



H a l o g e n F r e e a n d M u d R e s i s t a n t C a b l e

Marine & Offshore Cable



The enterprise that is together with human beings through the information and energy transmission technology



H a l o g e n f r e e a n d M u d R e s i s t a n t C a b l e



Leading the World out of sight

For affluent and convenient life of human beings, LG Cable connects the human mind and transmits the light and energy out of sight such as industrial sites, offices, home, and various instruments that we use.

In order to realize the dream of "the world that is connected by the light and that we grow up with energy", all the technologies of LG Cable are based on human beings and environment.

The technology that makes the human life rich and protects and harmonizes the environment is the dream that LG Cable pursues.

LG Cable moves the world in every corner of the world in silence.



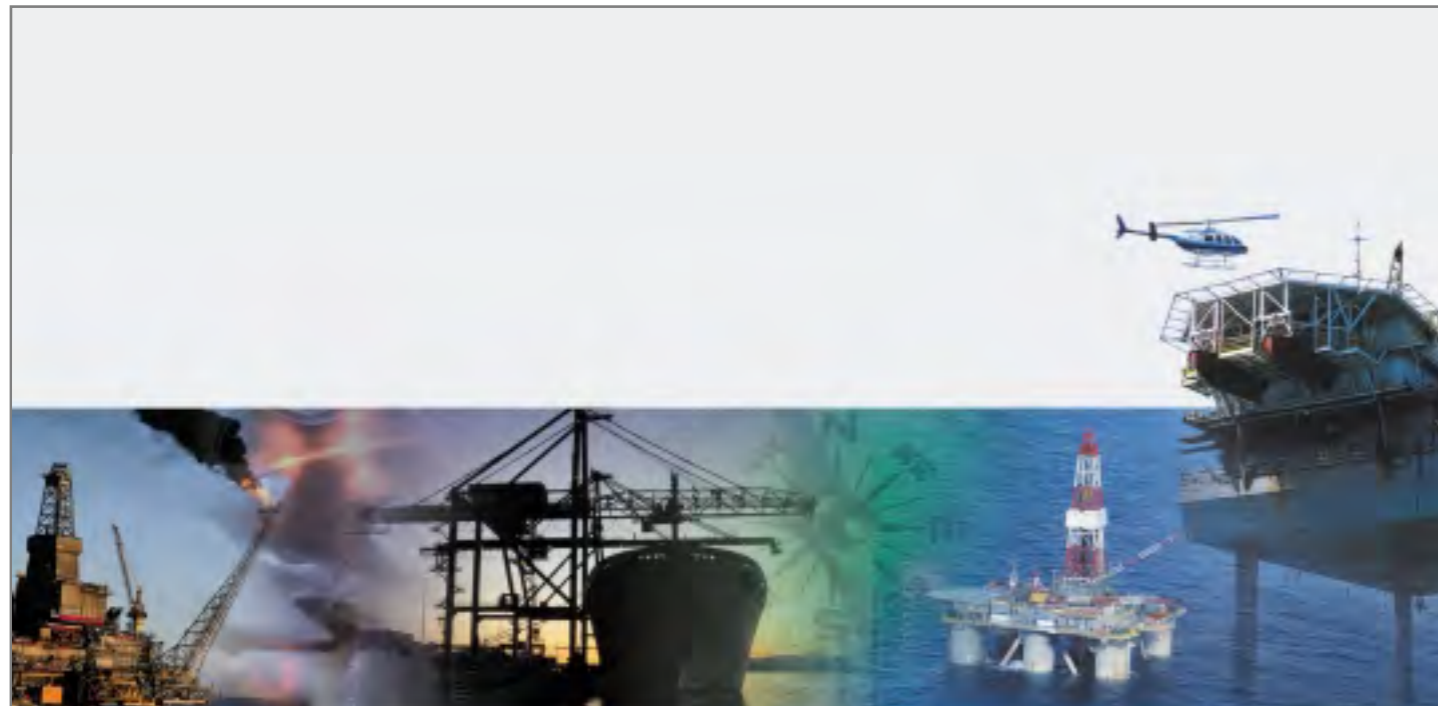
NEK606 Type Cable



Index

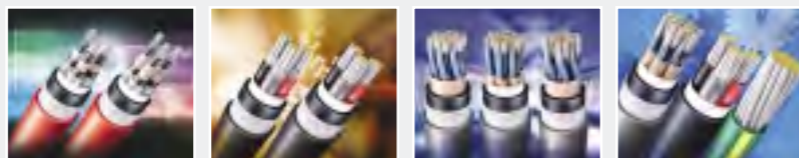
- Reference Standards
- Safety-related Instruction
- Cable Designation
- Index of symbols
- General Requirements
- Electrical Properties
- Mechanical Properties
- Cable Construction Details
- Technical Information
- Other Productions
- Quality Assurance Program

H a l o g e n F r e e a n d M u d R e s i s t a n t C a b l e



REFERENCE STANDARDS

| | |
|---------------|--|
| NEK606 | Cables for offshore installations Halogen Free, or Mud Resistant |
| IEC60228 | Conductors of insulated cables |
| IEC60092-350 | Shipboard power cables - General construction and test requirements |
| IEC60092-351 | Insulation materials for shipboard cables |
| IEC60092-353 | Single and multicore non-radial field power cables with extruded solid insulation for rated voltages 1kV and 3kV |
| IEC60092-354 | Single and three-core power cables with extruded solid insulation for rated voltages 6kV, 10kV and 15kV |
| IEC60092-359 | Sheathing materials for shipboard cables |
| IEC60092-375 | Shipboard telecommunication cables and radio-frequency cables |
| IEC60331 | Test for electric cables under fire conditions |
| IEC60332-1 | Tests on electric cables under fire conditions |
| IEC60332-3 | Tests on electric cables under fire conditions (Cat.A,A/F) |
| IEC60502 | Extruded solid dielectric insulated power cables for rated voltages from 1KV up to 30KV |
| IEC60754 | Test on gases evolved during combustion of electric cables |
| IEC60811 | Common test methods for insulating and sheathing materials. |
| IEC61034 | Measurement of smoke density of electrical cables burning under designed conditions |
| CSAC22.2No.38 | Cold impact & Cold bending test for wires or cables |



Safety-related Instruction

The following safety-related instructions are to help you use products safely and precisely, and to prevent unexpected danger or damage.

