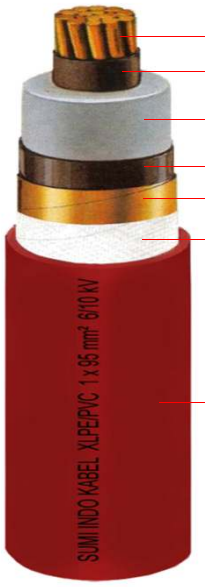
# SUMI INDO KABEL

## (3.6/6 kV ~ 18/30 kV) Cu/XLPE/CTS/PVC (N2XSY) - 1 CORE
### SNI IEC 60502-2 / IEC 60502-2




**Copper conductor**
**Conductor screen**
**XLPE insulation**
**Insulation screen**
**Copper tape screen**
**Binding tape (manufacturer's option)**
**PVC sheath (Red or Black color)**

**Special application upon request :**
* Available product in accordance to SPLN, JIS, BS, ICEA/NEMA, AS standard or other requirement.
* Flame retardant test acc. to IEC 60332-3 Cat. A, B or C.
* Longitudinally Water Blocking characteristic.
* Anti termite and anti rodent performance.
* Tin coated Copper conductor.
* Copper wire screen.
* Polyethylene/Low Smoke Free Halogen sheath.

### 3.6/6 (7.2) kV Cu/XLPE/CTS/PVC ( N2XSY ) 1 x ( 25 - 800 ) mm²

**CONSTRUCTION DATA**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Core | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nom. Cross-section Area | mm² | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 | 800 |
| No. of Wire | - | 7 | 7 | 19 | 19 | 19 | 37 | 37 | 37 | 37 | 61 | 61 | 61 | 91 | 91 |
| Diameter of Conductor (approx.) [2] | mm | 5.9 | 7.1 | 8.1 | 9.7 | 11.6 | 12.9 | 14.3 | 16.0 | 18.3 | 20.7 | 23.4 | 26.5 | 30.3 | 34.3 |
| Nom. Thickness of Insulation | mm | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.6 | 2.8 | 3.0 | 3.2 | 3.2 | 3.2 |
| Nom. Thickness of Copper Tape | mm | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 |
| Nom. Thickness of Outer Sheath | mm | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.5 |
| Overall Diameter of Cable | mm | 17.5 | 18.5 | 19.5 | 21.0 | 23.0 | 24.5 | 26.0 | 27.5 | 30.0 | 33.0 | 36.5 | 40.0 | 44.0 | 49.0 |
| Weight of Cable (approx.) | kg/km | 500 | 610 | 740 | 955 | 1230 | 1475 | 1755 | 2105 | 2670 | 3295 | 4130 | 5210 | 6600 | 8380 |

**ELECTRICAL DATA**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC Voltage Test for 5 min. | kV | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| Partial Discharge Test at max. 10pC | kV | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 |
| DC Resistance at 20°C | Ω/km | 0.727 | 0.524 | 0.387 | 0.268 | 0.193 | 0.153 | 0.124 | 0.0991 | 0.0754 | 0.0601 | 0.0470 | 0.0366 | 0.0283 | 0.0221 |
| AC Resistance at 90°C | Ω/km | 0.927 | 0.668 | 0.494 | 0.342 | 0.247 | 0.196 | 0.159 | 0.128 | 0.0979 | 0.0789 | 0.0628 | 0.0504 | 0.0409 | 0.0341 |
| Insulation Resistance at 20°C | M Ω. km | 2500 | 2000 | 2000 | 1500 | 1500 | 1500 | 1500 | 1500 | 1000 | 900 | 900 | 900 | 800 | 700 |
| Capacitance | µF/km | 0.266 | 0.300 | 0.328 | 0.373 | 0.427 | 0.463 | 0.502 | 0.550 | 0.593 | 0.615 | 0.641 | 0.673 | 0.755 | 0.842 |
| Inductance (Trefoil) | mH/km | 0.406 | 0.380 | 0.364 | 0.343 | 0.326 | 0.317 | 0.308 | 0.297 | 0.287 | 0.282 | 0.278 | 0.271 | 0.263 | 0.260 |
| Reactance (Trefoil) | Ω/km | 0.128 | 0.119 | 0.114 | 0.108 | 0.102 | 0.100 | 0.0968 | 0.0932 | 0.0903 | 0.0885 | 0.0871 | 0.0851 | 0.0827 | 0.0816 |
| Current Carrying Capacity : | | | | | | | | | | | | | | | |
| - Buried direct in ground at 20°C [3] (Trefoil) | A | 140 | 166 | 196 | 239 | 285 | 323 | 361 | 406 | 469 | 526 | 590 | 655 [1] | 740 [1] | 840 [1] |
| (Flat spaced) | A | 144 | 172 | 203 | 246 | 293 | 332 | 366 | 410 | 470 | 524 | 572 | 650 [1] | 730 [1] | 820 [1] |
| - In air at 30°C (Trefoil) | A | 163 | 198 | 238 | 296 | 361 | 417 | 473 | 543 | 641 | 735 | 845 | 940 [1] | 1080 [1] | 1250 [1] |
| (Flat spaced) | A | 196 | 238 | 286 | 356 | 434 | 500 | 559 | 637 | 745 | 846 | 938 | 1075 [1] | 1235 [1] | 1420 [1] |
| (Flat touching) | A | 167 | 203 | 243 | 303 | 369 | 426 | 481 | 550 | 647 | 739 | 837 | 945 [1] | 1080 [1] | 1250 [1] |
| Short circuit current rating at 1 sec. (approx.) | kA | 3.58 | 5.01 | 7.15 | 10.01 | 13.59 | 17.16 | 21.45 | 26.46 | 34.32 | 42.90 | 57.20 | 71.50 | 90.09 | 114.40 |

