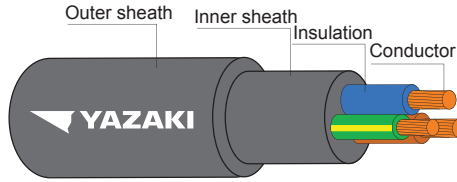
# NYY-G

## 450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND




TIS 11 Part 101-2559

## CABLE STRUCTURE

**Conductor** : Solid and stranded annealed copper wire

**Insulation** : Polyvinyl chloride (PVC/C)

**Insulation color** : Blue, Brown + Green/Yellow

**Inner sheath** : Black polyvinyl chloride (PVC)

**Outer sheath** : Black polyvinyl Chloride (PVC/ST4)

## TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

**Rated voltage** : 450 Volts between Line to Earth
: 750 Volts between Line to Line

**AC Testing voltage** : 2,500 volts

**Reference standard** : TIS 11 Part 101-2559 Table 5

## APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

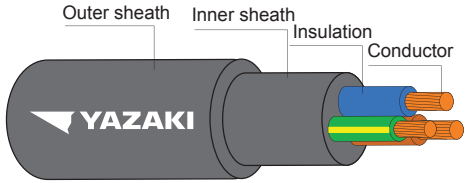
B

| Number of coress | Conductor | | | | Insulation thickness nominal | Inner sheath thickness approx. | Outer Sheath thick-ness nominal | Overall diameter maxi-mum | Conductor resistance at 20°C maximum | | Insulation resistance at 70°C minimum | Continuous currunt rating maxium | | Cable weight approx. | Stan-dard Length per drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nominal cross section area | | Type of Conductor | | | | | | Phase | Ground | | on cable Ladder at 40°C | direct burial in ground at 30°C | | |
| | Phase | Ground | Phase | Ground | | | | | | | | | | | |
| | ($mm^2$) | ($mm^2$) | | | (mm) | (mm) | (mm) | (mm) | (Ω/km) | (Ω/km) | (MΩ-km) | (A) | (A) | (kg/km) | (m) |
| | 1 | 1 | Solid | | 0.8 | 0.8 | 1.8 | 13.0 | 18.1 | 18.1 | 0.0141 | 15 | 21 | 180 | 500 |
| | 1 | 1 | Stranded | | 0.8 | 0.8 | 1.8 | 13.5 | 18.1 | 18.1 | 0.0135 | 15 | 21 | 190 | 500 |
| | 1.5 | 1.5 | Solid | | 0.8 | 0.8 | 1.8 | 13.5 | 12.1 | 12.1 | 0.0123 | 19 | 27 | 210 | 500 |
