

# PVC INSULATED AND SHEATHED THREE -CORE NON ARMoured COPPER MAINS CABLES 0.6/1KV

**SPECIFICATION:** IEC 60502 -1

**TYPE:** NCYY 3 - core

**IDENTIFICATION:**  
 N: Standard cable type  
 C: Copper conductor  
 Y: PVC Insulation  
 Y: PVC Sheath

**APPLICATION:** Used in installations, in cable ducts/trays and in industrial plants, substations. Can also be used underground with additional protections (where mechanical damage may be expected).

## DIMENSIONAL CHARACTERISTICS

| NOMINAL<br>CROSS<br>SECTIONAL<br>AREA<br>mm <sup>2</sup> | CONDUCTOR<br>NUMBER X<br>DIAMETER<br>OF WIRE<br>mm | RADIAL<br>THICKNESS<br>OF |                       |                       | APPROXIMATE<br>OVERALL<br>DIAMETER<br><br>mm | MAXIMUM<br>CURRENT<br>RATING<br>A |        | WEIGHT kg/<br>STANDARD<br>LENGTH<br><br>kg | STANDARD<br>DELIVERY<br>LENGTH<br><br>m | DELIVERY<br>FORM<br><br>drum |
|----------------------------------------------------------|----------------------------------------------------|---------------------------|-----------------------|-----------------------|----------------------------------------------|-----------------------------------|--------|--------------------------------------------|-----------------------------------------|------------------------------|
|                                                          |                                                    | Insulation<br>mm          | inner<br>sheath<br>mm | outer<br>sheath<br>mm |                                              | in ground                         | in air |                                            |                                         |                              |
|                                                          |                                                    |                           |                       |                       |                                              |                                   |        |                                            |                                         |                              |
| 1.5                                                      | 1/1.38                                             | 0.8                       | 0.8                   | 1.8                   | 11.7                                         | 23                                | 15     | 172                                        | 1000                                    | R10                          |
| 2.5                                                      | 1/1.78                                             | 0.9                       | 0.8                   | 1.8                   | 13.0                                         | 30                                | 21     | 222                                        | 1000                                    | R10                          |
| 4                                                        | 1/2.25                                             | 1.0                       | 0.8                   | 1.8                   | 14.5                                         | 39                                | 28     | 291                                        | 1000                                    | R10                          |
| 6                                                        | 1/2.76                                             | 1.0                       | 0.8                   | 1.8                   | 15.5                                         | 49                                | 36     | 362                                        | 1000                                    | R12                          |
| 10                                                       | 7/1.35                                             | 1.0                       | 0.8                   | 1.8                   | 18.3                                         | 65                                | 50     | 533                                        | 1000                                    | R12                          |
| 16                                                       | 7/1.70                                             | 1.0                       | 1.0                   | 1.8                   | 21.3                                         | 84                                | 56     | 775                                        | 1000                                    | R12                          |
| 25                                                       | 7/2.14                                             | 1.2                       | 1.0                   | 1.8                   | 25.4                                         | 109                               | 88     | 1147                                       | 1000                                    | R14                          |
| 35                                                       | 7/2.50                                             | 1.2                       | 1.0                   | 2.0                   | 28.0                                         | 130                               | 109    | 1477                                       | 1000                                    | R16                          |
| 50                                                       | 19/1.78                                            | 1.4                       | 1.2                   | 2.0                   | 32.2                                         | 155                               | 131    | 977                                        | 500                                     | R16                          |
| 70                                                       | 19/2.14                                            | 1.4                       | 1.2                   | 2.0                   | 36.5                                         | 193                               | 167    | 1332                                       | 500                                     | R16                          |
| 95                                                       | 19/2.52                                            | 1.6                       | 1.4                   | 2.2                   | 41.4                                         | 231                               | 202    | 1776                                       | 500                                     | R20                          |
| 120                                                      | 37/2.03                                            | 1.6                       | 1.4                   | 2.2                   | 46.3                                         | 265                               | 234    | 2235                                       | 500                                     | R20                          |
| 150                                                      | 37/2.25                                            | 1.8                       | 1.4                   | 2.6                   | 50.6                                         | 298                               | 269    | 2695                                       | 500                                     | R20                          |

Solid copper conductor up to 6mm<sup>2</sup>

Stranded sectoral conductor for sizes of 50mm<sup>2</sup> and above