[1] Typical data

[2] Diameter compacted shape

[3] Thermal Resistivity of soil : 1.5°K.m/W, Depth of laying : 0.8 m

## 6/10 (12) kV Cu/XLPE/CTS/PVC ( N2XSY ) 1 x ( 25 - 800 ) mm²

### CONSTRUCTION DATA

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Core | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nom. Cross-section Area | mm² | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 | 800 |
| No. of Wire | - | 7 | 7 | 19 | 19 | 19 | 37 | 37 | 37 | 37 | 61 | 61 | 61 | 91 | 91 |
| Diameter of Conductor (approx.) [2] | mm | 5.9 | 7.1 | 8.1 | 9.7 | 11.6 | 12.9 | 14.3 | 16.0 | 18.3 | 20.7 | 23.4 | 26.5 | 30.3 | 34.3 |
| Nom. Thickness of Insulation | mm | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| Nom. Thickness of Copper Tape | mm | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 |
| Nom. Thickness of Outer Sheath | mm | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.2 | 2.2 | 2.4 | 2.5 |
| Overall Diameter of Cable | mm | 19.0 | 20.5 | 21.5 | 23.0 | 25.0 | 26.0 | 27.5 | 29.5 | 32.0 | 34.0 | 37.5 | 40.5 | 44.5 | 49.0 |
| Weight of Cable (approx.) | kg/km | 555 | 670 | 800 | 1025 | 1305 | 1550 | 1835 | 2190 | 2765 | 3360 | 4195 | 5235 | 6630 | 8415 |

### ELECTRICAL DATA

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC Voltage Test for 5 min. | kV | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Partial Discharge Test at max. 10pC | kV | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 | 10.38 |
| DC Resistance at 20°C | Ω/km | 0.727 | 0.524 | 0.387 | 0.268 | 0.193 | 0.153 | 0.124 | 0.0991 | 0.0754 | 0.0601 | 0.0470 | 0.0366 | 0.0283 | 0.0221 |
| AC Resistance at 90°C | Ω/km | 0.927 | 0.668 | 0.494 | 0.342 | 0.247 | 0.196 | 0.159 | 0.128 | 0.0978 | 0.0788 | 0.0627 | 0.0503 | 0.0409 | 0.0341 |
| Insulation Resistance at 20°C | M Ω. km | 3000 | 2500 | 2500 | 2000 | 2000 | 2000 | 1500 | 1500 | 1500 | 1500 | 1000 | 900 | 800 | 700 |
| Capacitance | µF/km | 0.211 | 0.236 | 0.257 | 0.291 | 0.330 | 0.357 | 0.386 | 0.421 | 0.468 | 0.518 | 0.573 | 0.637 | 0.715 | 0.797 |
| Inductance (Trefoil) | mH/km | 0.423 | 0.401 | 0.384 | 0.361 | 0.342 | 0.329 | 0.319 | 0.311 | 0.300 | 0.288 | 0.283 | 0.273 | 0.265 | 0.260 |
| Reactance (Trefoil) | Ω/km | 0.133 | 0.126 | 0.121 | 0.113 | 0.108 | 0.103 | 0.100 | 0.0977 | 0.0943 | 0.0904 | 0.0888 | 0.0859 | 0.0834 | 0.0816 |
| Current Carrying Capacity : | | | | | | | | | | | | | | | |
| - Buried direct in ground at 20°C [3] (Trefoil) | A | 140 | 166 | 196 | 239 | 285 | 323 | 361 | 406 | 469 | 526 | 590 | 655 [1] | 740 [1] | 840 [1] |
| (Flat spaced) | A | 144 | 172 | 203 | 246 | 293 | 332 | 366 | 410 | 470 | 524 | 572 | 650 [1] | 730 [1] | 820 [1] |
| - In air at 30°C (Trefoil) | A | 163 | 198 | 238 | 296 | 361 | 417 | 473 | 543 | 641 | 735 | 845 | 940 [1] | 1080 [1] | 1250 [1] |
| (Flat spaced) | A | 196 | 238 | 286 | 356 | 434 | 500 | 559 | 637 | 745 | 846 | 938 | 1075 [1] | 1235 [1] | 1420 [1] |
| (Flat touching) | A | 167 | 203 | 243 | 303 | 369 | 426 | 481 | 550 | 647 | 739 | 837 | 945 [1] | 1080 [1] | 1250 [1] |
| Short circuit current rating at 1 sec. (approx.) | kA | 3.58 | 5.01 | 7.15 | 10.01 | 13.59 | 17.16 | 21.45 | 26.46 | 34.32 | 42.90 | 57.20 | 71.50 | 90.09 | 114.40 |