| | 1.5 | 1.5 | Stranded | | 0.8 | 0.8 | 1.8 | 14.0 | 12.1 | 12.1 | 0.0116 | 19 | 27 | 220 | 500 |
| | 2.5 | 2.5 | Solid | | 0.8 | 0.8 | 1.8 | 14.5 | 7.41 | 7.41 | 0.0102 | 26 | 35 | 260 | 500 |
| | 2.5 | 2.5 | Stranded | | 0.8 | 0.8 | 1.8 | 15.0 | 7.41 | 7.41 | 0.0093 | 26 | 35 | 270 | 500 |
| | 4 | 4 | Solid | | 0.9 | 0.8 | 1.8 | 16.0 | 4.61 | 4.61 | 0.0094 | 35 | 47 | 340 | 500 |
| | 4 | 4 | Stranded | | 0.9 | 0.8 | 1.8 | 16.5 | 4.61 | 4.61 | 0.0085 | 35 | 47 | 360 | 500 |
| | 6 | 6 | Stranded | | 0.9 | 0.8 | 1.8 | 18.0 | 3.08 | 3.08 | 0.0073 | 44 | 60 | 450 | 500 |
| | 10 | 10 | Stranded | | 1.1 | 0.8 | 1.8 | 21.0 | 1.83 | 1.83 | 0.0069 | 61 | 81 | 650 | 500 |
| 2+G | 16 | 16 | Stranded | | 1.1 | 0.8 | 2.0 | 23.5 | 1.15 | 1.15 | 0.0057 | 82 | 105 | 900 | 500 |
| | 25 | 16 | Stranded | | 1.3 | 1.2 | 2.0 | 28.0 | 0.727 | 1.15 | 0.0054 | 104 | 136 | 1200 | 500 |
| | 35 | 16 | Stranded | | 1.3 | 1.2 | 2.0 | 30.0 | 0.524 | 1.15 | 0.0047 | 129 | 165 | 1500 | 500 |
| | 50 | 25 | Stranded | | 1.5 | 1.2 | 2.2 | 34.0 | 0.387 | 0.727 | 0.0046 | 157 | 195 | 2000 | 500 |
| | 70 | 35 | Stranded | | 1.5 | 1.5 | 2.2 | 38.5 | 0.268 | 0.524 | 0.0039 | 202 | 239 | 2700 | 500 |
| | 95 | 50 | Stranded | | 1.7 | 15 | 2.2 | 43.5 | 0.193 | 0.387 | 0.0038 | 245 | 288 | 3600 | 500 |
| | 120 | 70 | Stranded | | 1.7 | 1.5 | 2.4 | 47.5 | 0.153 | 0.268 | 0.0034 | 285 | 329 | 4500 | 500 |
| | 150 | 95 | Stranded | | 1.9 | 1.8 | 2.6 | 53.0 | 0.124 | 0.193 | 0.0034 | 330 | 368 | 5500 | 500 |
| | 185 | 95 | Stranded | | 2.1 | 1.8 | 2.8 | 57.5 | 0.0991 | 0.193 | 0.0034 | 378 | 417 | 6500 | 500 |
| | 240 | 120 | Stranded | | 2.3 | 2.0 | 3.0 | 64.5 | 0.0754 | 0.153 | 0.0033 | 447 | 481 | 8500 | 500 |
| | 300 | 150 | Stranded | | 2.5 | 2.0 | 3.2 | 71.0 | 0.0601 | 0.124 | 0.0032 | 516 | 541 | 10500 | 300 |