According to the extent of risk, damage and emergency of risk occurrence anticipated when products are incorrectly used, the safety-related instructions are classified as follows;

다음에 표시되어 있는 안전에 관련된 주의 사항들은 제품을 안전하고, 정확하게 사용하여, 예기치 못한 위험이나 손해를 사전에 방지하기 위한 것입니다.

안전에 관련된 주의 사항은 잘못 사용하면 예상되는 위험과 손해의 크기 정도, 그리고 위험 발생의 긴급 정도에 따라서 다음과 같이 구분하고 있습니다.



Warning

In case of using products incorrectly by ignoring this indication, it is possible to anticipate mortality risks or severe wounds.

(이 표시 사항을 무시하여 잘못 사용하는 경우, 사망 또는 중상의 가능성이 예상되는 내용을 기재한 것입니다)



Caution

In case of using products incorrectly by ignoring this indication, it is possible to anticipate slight wounds or property damage.

(이 표시사항을 무시하여 잘못 사용하는 경우, 경상이나 재산상 손해가 발생할 수 있는 내용을 기재한 것입니다)

Warning



It may be the cause of a fire or damage by a fire. (소손, 화재 원인이 됩니다.)

Do not use in excess of a rated voltage and an allowable current.

(정격 전압 허용전류를 초과하여 사용하지 마십시오.)



It may be the cause of an electric shock. (감전의 원인이 됩니다.)

Do not conduct connection operations when power is on.

(연결작업은 전원이 인가된 상태에서는 하지 마십시오.)



It may be the cause of a fire or an electric shock. (화재, 감전의 원인이 됩니다.)

Do not disassemble or convert products.

(제품을 분해, 개조하지 마십시오.)



It may be the cause of a fire or damage by a fire. (소손, 화재의 원인이 됩니다.)

Keep heat-resisting temperature of cable, considering the environment of using.

(사용환경을 고려한 케이블의 내열온도를 지켜 주십시오.)



Be sure to earth an screened products.

(차폐층은 확실하게 접지 시켜 주십시오.)

Caution



Cable is not untied. (케이블이 풀리지 않습니다.)

Pile up drums after making them stand.

(드럼은 세워서 적치하십시오.)



It may be the cause of damage to a cable. (케이블 손상의 원인이 됩니다.)

When you hang a drum on the crane, keep sufficient length to the extent that an angle of the wire can be under 60 degree.

(드럼을 크레인에 걸 때는 와이어 각도가 60도 이하가 되도록 충분한 길이를 유지하십시오.)



It may be the cause of disconnection or breakdown of a cable.

(케이블 단선 및 파손의 원인이 됩니다.)

Keep the permissible pulling tension and radius of bend.

(허용 인장력, 허용 곡률반경을 지켜주십시오.)



It may be the cause of damage to a cable. (케이블 손상의 원인이 됩니다.)

Do not drop a drum. (드럼을 떨어뜨리지 마십시오.)

Use an A-frame carrier or a crane. (지게차나 크레인을 사용하십시오.)



It may be the cause of damage to a cable. (케이블 손상의 원인이 됩니다.)

In case of processing the terminal of cable, keep water from percolating.

(케이블 단말처리시 물이 침투되지 않도록 하십시오.)



It may be the cause of damage to a cable. (케이블 손상의 원인이 됩니다.)

Do not use except its fixed purpose according to each kind of cable.

(케이블 종류에 따라 정해진 용도 이외는 사용하지 마십시오.)

- Before using products, read these instructions. (제품을 사용하기 전에 본 주의사항을 읽어 주시기 바랍니다.)
- Use products after verifying indefinite details besides the above descriptions from our company. (상기 사항외 명확치 않은 부분은 당사에 확인하고 사용하시기 바랍니다.)
- Keep this safety-related instructions in the place it can always be seen by users after reading it. (본 안전관련 주의사항을 읽고 난 후 사용하는 사람이 언제나 볼 수 있는 장소에 보관하십시오.)



Cable Designation

| Symbol | Max. Temp.(°C) | Type of Cable | Page |
|---------------|----------------|---|------|
| 3.6/6KV RFOU | 85 | 3.6/6KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 14 |
| 3.6/6KV RFCU | 85 | 3.6/6KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 14 |
| 3.6/6KV RFOB | 85 | 3.6/6KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 14 |
| 3.6/6KV RFCB | 85 | 3.6/KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 14 |
| 3.6/6KV BFOU | 85 | 3.6/6KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 17 |
| 3.6/6KV BFCU | 85 | 3.6/6KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 17 |
| 3.6/6KV BFOB | 85 | 3.6/6KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering tinned copper wire braid armored and SE1 sheathed cable | 17 |
| 3.6/6KV BFCB | 85 | 3.6/6KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 17 |
| 6/10KV RFOU | 85 | 6/10KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 15 |
| 6/10KV RFCU | 85 | 6/10KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 15 |
| 6/10KV RFOB | 85 | 6/10KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 15 |
| 6/10KV RFCB | 85 | 6/10KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering galvanized steel wire braid armored and SE1 sheathed cable | 15 |
| 6/10KV BFOU | 85 | 6/10KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 18 |
| 6/10KV BFCU | 85 | 6/10KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 18 |
| 6/10KV BFOB | 85 | 6/10KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 18 |
| 6/10KV BFCB | 85 | 6/10KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 18 |
| 8.7/15KV RFOU | 85 | 8.7/15KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 16 |
| 8.7/15KV RFCU | 85 | 8.7/15KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 16 |
| 8.7/15KV RFOB | 85 | 8.7/15KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 16 |
| 8.7/15KV RFCB | 85 | 8.7/15KV EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 16 |
| 8.7/15KV BFOU | 85 | 8.7/15KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 19 |