[1] Typical data

[2] Diameter compacted shape

[3] Thermal Resistivity of soil : 1.5°K.m/W, Depth of laying : 0.8 m



## 8.7/15 (17.5) kV Cu/XLPE/CTS/PVC ( N2XSY ) 1 x ( 25 - 630 ) mm²

### CONSTRUCTION DATA

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Core | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nom. Cross-section Area | mm² | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 |
| No. of Wire | - | 7 | 7 | 19 | 19 | 19 | 37 | 37 | 37 | 37 | 61 | 61 | 61 | 91 |
| Diameter of Conductor (approx.) [2] | mm | 5.9 | 7.1 | 8.1 | 9.7 | 11.6 | 12.9 | 14.3 | 16.0 | 18.3 | 20.7 | 23.4 | 26.5 | 30.3 |
| Nom. Thickness of Insulation | mm | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Nom. Thickness of Copper Tape | mm | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 |
| Nom. Thickness of Outer Sheath | mm | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 2.1 | 2.1 | 2.2 | 2.3 | 2.4 |
| Overall Diameter of Cable | mm | 21.5 | 22.5 | 23.5 | 25.0 | 27.0 | 28.5 | 30.0 | 31.5 | 34.0 | 36.5 | 39.5 | 43.0 | 46.5 |
| Weight of Cable (approx.) | kg/km | 630 | 750 | 885 | 1110 | 1400 | 1650 | 1940 | 2315 | 2900 | 3505 | 4330 | 5400 | 6790 |

### ELECTRICAL DATA

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC Voltage Test for 5 min. | kV | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 |
| Partial Discharge Test at max. 10pC | kV | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 |
| DC Resistance at 20°C | Ω/km | 0.727 | 0.524 | 0.387 | 0.268 | 0.193 | 0.153 | 0.124 | 0.0991 | 0.0754 | 0.0601 | 0.0470 | 0.0366 | 0.0283 |
| AC Resistance at 90°C | Ω/km | 0.927 | 0.668 | 0.494 | 0.342 | 0.247 | 0.196 | 0.159 | 0.128 | 0.0977 | 0.0786 | 0.0626 | 0.0501 | 0.0406 |
| Insulation Resistance at 20°C | M Ω. km | 3500 | 3000 | 3000 | 2500 | 2500 | 2000 | 2000 | 2000 | 1500 | 1500 | 1500 | 1500 | 1000 |
| Capacitance | µF/km | 0.173 | 0.192 | 0.208 | 0.234 | 0.264 | 0.284 | 0.307 | 0.333 | 0.369 | 0.407 | 0.449 | 0.497 | 0.556 |
| Inductance (Trefoil) | mH/km | 0.447 | 0.419 | 0.402 | 0.378 | 0.358 | 0.347 | 0.337 | 0.324 | 0.313 | 0.302 | 0.293 | 0.285 | 0.274 |
| Reactance (Trefoil) | Ω/km | 0.140 | 0.132 | 0.126 | 0.119 | 0.112 | 0.109 | 0.106 | 0.102 | 0.0981 | 0.0948 | 0.0921 | 0.0896 | 0.0861 |
| Current Carrying Capacity : | | | | | | | | | | | | | | |
| - Buried direct in ground at 20°C [3] (Trefoil) | A | 140 | 166 | 196 | 239 | 285 | 323 | 361 | 406 | 469 | 526 | 590 | 655 [1] | 740 [1] |
| (Flat spaced) | A | 144 | 172 | 203 | 246 | 293 | 332 | 366 | 410 | 470 | 524 | 572 | 650 [1] | 730 [1] |
| - In air at 30°C (Trefoil) | A | 163 | 198 | 238 | 296 | 361 | 417 | 473 | 543 | 641 | 735 | 845 | 940 [1] | 1080 [1] |
| (Flat spaced) | A | 196 | 238 | 286 | 356 | 434 | 500 | 559 | 637 | 745 | 846 | 938 | 1075 [1] | 1235 [1] |
| (Flat touching) | A | 167 | 203 | 243 | 303 | 369 | 426 | 481 | 550 | 647 | 739 | 837 | 945 [1] | 1080 [1] |
| Short circuit current rating at 1 sec. (approx.) | kA | 3.58 | 5.01 | 7.15 | 10.01 | 13.59 | 17.16 | 21.45 | 26.46 | 34.32 | 42.90 | 57.20 | 71.50 | 90.09 |