**Remark** : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

# NYY-G

## 450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND




TIS 11 Part 101-2559

## CABLE STRUCTURE

**Conductor** : Solid and staranded annealed copper

**Insulation** : Polyvinyl chloride (PVC/C)

**Insulation color** : Blue, Brown + Green/Yellow

**Inner sheath** : Black polyvinyl chloride (PVC)

**Outer sheath** : Black polyvinyl Chloride (PVC/ST4)

## TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

**Rated voltage** : 450 Volts between Line to Earth
: 750 Volts between Line to Line

**AC Testing voltage** : 2,500 volts

**Reference standard** : TIS 11 Part 101-2559 Table 5

## APPLICATION

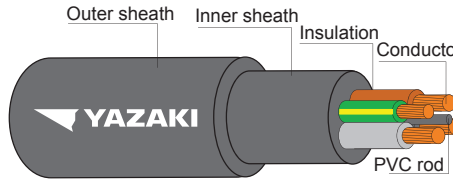
For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

| Number of coress | Nominal cross section area | | A.C. Resistance | Inductance | Reactance | Impedance |
|---|---|---|---|---|---|---|
| | Phase ($mm^2$) | Ground ($mm^2$) | R (Ω/km) | L (mH/km) | XL (Ω/km) | Z (Ω/km) |
| 2+G | 1 | 1 | 21.7000 | 0.3771 | 0.1185 | 21.7000 |
| | 1 | 1 | 21.7000 | 0.3651 | 0.1147 | 21.7000 |
| | 1.5 | 1.5 | 14.5000 | 0.3505 | 0.1101 | 14.5000 |
| | 1.5 | 1.5 | 14.5000 | 0.3402 | 0.1069 | 14.5000 |
| | 2.5 | 2.5 | 8.8700 | 0.3238 | 0.1017 | 8.8710 |
| | 2.5 | 2.5 | 8.8700 | 0.3160 | 0.0993 | 8.8710 |
| | 4 | 4 | 5.5200 | 0.3135 | 0.0985 | 5.5210 |
| | 4 | 4 | 5.5200 | 0.3022 | 0.0950 | 5.5210 |
| | 6 | 6 | 3.6900 | 0.2869 | 0.0901 | 3.6910 |
| | 10 | 10 | 2.1900 | 0.2801 | 0.0880 | 2.1920 |
| | 16 | 16 | 1.3800 | 0.2791 | 0.0877 | 1.3828 |
| | 25 | 16 | 0.8700 | 0.2631 | 0.0827 | 0.8739 |
| | 35 | 16 | 0.6272 | 0.2593 | 0.0814 | 0.6325 |
| | 50 | 25 | 0.4634 | 0.2604 | 0.0818 | 0.4706 |
| | 70 | 35 | 0.3212 | 0.2506 | 0.0787 | 0.3307 |
| | 95 | 50 | 0.2317 | 0.2480 | 0.0779 | 0.2444 |
| | 120 | 70 | 0.1840 | 0.2409 | 0.0757 | 0.1990 |
| | 150 | 95 | 0.1495 | 0.2402 | 0.0755 | 0.1675 |
| | 185 | 95 | 0.1201 | 0.2401 | 0.0754 | 0.1418 |
| | 240 | 120 | 0.0922 | 0.2361 | 0.0742 | 0.1183 |
| | 300 | 150 | 0.0744 | 0.2343 | 0.0736 | 0.1047 |

# NYY-G

## 450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND

TIS 11 Part 101-2559




## CABLE STRUCTURE

**Conductor** : Solid and stranded annealed copper wire

**Insulation** : Polyvinyl chloride (PVC/C)

**Insulation color** : Brown, Black, Grey + Green/Yellow

**Inner sheath** : Black polyvinyl chloride (PVC)

**Outer sheath** : Black polyvinyl Chloride (PVC/ST4)

## TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

**Rated voltage** : 450 Volts between Line to Earth
: 750 Volts between Line to Line

**AC Testing voltage** : 2,500 volts

**Reference standard** : TIS 11 Part 101-2559 Table 5

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## APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