| Symbol | Max. Temp.(°C) | Type of Cable | Page |
|---------------|----------------|---|------|
| 8.7/15KV BFCU | 85 | 8.7/15KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 19 |
| 8.7/15KV BFOB | 85 | 8.7/15KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cables | 19 |
| 8.7/15KV BFCB | 85 | 8.7/15KV Mica tape, EPR insulated, Tinned cu tape or tinned copper wire shield, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 19 |
| 0.6/1KV RFOU | 85 | 0.6/1KV EPR insulated, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 20 |
| 0.6/1KV RFCU | 85 | 0.6/1KV EPR insulated, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 20 |
| 0.6/1KV RFOB | 85 | 0.6/1KV EPR insulated, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 20 |
| 0.6/1KV RFCB | 85 | 0.6/1KV EPR insulated, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 20 |
| 0.6/1KV BFOU | 85 | 0.6/1KV Mica tape, EPR insulated, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 24 |
| 0.6/1KV BFCU | 85 | 0.6/1KV Mica tape, EPR insulated, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 24 |
| 0.6/1KV BFOB | 85 | 0.6/1KV Mica tape, EPR insulated, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 24 |
| 0.6/1KV BFCB | 85 | 0.6/1KV Mica tape, EPR insulated, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 24 |
| 250V RFOU(c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 28 |
| 250V RFCU(c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 28 |
| 250V RFOB(c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 28 |
| 250V RFCB(c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 28 |
| 250V BFOU(c) | 85 | 250V Mica tape, EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 30 |
| 250V BFCU(c) | 85 | 250V Mica tape, EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 30 |
| 250V BFOB(c) | 85 | 250V Mica tape EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 30 |
| 250V BFCB(c) | 85 | 250V Mica tape EPR insulated, copper/polyester tape or aluminum/polyester tape collective screen, halogen free covering, galvanized steel wire braid armored and SE1 sheathed cable | 30 |

| Symbol | Max. Temp.(°C) | Type of Cable | Page |
|--------------------------|-----------------|--|------|
| 250V RFOU(i) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 32 |
| 250V RFCU(i) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 32 |
| 250V RFOB(i) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 32 |
| 250V RFCB(i) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 32 |
| 250V BFOU(i) | 85 | 250V Mica tape, EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 34 |
| 250V BFCU(i) | 85 | 250V Mica tape, EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 34 |
| 250V BFOB(i) | 85 | 250V Mica tape EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 34 |
| 250V BFCB(i) | 85 | 250V Mica tape EPR insulated, copper/polyester tape or aluminum/polyester tape individual screen, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 34 |
| 250V RFOU(i/c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 36 |
| 250V RFCU(i/c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 36 |
| 250V RFOB(i/c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 36 |
| 250V RFCB(i/c) | 85 | 250V EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 36 |
| 250V BFOU(i/c) | 85 | 250V Mica tape, EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, tinned copper wire braid armored and SHF2 sheathed cable | 38 |
| 250V BFCU(i/c) | 85 | 250V Mica tape, EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, galvanized steel wire braid armored and SHF2 sheathed cable | 38 |
| 250V BFOB(i/c) | 85 | 250V Mica tape EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, tinned copper wire braid armored and SE1 sheathed cable | 38 |
| 250V BFCB(i/c) | 85 | 250V Mica tape EPR insulated, copper/polyester tape or aluminum/polyester tape individual and collective screen, halogen free inner covering, galvanized steel wire braid armored and SE1 sheathed cable | 38 |
| 0.6/1KV RU | 85 | 0.6/1 KV EPR insulated and SHF2 sheathed cable | 40 |
| 0.6/1KV RB | 85 | 0.6/1KV EPR insulated and SE1 sheathed cable | 40 |
| 0.6/1KV RX 0.6/1KV UX | 85 | 0.6/1KV SHF2 insulated cable | 44 |




| | Letter | Meaning | Remark |
|-----------------|--------|---|--|
| 1 st | R | Flame retardant cables | IEC60332-3 Cat.A |
| | B | Fire resistant & Flame retardant cables | IEC60331 & IEC60332-3 Cat.A |
| | U | Halogen free thermoset compound | IEC60092-359 SHF2 |
| 2 nd | F | Bedding or taping | |
| 3 rd | O | Tinned copper wire braid | |
| | C | Galvanized steel wire braid | |
| | X | No armor | |
| 4 th | U | Halogen free thermoset compound | IEC60092-359 SHF2 |
| | B | Mud resistant type | IEC60092-359 SE1 |
| 5 th | (i) | Individual screen | Copper/polyester or Aluminum/polyester with drain wire |
| | (c) | Collective screen | Copper/polyester or Aluminum/polyester with drain wire |
| | (i/c) | Individual & collective screen | Copper/polyester or Aluminum/polyester with drain wire |



General Requirements

• Flame retardant(for completed cable)

The cables shall withstand the test specified in IEC60332-3 Cat.A or A/F.

• Fire resistant(for fire resistant type completed cable)

Fire resistant cables shall be tested according to IEC60331.

• Content of halogen(for inner covering & sheath)

As a rule, all cables shall be halogen free according to IEC60754-1,maximum content of halogen=5mg/g.

For mud resistant cables, a halogen content necessary to achieve diesel based mud resistant,will be acceptable.

• Smoke emission(for completed cable)

When tested according to IEC61034-2, smoke emission shall be kept to minimum 60% transmittance.

• Oil resistant(for outer sheath)

All thermoset sheathed cables shall be suitable for an oil production installation.

The oil resistant properties shall demonstrated by a test according to IEC6092-359 Table 2 clause 3.

• Mud resistant

Mud resistant cables shall be designed with sheathing compounds suitable for installation and operation on contact with Mud unless otherwise specified.

The mud resistant properties shall be demonstrated by the following test procedure;

The cables shall be immersed in Mud at 70 °C, and tested for changes of elongation at break, tensile strength, volume swelling, weight increase and oxygen index after 56 days.

| | | |
|----------------|-----------------------|-----------|
| Requirements : | - Elongation at break | Max. ±25% |
| | - Tensile strength | Max. ±25% |
| | - Volume swelling | Max. 20% |
| | - Weight increase | Max. 15% |
| | - Oxygen index | Min. 25% |

• Cold Resistant

Test method and requirements shall comply with CSA C22.2 No.38.



Electrical Properties

For 3.6/6 KV cables

| Conductor Size | Conductor Resistance (20 °C) | Insulation Resistance | | Test Voltage |
|----------------|---------------------------------|-----------------------|---------|--------------|
| | | (20 °C) | (85 °C) | |
| SQMM | Ohm/km | Mohm-km | | KV/5min |
| 25 | 0.734 | 1100 | 1.1 | 11 |
| 35 | 0.529 | 900 | 0.9 | 11 |
| 50 | 0.391 | 800 | 0.8 | 11 |
| 70 | 0.27 | 700 | 0.7 | 11 |
| 95 | 0.195 | 600 | 0.6 | 11 |
| 120 | 0.154 | 550 | 0.6 | 11 |
| 150 | 0.126 | 500 | 0.5 | 11 |
| 185 | 0.1 | 450 | 0.5 | 11 |
| 240 | 0.0762 | 400 | 0.4 | 11 |
| 300 | 0.0607 | 350 | 0.4 | 11 |