[1] Typical data

[2] Diameter compacted shape

[3] Thermal Resistivity of soil : 1.5°K.m/W, Depth of laying : 0.8 m

## 12/20 (24) kV Cu/XLPE/CTS/PVC ( N2XSY ) 1 x ( 35 - 630 ) mm²

### CONSTRUCTION DATA

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Core | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nom. Cross-section Area | mm² | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 |
| No. of Wire | - | 7 | 19 | 19 | 19 | 37 | 37 | 37 | 37 | 61 | 61 | 61 | 91 |
| Diameter of Conductor (approx.) [2] | mm | 7.1 | 8.1 | 9.7 | 11.6 | 12.9 | 14.3 | 16.0 | 18.3 | 20.7 | 23.4 | 26.5 | 30.3 |
| Nom. Thickness of Insulation | mm | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| Nom. Thickness of Copper Tape | mm | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 |
| Nom. Thickness of Outer Sheath | mm | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 |
| Overall Diameter of Cable | mm | 25.0 | 26.0 | 27.5 | 29.5 | 30.5 | 32.0 | 34.0 | 36.5 | 39.0 | 42.0 | 45.0 | 49.0 |
| Weight of Cable (approx.) | kg/km | 840 | 975 | 1205 | 1500 | 1755 | 2065 | 2430 | 3025 | 3655 | 4495 | 5555 | 6975 |

### ELECTRICAL DATA

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC Voltage Test for 5 min. | kV | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| Partial Discharge Test at max. 10pC | kV | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 | 20.76 |
| DC Resistance at 20°C | Ω/km | 0.524 | 0.387 | 0.268 | 0.193 | 0.153 | 0.124 | 0.0991 | 0.0754 | 0.0601 | 0.0470 | 0.0366 | 0.0283 |
| AC Resistance at 90°C | Ω/km | 0.668 | 0.494 | 0.342 | 0.247 | 0.196 | 0.159 | 0.127 | 0.0976 | 0.0785 | 0.0625 | 0.0500 | 0.0404 |
| Insulation Resistance at 20°C | M Ω. km | 3500 | 3500 | 3000 | 2500 | 2500 | 2500 | 2000 | 2000 | 2000 | 1500 | 1500 | 1500 |
| Capacitance | µF/km | 0.165 | 0.178 | 0.199 | 0.224 | 0.240 | 0.258 | 0.279 | 0.309 | 0.339 | 0.373 | 0.412 | 0.459 |
| Inductance (Trefoil) | mH/km | 0.440 | 0.422 | 0.397 | 0.375 | 0.361 | 0.350 | 0.339 | 0.327 | 0.315 | 0.306 | 0.295 | 0.285 |
| Reactance (Trefoil) | Ω/km | 0.138 | 0.133 | 0.125 | 0.118 | 0.113 | 0.110 | 0.107 | 0.103 | 0.0990 | 0.0960 | 0.0925 | 0.0894 |
| Current Carrying Capacity : | | | | | | | | | | | | | |
| - Buried direct in ground at 20°C [3] (Trefoil) | A | 166 | 196 | 239 | 285 | 323 | 361 | 406 | 469 | 526 | 590 | 655 [1] | 740 [1] |
| (Flat spaced) | A | 172 | 203 | 246 | 293 | 332 | 366 | 410 | 470 | 524 | 572 | 650 [1] | 730 [1] |
| - In air at 30°C (Trefoil) | A | 198 | 238 | 296 | 361 | 417 | 473 | 543 | 641 | 735 | 845 | 940 [1] | 1080 [1] |
| (Flat spaced) | A | 238 | 286 | 356 | 434 | 500 | 559 | 637 | 745 | 846 | 938 | 1075 [1] | 1235 [1] |
| (Flat touching) | A | 203 | 243 | 303 | 369 | 426 | 481 | 550 | 647 | 739 | 837 | 945 [1] | 1080 [1] |
| Short circuit current rating at 1 sec. (approx.) | kA | 5.01 | 7.15 | 10.01 | 13.59 | 17.16 | 21.45 | 26.46 | 34.32 | 42.90 | 57.20 | 71.50 | 90.09 |