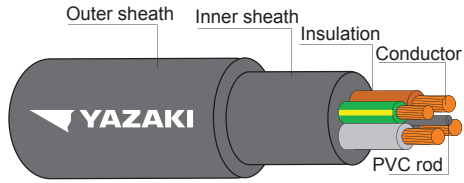
| Number of coress | Conductor | | | | Insulation thickness nominal | Inner sheath thickness approx. | Outer Sheath thick-ness nominal | Overall diameter maxi-mum | Conductor resistance at 20°C maximum | | Insulation resistance at 70°C minimum | Continuous currunt rating maxium | | Cable weight approx. | Standard Length per drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nominal cross section area | | Type of Conductor | | | | | | Phase | Ground | | on cable Ladder at 40°C | direct burial at 30°C | | |
| | Phase ($mm^2$) | Ground ($mm^2$) | Phase | Ground | (mm) | (mm) | (mm) | (mm) | (Ω/km) | (Ω/km) | (MΩ-km) | (A) | (A) | (kg/km) | (m) |
| 3+G | 1 | 1 | Solid | | 0.8 | 0.8 | 1.8 | 13.5 | 18.1 | 18.1 | 0.0141 | 13 | 18 | 210 | 500 |
| | 1 | 1 | Stranded | | 0.8 | 0.8 | 1.8 | 14.0 | 18.1 | 18.1 | 0.0135 | 13 | 18 | 220 | 500 |
| | 1.5 | 1.5 | Solid | | 0.8 | 0.8 | 1.8 | 14.0 | 12.1 | 12.1 | 0.0123 | 16 | 22 | 240 | 500 |
| | 1.5 | 1.5 | Stranded | | 0.8 | 0.8 | 1.8 | 15.0 | 12.1 | 12.1 | 0.0116 | 16 | 22 | 260 | 500 |
| | 2.5 | 2.5 | Solid | | 0.8 | 0.8 | 1.8 | 15.5 | 7.41 | 7.41 | 0.0102 | 22 | 30 | 300 | 500 |
| | 2.5 | 2.5 | Stranded | | 0.8 | 0.8 | 1.8 | 16.0 | 7.41 | 7.41 | 0.0093 | 22 | 30 | 320 | 500 |
| | 4 | 4 | Solid | | 0.9 | 0.8 | 1.8 | 17.0 | 4.61 | 4.61 | 0.0094 | 30 | 39 | 400 | 500 |
| | 4 | 4 | Stranded | | 0.9 | 0.8 | 1.8 | 18.0 | 4.61 | 4.61 | 0.0085 | 30 | 39 | 430 | 500 |
| | 6 | 6 | Stranded | | 0.9 | 0.8 | 1.8 | 19.0 | 3.08 | 3.08 | 0.0073 | 37 | 50 | 550 | 500 |
| | 10 | 10 | Stranded | | 1.1 | 0.8 | 1.8 | 22.5 | 1.83 | 1.83 | 0.0069 | 52 | 68 | 800 | 500 |
| | 16 | 16 | Stranded | | 1.1 | 1.2 | 2.0 | 26.5 | 1.15 | 1.15 | 0.0057 | 70 | 87 | 1200 | 500 |
| | 25 | 16 | Stranded | | 1.3 | 1.2 | 2.0 | 30.5 | 0.727 | 1.15 | 0.0054 | 88 | 128 | 1600 | 500 |
| | 35 | 16 | Stranded | | 1.3 | 1.2 | 2.0 | 33.0 | 0.524 | 1.15 | 0.0047 | 110 | 154 | 1900 | 500 |
| | 50 | 25 | Stranded | | 1.5 | 1.5 | 2.2 | 38.5 | 0.387 | 0.727 | 0.0046 | 133 | 181 | 2600 | 500 |
| | 70 | 35 | Stranded | | 1.5 | 1.5 | 2.2 | 42.5 | 0.268 | 0.524 | 0.0039 | 171 | 223 | 3500 | 500 |
| | 95 | 50 | Stranded | | 1.7 | 1.5 | 2.4 | 48.5 | 0.193 | 0.387 | 0.0038 | 207 | 267 | 4700 | 500 |
| | 120 | 70 | Stranded | | 1.7 | 1.8 | 2.6 | 53.5 | 0.153 | 0.268 | 0.0034 | 240 | 304 | 6000 | 500 |
| | 150 | 95 | Stranded | | 1.9 | 1.8 | 2.8 | 59.0 | 0.124 | 0.193 | 0.0034 | 278 | 342 | 7500 | 500 |
| | 185 | 95 | Stranded | | 2.1 | 2.0 | 3.0 | 64.5 | 0.0991 | 0.193 | 0.0034 | 317 | 386 | 9000 | 500 |
| | 240 | 120 | Stranded | | 2.3 | 2.0 | 3.2 | 72.0 | 0.0754 | 0.153 | 0.0033 | 374 | 448 | 11500 | 300 |
| | 300 | 150 | Stranded | | 2.5 | 2.2 | 3.4 | 79.5 | 0.0601 | 0.124 | 0.0032 | 432 | 507 | 14000 | 300 |