For 6/10 KV cables

| Conductor Size | Conductor Resistance (20 °C) | Insulation Resistance | | Test Voltage |
|----------------|---------------------------------|-----------------------|---------|--------------|
| | | (20 °C) | (85 °C) | |
| SQMM | Ohm/km | Mohm-km | | KV/5min |
| 25 | 0.734 | 1100 | 1.1 | 15 |
| 35 | 0.529 | 1000 | 1.0 | 15 |
| 50 | 0.391 | 900 | 0.9 | 15 |
| 70 | 0.27 | 800 | 0.8 | 15 |
| 95 | 0.195 | 700 | 0.7 | 15 |
| 120 | 0.154 | 600 | 0.6 | 15 |
| 150 | 0.126 | 550 | 0.6 | 15 |
| 185 | 0.1 | 500 | 0.5 | 15 |
| 240 | 0.0762 | 450 | 0.5 | 15 |
| 300 | 0.0607 | 400 | 0.4 | 15 |

For 8.7/15 KV cables

| Conductor Size | Conductor Resistance (20 °C) | Insulation Resistance | | Test Voltage |
|----------------|---------------------------------|-----------------------|---------|--------------|
| | | (20 °C) | (85 °C) | |
| SQMM | Ohm/km | Mohm-km | | KV/5min |
| 25 | 0.734 | 1400 | 1.4 | 22 |
| 35 | 0.529 | 1200 | 1.2 | 22 |
| 50 | 0.391 | 1100 | 1.1 | 22 |
| 70 | 0.27 | 950 | 1.0 | 22 |
| 95 | 0.195 | 850 | 0.9 | 22 |
| 120 | 0.154 | 750 | 0.8 | 22 |
| 150 | 0.126 | 700 | 0.7 | 22 |
| 185 | 0.1 | 650 | 0.7 | 22 |
| 240 | 0.0762 | 550 | 0.6 | 22 |
| 300 | 0.0607 | 500 | 0.5 | 22 |

For 250V cables

| Conductor Size | Conductor Resistance (20 °C) | Insulation Resistance | | Test Voltage |
|----------------|---------------------------------|-----------------------|---------|--------------|
| | | (20 °C) | (85 °C) | |
| SQMM | Ohm/km | Mohm-km | | KV/5min |
| 0.75 | 26.0 | 1400 | 1.4 | 1.5 |
| 1 | 18.2 | 1250 | 1.3 | 1.5 |
| 1.5 | 12.2 | 1100 | 1.1 | 1.5 |

For 0.6/1KV cables

| Conductor Size | Conductor Resistance (20 °C) | Insulation Resistance ^{Note)} | | Test Voltage |
|----------------|---------------------------------|--|---------|--------------|
| | | (20 °C) | (85 °C) | |
| SQMM | Ohm/km | Mohm-km | | KV/5min |
| 1.5 | 12.2 | 1300 | 1.3 | 3.5 |
| 2.5 | 7.56 | 1100 | 1.1 | 3.5 |
| 4 | 4.7 | 900 | 0.9 | 3.5 |
| 6 | 3.11 | 800 | 0.8 | 3.5 |
| 10 | 1.84 | 700 | 0.7 | 3.5 |
| 16 | 1.16 | 600 | 0.6 | 3.5 |
| 25 | 0.734 | 500 | 0.5 | 3.5 |
| 35 | 0.529 | 450 | 0.5 | 3.5 |
| 50 | 0.391 | 450 | 0.5 | 3.5 |
| 70 | 0.27 | 450 | 0.5 | 3.5 |
| 95 | 0.195 | 400 | 0.4 | 3.5 |
| 120 | 0.154 | 350 | 0.4 | 3.5 |
| 150 | 0.126 | 350 | 0.4 | 3.5 |
| 185 | 0.1 | 350 | 0.4 | 3.5 |
| 240 | 0.0762 | 350 | 0.4 | 3.5 |
| 300 | 0.0607 | 350 | 0.4 | 3.5 |

Note) For UX, RX cables, this shall not be considered.

Mechanical Properties of EPR

Applicable standard : IEC60092-351

| Description | Unit | EPR |
|---|-------------------|--------------|
| Maximum rated conductor temperature for normal operation | °C | 85 |
| A. Without aging | | |
| 1. Tensile strength | N/mm ² | Min. 4.2 |
| 2. Elongation at rupture | % | Min. 200 |
| B. After aging in air oven (135 ± 3 °C/168hrs) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. The variation of Elongation at rupture | % | 70~130 |
| C. Characteristics of aging resistance in pressurized air (127 ± 1 °C/40hrs, 0.55Mpa) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. The variation of Elongation at rupture | % | 70~130 |
| D. Compatibility test (95 ± 2 °C/168hrs) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. The variation of Elongation at rupture | % | 70~130 |
| E. Voltage test for 4hr | - | To withstand |
| F. Constant for insulation resistance at 85 °C(high temperature) | - | Min. 3.67 |
| G. Ozone resistance(0.025-0.03%ozone/30hr) | - | No crack |
| H. Electrical capacitance characteristics (Immersion in warm water at 50 °C) | | |
| 1. Increase between 1st day and 14st day | % | Max. 15 |
| 2. Increase between 7st day and 14st day | % | Max. 5 |
| I. Hot set test(250 ± 3 °C/15min.,20N/cm ²) | | |
| 1. Permissible elongation | % | Max. 175 |
| 2. Permanent elongation | % | Max. 15 |



Mechanical Properties of SHF2

Applicable standard:IEC 60092-359

| Description | Unit | SHF2 |
|---|-------------------|----------|
| Maximum rated conductor temperature for normal operation | °C | 85 |
| A. Without aging | | |
| 1. Tensile strength | N/mm ² | Min. 9.0 |
| 2. Elongation at rupture | % | Min. 120 |
| B. After aging in air oven (120 ± 2 °C/168hrs) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. The variation of Elongation at rupture | % | 70~130 |
| C. After immersion in hot oil (100 ± 2 °C/24hrs) | | |
| 1. The variation of Tensile strength | % | 60~140 |
| 2. The variation of Elongation at rupture | % | 60~140 |
| D. Compatibility test (95 ± 2 °C/168hrs) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. The variation of Elongation at rupture | % | 70~130 |
| E. Hot set test (200 ± 3 °C/15min.,20N/cm ²) | | |
| 1. Permissible elongation | % | Max.175 |
| 2. Permanent elongation | % | Max.25 |
| F. Cold resistant characteristics | | |
| 1. Bending(Insulation dia: not more than 12.5mm) (-15 °C/16hr) | - | No crack |
| 2. Elongation test(Insulation dia: not more than 12.5mm) (-15 °C/4hr) | % | Min. 20 |
| 3. Impact test (-15 °C/16hr) | - | No crack |
| G. Ozone resistance (0.025-0.03%ozone,25 ± 2 °C/24hrs) | - | No crack |



