



### Construction:

- Conductor : tinned copper.
- Conductor construction : fine stranded, class 5.
- Insulation : rubber (EPR) 3GI3, halogen-free.
- Sheating material : FRNC compound HM3.
- Colour of outer sheath : black.

\*FRNC - Flame Retardant, Non Corrosive.

### Technical data and tests:

- Rated voltage Uo/U : 1.8/3 kV.
- Test Voltage : 6 kV.
- Max. temperature at conductor : 90° C.
- Max. operating temperature, fixed : -40° - +70° C.
- Temp. moved/during installation : -25° - +70° C.
- Halogen free : yes.
- Oil, lye and grease resistant : yes.
- Flame retardant : yes.

### Standards:

- Cable : VDE 0250 T.606.
- Flame retardant : VDE 0482-332-1-2/IEC 60332-1.
- Smoke density : DIN EN 61034/IEC 60332-1.
- Halogen free : DIN EN 50267/IEC 60754.

### Applications:

This insulated wire is designed for application in buses and railborn vehicles. If used in distribution or switching appliances up to 1000 V, it is considered to be short circuit proof. The cable is halogen-free, flame retardant and resistant against most oils and greases.

## DIMENSIONS

| No. of conductors x cross section | RI<br>Ω/km | Ibl<br>A | Rbb<br>mm | Rbf<br>mm | Da<br>mm | Fz<br>N | Cu<br>kg/km | G<br>kg/km |
|-----------------------------------|------------|----------|-----------|-----------|----------|---------|-------------|------------|
| 1X1,5                             | 13.3       | 30       | 35        | 28        | 7        | 21      | 14.4        | 60         |
| 1X2,5                             | 7.98       | 41       | 37.5      | 30        | 7.5      | 41      | 24          | 70         |
| 1X4                               | 4.95       | 55       | 45        | 36        | 9        | 60      | 38.4        | 85         |
| 1X6                               | 3.3        | 70       | 47.5      | 38        | 9.5      | 90      | 57.6        | 110        |
| 1X10                              | 1.91       | 98       | 55        | 44        | 11       | 150     | 96          | 160        |
| 1X16                              | 1.21       | 132      | 65        | 52        | 13       | 240     | 153.6       | 240        |
| 1X25                              | 0.795      | 176      | 75        | 60        | 15       | 375     | 240         | 365        |
| 1X35                              | 0.554      | 219      | 82.5      | 66        | 16.5     | 525     | 336         | 494        |
| 1X50                              | 0.386      | 276      | 90        | 72        | 18       | 750     | 480         | 656        |
| 1X70                              | 0.272      | 347      | 102.5     | 82        | 20.5     | 1050    | 672         | 880        |
| 1X95                              | 0.206      | 416      | 120       | 96        | 24       | 1425    | 912         | 1090       |
| 1X120                             | 0.161      | 488      | 130       | 104       | 25.1     | 1800    | 1152        | 1340       |
| 1X150                             | 0.129      | 566      | 140       | 112       | 28       | 2250    | 1440        | 1640       |
| 1X185                             | 0.106      | 644      | 155       | 124       | 31       | 2775    | 1776        | 2160       |
| 1X240                             | 0.0801     | 775      | 172.5     | 138       | 34.5     | 3600    | 2304        | 2570       |
| 1X300                             | 0.0641     | 898      | 190       | 152       | 38       | 4500    | 2890        | 3470       |
| 1X500                             | 0.0384     | 1250     | 210.5     | 168       | 42.1     | 7500    | 4800        | 5860       |

|     |                                        |
|-----|----------------------------------------|
| Rbf | bending radius, fixed installation     |
| DA  | outer diameter                         |
| Fzv | tensile strength (during installation) |
| Cu  | copper                                 |
| G   | weight                                 |

|     |                                   |
|-----|-----------------------------------|
| RI  | conductor resistance              |
| Ibl | ampacity (in air)                 |
| Rbb | bending radius, moved application |

