

# NYA 1.5 - 400 mm<sup>2</sup> 450/750 V

## Cu / PVC

(Copper Conductor, PVC Insulated)  
Standard Specification : IEC 60227-1

### Construction Data

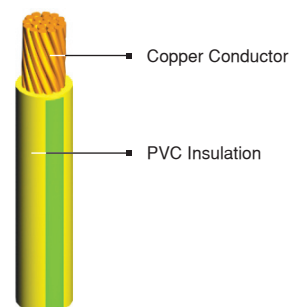
| Nom. Cross Section Area | Overall Diameter | Cable Weight |
|-------------------------|------------------|--------------|
|                         | approx.          | approx.      |
| mm <sup>2</sup>         | mm               | kg/km        |
| 1.5                     | 3.1              | 22           |
| 2.5                     | 3.7              | 34           |
| 4                       | 4.3              | 50           |
| 6                       | 4.8              | 70           |
| 10                      | 6.2              | 117          |
| 16                      | 7.2              | 173          |
| 25                      | 9.0              | 277          |
| 35                      | 10.1             | 369          |
| 50                      | 12.1             | 513          |
| 70                      | 13.8             | 709          |
| 95                      | 16.0             | 958          |
| 120                     | 17.6             | 1,183        |
| 150                     | 19.5             | 1,448        |
| 185                     | 22.0             | 1,835        |
| 240                     | 25.5             | 2,413        |
| 300                     | 28.0             | 2,958        |
| 400                     | 31.5             | 3,782        |

#### Application :

For building wire installed in conduit in dry location and interwiring in switch board and control panel.

#### Special Features on Request :

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Nylon Coated



#### Note :

##### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 - 400 sqmm supplied in non compacted circular stranded (rm) conductor shape

##### Standard Packing

1.5 - 16 sqmm supplied in coil @ 100 m

25 - 400 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum ± 2%

### Electrical Data

| Nom. Cross Sect.   | Conductor             |                       | Insulation                    | Inductance | Current - Carrying Capacity at 30°C * |          | Short circuit current at 1 sec |
|--------------------|-----------------------|-----------------------|-------------------------------|------------|---------------------------------------|----------|--------------------------------|
|                    | DC Resistance at 20°C | AC Resistance at 70°C | Insulation Resistance at 70°C |            | in pipe                               |          |                                |
|                    |                       |                       |                               |            | Max. (A)                              | Max. (A) |                                |
| (mm <sup>2</sup> ) | Max. (Ω/km)           | Max. (Ω/km)           | Min. (M.Ω.km)                 | (mH/km)    | (A)                                   | (A)      | Max. (kA)                      |
| 1.5                | 12.1                  | 14.478                | 0.0100                        | 0.320      | 15                                    | 24       | 0.17                           |
| 2.5                | 7.41                  | 8.866                 | 0.0090                        | 0.309      | 19                                    | 32       | 0.29                           |
| 4                  | 4.61                  | 5.516                 | 0.0077                        | 0.290      | 25                                    | 42       | 0.46                           |
| 6                  | 3.08                  | 3.685                 | 0.0065                        | 0.276      | 33                                    | 54       | 0.69                           |
| 10                 | 1.83                  | 2.190                 | 0.0065                        | 0.274      | 45                                    | 73       | 1.15                           |
| 16                 | 1.15                  | 1.376                 | 0.0050                        | 0.260      | 61                                    | 98       | 1.84                           |
| 25                 | 0.727                 | 0.870                 | 0.0050                        | 0.257      | 83                                    | 129      | 2.88                           |
| 35                 | 0.524                 | 0.627                 | 0.0040                        | 0.249      | 103                                   | 158      | 4.03                           |
| 50                 | 0.387                 | 0.464                 | 0.0045                        | 0.248      | 132                                   | 197      | 5.75                           |
| 70                 | 0.268                 | 0.321                 | 0.0035                        | 0.240      | 165                                   | 245      | 8.05                           |
| 95                 | 0.193                 | 0.232                 | 0.0035                        | 0.239      | 207                                   | 290      | 10.93                          |
| 120                | 0.153                 | 0.184                 | 0.0032                        | 0.235      | 235                                   | 345      | 13.80                          |
| 150                | 0.124                 | 0.150                 | 0.0032                        | 0.235      | -                                     | 390      | 17.25                          |
| 185                | 0.0991                | 0.121                 | 0.0032                        | 0.235      | -                                     | 445      | 21.28                          |
| 240                | 0.0754                | 0.093                 | 0.0032                        | 0.233      | -                                     | 525      | 27.60                          |
| 300                | 0.0601                | 0.075                 | 0.0030                        | 0.232      | -                                     | 605      | 34.50                          |
| 400                | 0.0470                | 0.060                 | 0.0028                        | 0.231      | -                                     | 725      | 41.20                          |

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information