Mechanical Properties of SE1

Applicable standard:IEC 60092-359

| Description | Unit | SE1 |
|---|-------------------|-----------|
| Maximum rated conductor temperature for normal operation | °C | 85 |
| A. Without aging | | |
| 1. Tensile strength | N/mm ² | Min. 10.0 |
| 2. Elongation at rupture | % | Min. 300 |
| B. After aging in air oven (100 ± 2 °C/168hrs) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. Elongation at rupture | % | Min. 250 |
| 3. The variation of Elongation at rupture | % | 60~140 |
| C. After immersion in hot oil (100 ± 2 °C/24hrs) | | |
| 1. The variation of Tensile strength | % | 60~140 |
| 2. The variation of Elongation at rupture | % | 60~140 |
| D. Compatibility test (95 ± 2 °C/168hrs) | | |
| 1. The variation of Tensile strength | % | 70~130 |
| 2. Elongation at rupture | % | Min. 250 |
| 3. The variation of Elongation at rupture | % | 60~140 |
| E. Hot set test (200 ± 3 °C/15min., 20N/cm ²) | | |
| 1. Permissible elongation | % | Max.175 |
| 2. Permanent elongation | % | Max.15 |
| F. Ozone resistance (0.025-0.03%ozone, 25 ± 2 °C/24hrs) | - | No crack |



RFOU · RFCU · RFOB · RFCB

NEK606 Type Cable



Voltage rating

- 3.6/6KV, 6/10KV, 8.7/15KV

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-354
- NEK 606
- IEC 60332-3 Cat. AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC 60228 Class 2
- Conductor Screen
Semi-conducting compound
- Insulation
HF-EPR as per IEC 60092-351
- Insulation Screen
Semi-conducting compound
- Metallic Screen
Tinned copper wire braid or Tinned Copper tape
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- RFOU, RFCU, RFOB, RFCB
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 1 : 3.6/6KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.0 | 1.0 | 19.8 | 0.3 | 1.7 | 25.5 | 1.5 | 1070 |
| 35 | 7/2.52 | 7.56 | 3.0 | 1.0 | 21.1 | 0.3 | 1.7 | 26.5 | 1.6 | 1220 |
| 50 | 19/1.78 | 8.9 | 3.0 | 1.0 | 22.0 | 0.3 | 1.8 | 28.0 | 1.7 | 1400 |
| 70 | 19/2.14 | 10.7 | 3.0 | 1.0 | 23.7 | 0.3 | 1.8 | 30.0 | 1.8 | 1650 |
| 95 | 19/2.52 | 12.6 | 3.0 | 1.0 | 25.8 | 0.3 | 1.9 | 32.0 | 1.9 | 1980 |
| 120 | 37/2.03 | 14.21 | 3.0 | 1.2 | 28.2 | 0.3 | 2.0 | 34.5 | 2.1 | 2370 |
| 150 | 37/2.25 | 15.75 | 3.0 | 1.2 | 29.3 | 0.3 | 2.1 | 36.0 | 2.2 | 2570 |
| 185 | 37/2.52 | 17.64 | 3.0 | 1.2 | 31.6 | 0.4 | 2.2 | 38.5 | 2.3 | 3140 |
| 240 | 61/2.25 | 20.25 | 3.0 | 1.2 | 34.6 | 0.4 | 2.3 | 42.0 | 2.5 | 3970 |
| 300 | 61/2.52 | 22.68 | 3.0 | 1.2 | 36.5 | 0.4 | 2.4 | 44.0 | 2.7 | 4550 |

Table 2 : 3.6/6KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.0 | 1.4 | 41.4 | 0.4 | 2.6 | 49.0 | 3.0 | 3700 |
| 35 | 7/2.52 | 7.56 | 3.0 | 1.4 | 44.0 | 0.4 | 2.7 | 52.0 | 3.1 | 4230 |
| 50 | 19/1.78 | 8.9 | 3.0 | 1.4 | 45.9 | 0.4 | 2.7 | 54.0 | 3.3 | 4880 |
| 70 | 19/2.14 | 10.7 | 3.0 | 1.6 | 50.0 | 0.4 | 2.9 | 58.7 | 3.5 | 5990 |
| 95 | 19/2.52 | 12.6 | 3.0 | 1.6 | 54.7 | 0.4 | 3.1 | 63.5 | 3.5 | 7270 |
| 120 | 37/2.03 | 14.21 | 3.0 | 1.6 | 59.0 | 0.4 | 3.3 | 68.0 | 3.7 | 8500 |
| 150 | 37/2.25 | 15.75 | 3.0 | 1.6 | 61.0 | 0.4 | 3.4 | 71.0 | 3.7 | 9730 |

Table 3 : 3.6/6KV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.0 | 1.4 | 41.4 | 0.4 | 2.6 | 49.7 | 3.0 | 4500 |
| 35 | 7/2.52 | 7.56 | 3.0 | 1.4 | 44.0 | 0.4 | 2.7 | 52.5 | 3.1 | 5150 |
| 50 | 19/1.78 | 8.9 | 3.0 | 1.4 | 46.4 | 0.4 | 2.8 | 55.0 | 3.3 | 6050 |
| 70 | 19/2.14 | 10.7 | 3.0 | 1.6 | 50.9 | 0.4 | 2.9 | 60.0 | 3.5 | 7400 |
| 95 | 19/2.52 | 12.6 | 3.0 | 1.6 | 56.4 | 0.4 | 3.2 | 66.0 | 3.7 | 9130 |
| 120 | 37/2.03 | 14.21 | 3.0 | 1.6 | 60.9 | 0.4 | 3.3 | 70.8 | 3.8 | 10500 |
| 150 | 37/2.25 | 15.75 | 3.0 | 1.6 | 62.9 | 0.4 | 3.4 | 73.0 | 3.9 | 12320 |