**Remark** : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

# NYY-G

## 450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED WITH GROUND

TIS 11 Part 101-2559




## CABLE STRUCTURE

**Conductor** : Solid and staranded annealed copper wire

**Insulation** : Polyvinyl chloride (PVC/C)

**Insulation color** : Brown, Black, Grey + Green/Yellow

**Inner sheath** : Black polyvinyl chloride (PVC)

**Outer Sheath** : Black polyvinyl Chloride (PVC/ST4)

## TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

**Rated voltage** : 450 Volts between Line to Earth
: 750 Volts between Line to Line

**AC Testing voltage** : 2,500 volts

**Reference standard** : TIS 11 Part 101-2559 Table 5

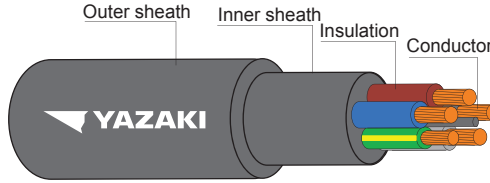
## APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

| Number of coress | Nominal cross section area | | A.C. Resistance | Inductance | Reactance | Impedance |
|---|---|---|---|---|---|---|
| | Phase ($mm^2$) | Ground ($mm^2$) | R (Ω/km) | L (mH/km) | XL (Ω/km) | Z (Ω/km) |
| 3+G | 1 | 1 | 21.7000 | 0.3771 | 0.1185 | 21.7000 |
| | 1 | 1 | 21.7000 | 0.3651 | 0.1147 | 21.7000 |
| | 1.5 | 1.5 | 14.5000 | 0.3505 | 0.1101 | 14.5000 |
| | 1.5 | 1.5 | 14.5000 | 0.3402 | 0.1069 | 14.5000 |
| | 2.5 | 2.5 | 8.8700 | 0.3238 | 0.1017 | 8.8710 |
| | 2.5 | 2.5 | 8.8700 | 0.3160 | 0.0993 | 8.8710 |
| | 4 | 4 | 5.5200 | 0.3135 | 0.0985 | 5.5210 |
| | 4 | 4 | 5.5200 | 0.3022 | 0.0950 | 5.5210 |
| | 6 | 6 | 3.6900 | 0.2869 | 0.0901 | 3.6910 |
| | 10 | 10 | 2.1900 | 0.2801 | 0.0880 | 2.1920 |
| | 16 | 16 | 1.3800 | 0.2791 | 0.0877 | 1.3828 |
| | 25 | 16 | 0.8700 | 0.2631 | 0.0827 | 0.8739 |
| | 35 | 16 | 0.6273 | 0.2593 | 0.0814 | 0.6326 |
| | 50 | 25 | 0.4635 | 0.2604 | 0.0818 | 0.4707 |
| | 70 | 35 | 0.3213 | 0.2506 | 0.0787 | 0.3308 |
| | 95 | 50 | 0.2319 | 0.2480 | 0.0779 | 0.2446 |
| | 120 | 70 | 0.1843 | 0.2409 | 0.0757 | 0.1992 |
| | 150 | 95 | 0.1499 | 0.2402 | 0.0755 | 0.1678 |
| | 185 | 95 | 0.1205 | 0.2401 | 0.0754 | 0.1422 |
| | 240 | 120 | 0.0928 | 0.2361 | 0.0742 | 0.1188 |
| | 300 | 150 | 0.0751 | 0.2343 | 0.0736 | 0.1052 |

