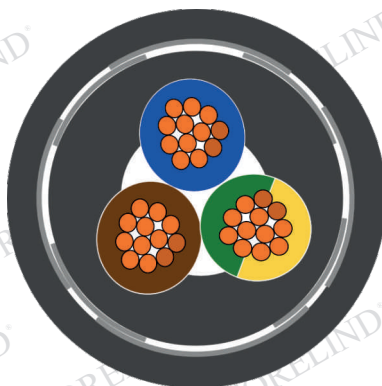


LOW VOLTAGE ARMoured CABLE



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

ARMOUR

Galvanized Steel TAPES
Galvanized Steel WIRES
Galvanized Steel STRIPS
Galvanized Steel WIRE BRAID

CHARACTERISTICS

| | |
|--|---------------------|
| Nominal voltage U ₀ | 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 ²) | (mm) | (kg/km) |
| TWO CORES | | | |
| 2x | 1.5 | 12.7 | 255 |
| 2x | 2.5 | 13.7 | 299 |
| 2x | 4 | 14.9 | 356 |
| 2x | 6 | 16.1 | 421 |
| 2x | 10 | 18.2 | 602 |
| 2x | 16 | 20.4 | 780 |
| 2x | 25 | 24.0 | 1166 |
| 2x | 35 | 26.6 | 1449 |
| 2x | 50 | 30.5 | 1898 |
| 2x | 70 | 34.3 | 2732 |
| 2x | 95 | 38.6 | 3315 |
| 2x | 120 | 43.0 | 4521 |
| 2x | 150 | 47.5 | 5778 |
| THREE CORES | | | |
| 3x | 1.5 | 13.3 | 279 |
| 3x | 2.5 | 14.3 | 334 |
| 3x | 4 | 15.6 | 404 |
| 3x | 6 | 16.9 | 487 |
| 3x | 10 | 19.2 | 711 |
| 3x | 16 | 21.5 | 987 |
| 3x | 25 | 25.4 | 1409 |
| 3x | 35 | 28.3 | 1809 |
| 3x | 50 | 32.4 | 2347 |
| 3x | 70 | 36.8 | 3366 |
| 3x | 95 | 41.2 | 4514 |
| 3x | 120 | 45.8 | 5879 |
| 3x | 150 | 50.9 | 7191 |
| 3x | 185 | 56.6 | 8367 |
| 3x | 240 | 63.3 | 10983 |
| 3x | 300 | 69.9 | 13837 |

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DATASHEET

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

FOUR CORES

| | | | |
|-----------------|-----|------|-------|
| 4x | 1.5 | 14.1 | 315 |
| 4x | 2.5 | 15.3 | 380 |
| 4x | 4 | 16.7 | 469 |
| 4x | 6 | 18.4 | 572 |
| 4x | 10 | 20.8 | 846 |
| 4x | 16 | 23.4 | 1216 |
| 4x | 25 | 27.7 | 1729 |
| 3x 35 + 1x 25 | | 30.4 | 2107 |
| 3x 50 + 1x 25 | | 33.6 | 2694 |
| 3x 70 + 1x 35 | | 38.2 | 3714 |
| 3x 95 + 1x 50 | | 43.4 | 5014 |
| 3x 120 + 1x 70 | | 48.3 | 6594 |
| 3x 150 + 1x 95 | | 53.9 | 8109 |
| 3x 185 + 1x 95 | | 58.9 | 9340 |
| 3x 240 + 1x 150 | | 66.9 | 12395 |
| 3x 300 + 1x 150 | | 69.9 | 13837 |

FIVE CORES

| | | | |
|----|-----|------|------|
| 5G | 1.5 | 15.1 | 374 |
| 5G | 2.5 | 16.4 | 455 |
| 5G | 4 | 18.2 | 565 |
| 5G | 6 | 19.8 | 691 |
| 5G | 10 | 22.4 | 1076 |
| 5G | 16 | 25.4 | 1477 |
| 5G | 25 | 30.5 | 2095 |
| 5G | 35 | 34.1 | 2836 |
| 5G | 50 | 39.5 | 4061 |

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DATASHEET

| Core number (N°) | Cross section (mm ²) | Approx external production diameter (mm) | Approx cable weight (kg/km) |
|---------------------|-------------------------------------|---|--------------------------------|
| MULTICORES | | | |
| 7x | 1.5 | 15.1 | 427 |
| 7x | 2.5 | 17.8 | 533 |
| 10x | 1.5 | 19.7 | 469 |
| 10x | 2.5 | 21.6 | 681 |
| 12x | 1.5 | 20.2 | 611 |
| 12x | 2.5 | 22.2 | 780 |
| 16x | 1.5 | 22.0 | 738 |
| 16x | 2.5 | 24.3 | 1003 |
| 19x | 1.5 | 23.0 | 863 |
| 19x | 2.5 | 25.4 | 1116 |
| 24x | 1.5 | 26.4 | 1033 |
| 24x | 2.5 | 29.3 | 1348 |

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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