Table 4 : 6/10KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.4 | 1.0 | 20.6 | 0.3 | 1.7 | 27.0 | 1.6 | 1160 |
| 35 | 7/2.52 | 7.56 | 3.4 | 1.0 | 21.9 | 0.3 | 1.8 | 28.3 | 1.7 | 1400 |
| 50 | 19/1.78 | 8.9 | 3.4 | 1.0 | 22.8 | 0.3 | 1.8 | 29.5 | 1.7 | 1520 |
| 70 | 19/2.14 | 10.7 | 3.4 | 1.0 | 24.5 | 0.3 | 1.9 | 31.5 | 1.8 | 1810 |
| 95 | 19/2.52 | 12.6 | 3.4 | 1.0 | 26.6 | 0.3 | 2.0 | 33.3 | 2.0 | 2160 |
| 120 | 37/2.03 | 14.21 | 3.4 | 1.2 | 29.0 | 0.3 | 2.0 | 35.8 | 2.1 | 2550 |
| 150 | 37/2.25 | 15.75 | 3.4 | 1.2 | 30.1 | 0.4 | 2.1 | 37.5 | 2.2 | 3100 |
| 185 | 37/2.52 | 17.64 | 3.4 | 1.2 | 32.4 | 0.4 | 2.2 | 40.0 | 2.4 | 3480 |
| 240 | 61/2.25 | 20.25 | 3.4 | 1.2 | 35.4 | 0.4 | 2.3 | 43.5 | 2.6 | 4280 |
| 300 | 61/2.52 | 22.68 | 3.4 | 1.2 | 37.3 | 0.4 | 2.4 | 45.8 | 2.7 | 5120 |

Table 5 : 6/10KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.4 | 1.4 | 43.3 | 0.4 | 2.6 | 51.8 | 3.1 | 4300 |
| 35 | 7/2.52 | 7.56 | 3.4 | 1.4 | 45.9 | 0.4 | 2.7 | 54.5 | 3.3 | 4850 |
| 50 | 19/1.78 | 8.9 | 3.4 | 1.4 | 47.8 | 0.4 | 2.8 | 57.0 | 3.4 | 5600 |
| 70 | 19/2.14 | 10.7 | 3.4 | 1.6 | 51.9 | 0.4 | 3.0 | 62.0 | 3.5 | 6650 |
| 95 | 19/2.52 | 12.6 | 3.4 | 1.6 | 56.6 | 0.4 | 3.2 | 66.2 | 3.5 | 7950 |
| 120 | 37/2.03 | 14.21 | 3.4 | 1.6 | 60.8 | 0.4 | 3.3 | 70.8 | 3.7 | 9210 |



BFOU · BFCU · BFOB · BFCB

NEK606 Type Cable



Voltage rating

- 3.6/6kV, 6/10kV, 8.7/15kV

Maximum conductor temperature

- 85°C

Applied Standards

- IEC 60092-354
- NEK 606
- IEC60331
- IEC 60332-3 Cat.AF
- IEC 60754-1&2
- IEC 61034-2

Construction Details

- Conductor
IEC 60228 Class2
- Conductor Screen
Semi-conducting compound
- Fire proof layer
Mica tape
- Insulation
HF-EPR as per IEC 60092-351
- Insulation Screen
Semi-conducting compound
- Metallic Screen
Tinned copper wire braid or Tinned Copper tape
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- BFOU, BFCU, BFOB, BFCB
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 10 : 3.6/6KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 25 | 7/2.14 | 6.42 | 3.0 | 1.0 | 21.4 | 0.3 | 1.7 | 26.5 | 1.6 | 1140 |
| 35 | 7/2.52 | 7.56 | 3.0 | 1.0 | 22.7 | 0.3 | 1.8 | 28.0 | 1.7 | 1290 |
| 50 | 19/1.78 | 8.9 | 3.0 | 1.0 | 23.6 | 0.3 | 1.8 | 29.0 | 1.8 | 1450 |
| 70 | 19/2.14 | 10.7 | 3.0 | 1.0 | 25.3 | 0.3 | 1.9 | 31.0 | 1.9 | 1780 |
| 95 | 19/2.52 | 12.6 | 3.0 | 1.2 | 27.9 | 0.3 | 2.0 | 34.0 | 2.1 | 2190 |
| 120 | 37/2.03 | 14.21 | 3.0 | 1.2 | 29.8 | 0.3 | 2.1 | 36.0 | 2.2 | 2530 |
| 150 | 37/2.25 | 15.75 | 3.0 | 1.2 | 30.9 | 0.4 | 2.1 | 38.0 | 2.3 | 2980 |
| 185 | 37/2.52 | 17.64 | 3.0 | 1.2 | 33.2 | 0.4 | 2.2 | 40.0 | 2.4 | 3510 |
| 240 | 61/2.25 | 20.25 | 3.0 | 1.2 | 36.2 | 0.4 | 2.4 | 43.5 | 2.6 | 4250 |
| 300 | 61/2.52 | 22.68 | 3.0 | 1.2 | 38.5 | 0.4 | 2.4 | 46.0 | 2.8 | 5000 |

Table 6 : 6/10KV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 25 | 7/2.14 | 6.42 | 3.4 | 1.4 | 43.2 | 0.4 | 2.6 | 51.5 | 3.0 | 5100 |
| 35 | 7/2.52 | 7.56 | 3.4 | 1.4 | 45.8 | 0.4 | 2.7 | 54.5 | 3.1 | 5780 |
| 50 | 19/1.78 | 8.9 | 3.4 | 1.4 | 48.0 | 0.4 | 2.8 | 56.8 | 3.2 | 6700 |
| 70 | 19/2.14 | 10.7 | 3.4 | 1.6 | 52.6 | 0.4 | 3.0 | 61.7 | 3.5 | 8120 |
| 95 | 19/2.52 | 12.6 | 3.4 | 1.6 | 58.0 | 0.4 | 3.2 | 67.6 | 3.7 | 9950 |
| 120 | 37/2.03 | 14.21 | 3.4 | 1.6 | 62.6 | 0.4 | 3.4 | 72.8 | 3.8 | 11540 |
| 150 | 37/2.25 | 15.75 | 3.4 | 1.6 | 66.0 | 0.4 | 3.5 | 76.5 | 3.9 | 13420 |