# NYY-G

## 450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND




TIS 11 Part 101-2559

## CABLE STRUCTURE

**Conductor** : Solid and stranded annealed copper wire

**Insulation** : Polyvinyl chloride (PVC/C)

**Insulation color** : Blue, Brown, Black, Grey + Green/Yellow

**Inner sheath** : Black polyvinyl chloride (PVC)

**Outer sheath** : Black polyvinyl choride (PVC/ST4)

## TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

**Rated voltage** : 450 Volts between Line to Earth
: 750 Volts between Line to Line

**AC Testing voltage** : 2,500 volts

**Reference standard** : TIS 11 Part 101-2559 Table 5

## APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

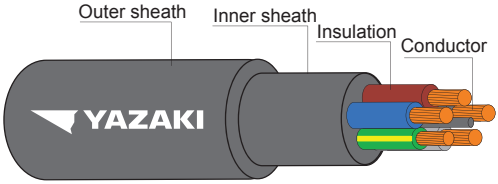
B

| Number of coress | Conductor | | | | Insulation thickness nominal | Inner sheath thickness approx. | Outer Sheath thick-ness nominal | Overall diameter maxi-mum | Conductor resistance at 20°C maximum | | Insulation resis-tance at 70°C minimum | Continuous currunt rating maxium | | Cable weight approx. | Standard length per drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nominal cross section area | | Type of Conductor | | | | | | Phase | Ground | | on cable Ladder at 40°C | direct burial at 30°C | | |
| | Phase ($mm^2$) | Ground ($mm^2$) | Phase | Ground | (mm) | (mm) | (mm) | (mm) | (Ω/km) | (Ω/km) | | (A) | (A) | (kg/km) | (m) |
| | 1 | 1 | Solid | | 0.8 | 0.8 | 1.8 | 14.5 | 18.1 | 18.1 | 0.0141 | 13 | 18 | 250 | 500 |
| | 1 | 1 | Stranded | | 0.8 | 0.8 | 1.8 | 15.0 | 18.1 | 18.1 | 0.0135 | 13 | 18 | 260 | 500 |
| | 1.5 | 1.5 | Solid | | 0.8 | 0.8 | 1.8 | 15.0 | 12.1 | 12.1 | 0.0123 | 16 | 22 | 280 | 500 |
| | 1.5 | 1.5 | Stranded | | 0.8 | 0.8 | 1.8 | 16.0 | 12.1 | 12.1 | 0.0116 | 16 | 22 | 300 | 500 |
| | 2.5 | 2.5 | Solid | | 0.8 | 0.8 | 1.8 | 16.5 | 7.41 | 7.41 | 0.0102 | 22 | 30 | 360 | 500 |
| | 2.5 | 2.5 | Stranded | | 0.8 | 0.8 | 1.8 | 17.0 | 7.41 | 7.41 | 0.0093 | 22 | 30 | 390 | 500 |
| | 4 | 4 | Solid | | 0.9 | 0.8 | 1.8 | 18.0 | 4.61 | 4.61 | 0.0094 | 30 | 39 | 480 | 500 |
| | 4 | 4 | Stranded | | 0.9 | 0.8 | 1.8 | 19.0 | 4.61 | 4.61 | 0.0085 | 30 | 39 | 500 | 500 |
| | 6 | 6 | Stranded | | 0.9 | 0.8 | 1.8 | 20.5 | 3.08 | 3.08 | 0.0073 | 37 | 50 | 650 | 500 |
| | 10 | 10 | Stranded | | 1.1 | 0.8 | 2.0 | 25.0 | 1.83 | 1.83 | 0.0069 | 52 | 68 | 1000 | 500 |
| 4+G | 16 | 16 | Stranded | | 1.1 | 1.2 | 2.0 | 28.5 | 1.15 | 1.15 | 0.0057 | 70 | 87 | 1400 | 500 |
| | 25 | 16 | Stranded | | 1.3 | 1.2 | 2.0 | 34.0 | 0.727 | 1.15 | 0.0054 | 88 | 128 | 1900 | 500 |
| | 35 | 16 | Stranded | | 1.3 | 1.5 | 2.2 | 39.0 | 0.524 | 1.15 | 0.0047 | 110 | 154 | 2500 | 500 |
| | 50 | 25 | Stranded | | 1.5 | 1.5 | 2.2 | 43.5 | 0.387 | 0.727 | 0.0046 | 133 | 181 | 3300 | 500 |
| | 70 | 35 | Stranded | | 1.5 | 1.5 | 2.4 | 49.0 | 0.268 | 0.524 | 0.0039 | 171 | 223 | 4500 | 500 |
| | 95 | 50 | Stranded | | 1.7 | 1.8 | 2.6 | 56.5 | 0.193 | 0.387 | 0.0038 | 207 | 267 | 6000 | 500 |
| | 120 | 70 | Stranded | | 1.7 | 1.8 | 2.8 | 61.5 | 0.153 | 0.268 | 0.0034 | 240 | 304 | 7500 | 500 |
| | 150 | 95 | Stranded | | 1.9 | 2.0 | 3.0 | 68.0 | 0.124 | 0.193 | 0.0034 | 278 | 342 | 9500 | 300 |
| | 185 | 95 | Stranded | | 2.1 | 2.0 | 3.2 | 75.0 | 0.0991 | 0.193 | 0.0034 | 317 | 386 | 11500 | 300 |
| | 240 | 120 | Stranded | | 2.3 | 2.2 | 3.4 | 84.5 | 0.0754 | 0.153 | 0.0033 | 374 | 448 | 14500 | 300 |
| | 300 | 150 | Stranded | | 2.5 | 2.2 | 3.8 | 93.5 | 0.0601 | 0.124 | 0.0032 | 432 | 507 | 18000 | 200 |