[1] Typical data

[2] Diameter compacted shape

[3] Thermal Resistivity of soil : 1.5°K.m/W, Depth of laying : 0.8 m



## 18/30 (36) kV Cu/XLPE/CTS/PVC ( N2XSY ) 1 x ( 50 - 630 ) mm²

### CONSTRUCTION DATA

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Core | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nom. Cross-section Area | mm² | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 |
| No. of Wire | - | 19 | 19 | 19 | 37 | 37 | 37 | 37 | 61 | 61 | 61 | 91 |
| Diameter of Conductor (approx.) [2] | mm | 8.1 | 9.7 | 11.6 | 12.9 | 14.3 | 16.0 | 18.3 | 20.7 | 23.4 | 26.5 | 30.3 |
| Nom. Thickness of Insulation | mm | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| Nom. Thickness of Copper Tape | mm | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 | 0.085 |
| Nom. Thickness of Outer Sheath | mm | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 |
| Overall Diameter of Cable | mm | 31.0 | 32.5 | 35.0 | 36.0 | 38.0 | 39.5 | 42.0 | 44.5 | 47.5 | 50.5 | 54.5 |
| Weight of Cable (approx.) | kg/km | 1235 | 1475 | 1800 | 2065 | 2390 | 2770 | 3385 | 4020 | 4880 | 5995 | 7450 |

### ELECTRICAL DATA

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC Voltage Test for 5 min. | kV | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |
| Partial Discharge Test at max. 10pC | kV | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 | 31.14 |
| DC Resistance at 20°C | Ω/km | 0.387 | 0.268 | 0.193 | 0.153 | 0.124 | 0.0991 | 0.0754 | 0.0601 | 0.0470 | 0.0366 | 0.0283 |
| AC Resistance at 90°C | Ω/km | 0.494 | 0.342 | 0.247 | 0.196 | 0.159 | 0.127 | 0.0974 | 0.0783 | 0.0622 | 0.0497 | 0.0400 |
| Insulation Resistance at 20°C | M Ω. km | 4000 | 4000 | 3500 | 3500 | 3000 | 3000 | 2500 | 2500 | 2000 | 2000 | 2000 |
| Capacitance | µF/km | 0.138 | 0.153 | 0.170 | 0.182 | 0.194 | 0.209 | 0.229 | 0.250 | 0.274 | 0.300 | 0.333 |
| Inductance (Trefoil) | mH/km | 0.457 | 0.430 | 0.409 | 0.394 | 0.384 | 0.369 | 0.355 | 0.342 | 0.330 | 0.318 | 0.306 |
| Reactance (Trefoil) | Ω/km | 0.144 | 0.135 | 0.129 | 0.124 | 0.121 | 0.116 | 0.111 | 0.107 | 0.104 | 0.0997 | 0.0961 |
| Current Carrying Capacity : | | | | | | | | | | | | |
| - Buried direct in ground at 20°C [3] (Trefoil) | A | 196 | 239 | 285 | 323 | 361 | 406 | 469 | 526 | 590 | 655 [1] | 740 [1] |
| (Flat spaced) | A | 203 | 246 | 293 | 332 | 366 | 410 | 470 | 524 | 572 | 650 [1] | 730 [1] |
| - In air at 30°C (Trefoil) | A | 238 | 296 | 361 | 417 | 473 | 543 | 641 | 735 | 845 | 940 [1] | 1080 [1] |
| (Flat spaced) | A | 286 | 356 | 434 | 500 | 559 | 637 | 745 | 846 | 938 | 1075 [1] | 1235 [1] |
| (Flat touching) | A | 243 | 303 | 369 | 426 | 481 | 550 | 647 | 739 | 837 | 945 [1] | 1080 [1] |
| Short circuit current rating at 1 sec. (approx.) | kA | 7.15 | 10.01 | 13.59 | 17.16 | 21.45 | 26.46 | 34.32 | 42.90 | 57.20 | 71.50 | 90.09 |

[1] Typical data

[2] Diameter compacted shape

[3] Thermal Resistivity of soil : 1.5°K.m/W, Depth of laying : 0.8 m