Table 7 : 8.7/15KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 35 | 7/2.52 | 7.56 | 4.5 | 1.0 | 23.9 | 0.3 | 1.8 | 29.5 | 1.8 | 1510 |
| 50 | 19/1.78 | 8.9 | 4.5 | 1.0 | 25.1 | 0.3 | 1.9 | 30.8 | 1.8 | 1680 |
| 70 | 19/2.14 | 10.7 | 4.5 | 1.0 | 26.9 | 0.3 | 1.9 | 32.9 | 2.0 | 1950 |
| 95 | 19/2.52 | 12.6 | 4.5 | 1.2 | 29.2 | 0.3 | 2.0 | 35.5 | 2.1 | 2420 |
| 120 | 37/2.03 | 14.21 | 4.5 | 1.2 | 30.9 | 0.4 | 2.1 | 37.8 | 2.3 | 2850 |
| 150 | 37/2.25 | 15.75 | 4.5 | 1.2 | 32.5 | 0.4 | 2.2 | 39.5 | 2.4 | 3250 |
| 185 | 37/2.52 | 17.64 | 4.5 | 1.2 | 34.7 | 0.4 | 2.3 | 41.8 | 2.5 | 4560 |
| 240 | 61/2.25 | 20.25 | 4.5 | 1.2 | 37.4 | 0.4 | 2.4 | 44.7 | 2.7 | 4690 |
| 300 | 61/2.52 | 22.68 | 4.5 | 1.4 | 40.1 | 0.4 | 2.5 | 47.8 | 2.9 | 5430 |

Table 8 : 8.7/15KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 25 | 7/2.14 | 6.42 | 4.5 | 1.4 | 47.7 | 0.4 | 2.8 | 56.0 | 3.4 | 3970 |
| 35 | 7/2.52 | 7.56 | 4.5 | 1.6 | 50.8 | 0.4 | 2.9 | 59.5 | 3.6 | 4570 |
| 50 | 19/1.78 | 8.9 | 4.5 | 1.6 | 53.5 | 0.4 | 3.0 | 62.4 | 3.7 | 5250 |
| 70 | 19/2.14 | 10.7 | 4.5 | 1.6 | 57.4 | 0.4 | 3.2 | 66.5 | 4.0 | 6150 |
| 95 | 19/2.52 | 12.6 | 4.5 | 1.6 | 61.7 | 0.4 | 3.4 | 71.3 | 4.3 | 7350 |
| 120 | 37/2.03 | 14.21 | 4.5 | 1.8 | 65.6 | 0.4 | 3.5 | 75.5 | 4.5 | 8500 |

Table 9 : 8.7/15KV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 25 | 7/2.14 | 6.42 | 4.5 | 1.4 | 46.5 | 0.4 | 2.7 | 54.8 | 3.3 | 4220 |
| 35 | 7/2.52 | 7.56 | 4.5 | 1.6 | 49.9 | 0.4 | 2.9 | 58.5 | 3.5 | 4950 |
| 50 | 19/1.78 | 8.9 | 4.5 | 1.6 | 53.2 | 0.4 | 3.0 | 62.0 | 3.7 | 5640 |
| 70 | 19/2.14 | 10.7 | 4.5 | 1.6 | 57.5 | 0.4 | 3.2 | 66.8 | 4.0 | 6920 |
| 95 | 19/2.52 | 12.6 | 4.5 | 1.6 | 62.5 | 0.4 | 3.4 | 72.3 | 4.3 | 8450 |
| 120 | 37/2.03 | 14.21 | 4.5 | 1.8 | 66.8 | 0.4 | 3.6 | 76.9 | 4.6 | 9860 |
| 150 | 37/2.25 | 15.75 | 4.5 | 1.8 | 70.8 | 0.4 | 3.7 | 81.5 | 4.9 | 11350 |

Table 11 : 3.6/6KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.0 | 1.4 | 44.4 | 0.4 | 2.7 | 52.0 | 3.0 | 4070 |
| 35 | 7/2.52 | 7.56 | 3.0 | 1.4 | 47.4 | 0.4 | 2.8 | 55.0 | 3.1 | 4570 |
| 50 | 19/1.78 | 8.9 | 3.0 | 1.6 | 49.7 | 0.4 | 2.9 | 58.0 | 3.3 | 5300 |
| 70 | 19/2.14 | 10.7 | 3.0 | 1.6 | 53.4 | 0.4 | 3.0 | 62.0 | 3.5 | 6370 |
| 95 | 19/2.52 | 12.6 | 3.0 | 1.6 | 58.1 | 0.4 | 3.2 | 67.0 | 3.5 | 7730 |
| 120 | 37/2.03 | 14.21 | 3.0 | 1.6 | 62.2 | 0.4 | 3.4 | 71.0 | 3.7 | 9070 |
| 150 | 37/2.25 | 15.75 | 3.0 | 1.6 | 65.0 | 0.4 | 3.5 | 75.0 | 3.7 | 10400 |

Table 12 : 3.6/6KV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.0 | 1.4 | 44.4 | 0.4 | 2.7 | 52.9 | 3.0 | 5300 |
| 35 | 7/2.52 | 7.56 | 3.0 | 1.4 | 47.6 | 0.4 | 2.8 | 56.3 | 3.1 | 6000 |
| 50 | 19/1.78 | 8.9 | 3.0 | 1.6 | 50.6 | 0.4 | 2.9 | 59.0 | 3.3 | 6880 |
| 70 | 19/2.14 | 10.7 | 3.0 | 1.6 | 54.7 | 0.4 | 3.1 | 63.5 | 3.5 | 8280 |
| 95 | 19/2.52 | 12.6 | 3.0 | 1.6 | 60.0 | 0.4 | 3.3 | 69.5 | 3.5 | 9980 |
| 120 | 37/2.03 | 14.21 | 3.0 | 1.8 | 64.9 | 0.4 | 3.5 | 75.0 | 3.7 | 11700 |
| 150 | 37/2.25 | 15.75 | 3.0 | 1.8 | 68.1 | 0.4 | 3.6 | 78.0 | 3.7 | 13400 |