**Remark** : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

# NYY-G

## 450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND




TIS 11 Part 101-2559

## CABLE STRUCTURE

**Conductor** : Solid and staranded annealed copper wire

**Insulation** : Polyvinyl chloride (PVC/C)

**Insulation color** : Blue, Brown, Black, Grey + Green/Yellow

**Inner sheath** : Black polyvinyl chloride (PVC)

**Outer sheath** : Black polyvinyl chloride (PVC/ST4)

## TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

**Rated voltage** : 450 Volts between Line to Earth
: 750 Volts between Line to Line

**AC Testing voltage** : 2,500 volts

**Reference standard** : TIS 11 Part 101-2559 Table 5

## APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

| Cable name | Nominal cross section area (No.x mm2) | Conductor Type | A.C. Resistance R (Ω/km) | Inductance L (mH/km) | Reactance XL (Ω/km) | Impedance Z (Ω/km) |
|---|---|---|---|---|---|---|
| | 1 | 1 | 21.7000 | 0.3771 | 0.1185 | 21.7000 |
| | 1 | 1 | 21.7000 | 0.3651 | 0.1147 | 21.7000 |
| | 1.5 | 1.5 | 14.5000 | 0.3505 | 0.1101 | 14.5000 |
| | 1.5 | 1.5 | 14.5000 | 0.3402 | 0.1069 | 14.5000 |
| | 2.5 | 2.5 | 8.8700 | 0.3238 | 0.1017 | 8.8710 |
| | 2.5 | 2.5 | 8.8700 | 0.3160 | 0.0993 | 8.8710 |
| | 4 | 4 | 5.5200 | 0.3135 | 0.0985 | 5.5210 |
| | 4 | 4 | 5.5200 | 0.3022 | 0.0950 | 5.5210 |
| | 6 | 6 | 3.6900 | 0.2869 | 0.0901 | 3.6910 |
| | 10 | 10 | 2.1900 | 0.2801 | 0.0880 | 2.1920 |
| 4+G | 16 | 16 | 1.3800 | 0.2791 | 0.0877 | 1.3828 |
| | 25 | 16 | 0.8700 | 0.2631 | 0.0827 | 0.8739 |
| | 35 | 16 | 0.6273 | 0.2593 | 0.0814 | 0.6326 |
| | 50 | 25 | 0.4635 | 0.2604 | 0.0818 | 0.4707 |
| | 70 | 35 | 0.3213 | 0.2506 | 0.0787 | 0.3308 |
| | 95 | 50 | 0.2319 | 0.2480 | 0.0779 | 0.2446 |
| | 120 | 70 | 0.1843 | 0.2409 | 0.0757 | 0.1992 |
| | 150 | 95 | 0.1499 | 0.2402 | 0.0755 | 0.1678 |
| | 185 | 95 | 0.1205 | 0.2401 | 0.0754 | 0.1422 |
| | 240 | 120 | 0.0928 | 0.2361 | 0.0742 | 0.1188 |
| | 300 | 150 | 0.0751 | 0.2343 | 0.0736 | 0.1052 |