Table 13 : 6/10KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.4 | 1.0 | 22.4 | 0.3 | 1.8 | 28.5 | 1.7 | 1250 |
| 35 | 7/2.52 | 7.56 | 3.4 | 1.0 | 23.7 | 0.3 | 1.8 | 29.8 | 1.8 | 1450 |
| 50 | 19/1.78 | 8.9 | 3.4 | 1.0 | 24.6 | 0.3 | 1.9 | 30.8 | 1.8 | 1700 |
| 70 | 19/2.14 | 10.7 | 3.4 | 1.0 | 26.3 | 0.3 | 1.9 | 32.7 | 1.9 | 1910 |
| 95 | 19/2.52 | 12.6 | 3.4 | 1.2 | 28.9 | 0.3 | 2.0 | 35.5 | 2.1 | 2330 |
| 120 | 37/2.03 | 14.21 | 3.4 | 1.2 | 30.8 | 0.4 | 2.1 | 38.2 | 2.3 | 2810 |
| 150 | 37/2.25 | 15.75 | 3.4 | 1.2 | 31.9 | 0.4 | 2.2 | 39.5 | 2.3 | 3150 |
| 185 | 37/2.52 | 17.64 | 3.4 | 1.2 | 34.3 | 0.4 | 2.3 | 42.0 | 2.5 | 3700 |
| 240 | 61/2.25 | 20.25 | 3.4 | 1.2 | 37.3 | 0.4 | 2.4 | 45.0 | 2.7 | 4420 |
| 300 | 61/2.52 | 22.68 | 3.4 | 1.2 | 39.5 | 0.4 | 2.5 | 47.5 | 2.8 | 5200 |

Table 14 : 6/10KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.4 | 1.4 | 46.3 | 0.4 | 2.8 | 54.8 | 3.3 | 4580 |
| 35 | 7/2.52 | 7.56 | 3.4 | 1.6 | 48.5 | 0.4 | 2.8 | 57.7 | 3.5 | 5240 |
| 50 | 19/1.78 | 8.9 | 3.4 | 1.6 | 51.7 | 0.4 | 3.0 | 60.7 | 3.5 | 5950 |
| 70 | 19/2.14 | 10.7 | 3.4 | 1.6 | 55.4 | 0.4 | 3.1 | 64.8 | 3.6 | 7050 |
| 95 | 19/2.52 | 12.6 | 3.4 | 1.6 | 60.2 | 0.4 | 3.3 | 70.0 | 3.8 | 8460 |
| 120 | 37/2.03 | 14.21 | 3.4 | 1.6 | 64.5 | 0.4 | 3.5 | 75.0 | 3.9 | 9980 |

Table 15 : 6/10kV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 3.4 | 1.4 | 46.6 | 0.4 | 2.8 | 55.2 | 3.3 | 5810 |
| 35 | 7/2.52 | 7.56 | 3.4 | 1.6 | 50.0 | 0.4 | 2.9 | 59.0 | 3.4 | 6620 |
| 50 | 19/1.78 | 8.9 | 3.4 | 1.6 | 52.3 | 0.4 | 3.0 | 61.5 | 3.5 | 7580 |
| 70 | 19/2.14 | 10.7 | 3.4 | 1.6 | 56.5 | 0.4 | 3.2 | 66.0 | 3.8 | 9010 |
| 95 | 19/2.52 | 12.6 | 3.4 | 1.6 | 62.0 | 0.4 | 3.4 | 72.0 | 3.9 | 11500 |
| 120 | 37/2.03 | 14.21 | 3.4 | 1.8 | 66.7 | 0.4 | 3.6 | 77.0 | 4.0 | 12600 |
| 150 | 37/2.25 | 15.75 | 3.4 | 1.8 | 70.0 | 0.4 | 3.7 | 80.5 | 4.0 | 14400 |

Table 16 : 8.7/15KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 35 | 7/2.52 | 7.56 | 4.5 | 1.0 | 24.7 | 0.3 | 1.9 | 30.7 | 1.8 | 1560 |
| 50 | 19/1.78 | 8.9 | 4.5 | 1.0 | 26.0 | 0.3 | 1.9 | 32.2 | 1.9 | 1730 |
| 70 | 19/2.14 | 10.7 | 4.5 | 1.2 | 28.2 | 0.3 | 2.0 | 34.6 | 2.1 | 2050 |
| 95 | 19/2.52 | 12.6 | 4.5 | 1.2 | 30.1 | 0.4 | 2.1 | 37.2 | 2.2 | 2520 |
| 120 | 37/2.03 | 14.21 | 4.5 | 1.2 | 31.7 | 0.4 | 2.2 | 38.9 | 2.3 | 3000 |
| 150 | 37/2.25 | 15.75 | 4.5 | 1.2 | 33.3 | 0.4 | 2.2 | 40.6 | 2.4 | 3400 |
| 185 | 37/2.52 | 17.64 | 4.5 | 1.2 | 35.2 | 0.4 | 2.3 | 42.7 | 2.6 | 4890 |
| 240 | 61/2.25 | 20.25 | 4.5 | 1.4 | 38.2 | 0.4 | 2.4 | 45.9 | 2.8 | 4760 |
| 300 | 61/2.52 | 22.68 | 4.5 | 1.4 | 40.6 | 0.4 | 2.5 | 48.6 | 2.9 | 5680 |

Table 17 : 8.7/15KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 4.5 | 1.6 | 50.0 | 0.4 | 2.9 | 58.7 | 3.5 | 4120 |
| 35 | 7/2.52 | 7.56 | 4.5 | 1.6 | 52.4 | 0.4 | 3.0 | 61.4 | 3.7 | 4720 |
| 50 | 19/1.78 | 8.9 | 4.5 | 1.6 | 55.3 | 0.4 | 3.1 | 64.5 | 3.9 | 5550 |
| 70 | 19/2.14 | 10.7 | 4.5 | 1.6 | 59.2 | 0.4 | 3.3 | 68.7 | 4.1 | 6450 |
| 95 | 19/2.52 | 12.6 | 4.5 | 1.8 | 63.7 | 0.4 | 3.4 | 73.6 | 4.4 | 7800 |
| 120 | 37/2.03 | 14.21 | 4.5 | 1.8 | 67.1 | 0.4 | 3.6 | 77.3 | 4.6 | 8950 |

Table 18 : 8.7/15KV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 25 | 7/2.14 | 6.42 | 4.5 | 1.6 | 52.0 | 0.4 | 3.0 | 60.9 | 3.7 | 4370 |
| 35 | 7/2.52 | 7.56 | 4.5 | 1.6 | 54.4 | 0.4 | 3.1 | 63.5 | 3.8 | 5100 |
| 50 | 19/1.78 | 8.9 | 4.5 | 1.6 | 57.3 | 0.4 | 3.2 | 66.7 | 4.0 | 5940 |
| 70 | 19/2.14 | 10.7 | 4.5 | 1.6 | 61.2 | 0.4 | 3.3 | 70.9 | 4.3 | 7220 |
| 95 | 19/2.52 | 12.6 | 4.5 | 1.8 | 65.7 | 0.4 | 3.5 | 75.7 | 4.5 | 8900 |
| 120 | 37/2.03 | 14.21 | 4.5 | 1.8 | 69.1 | 0.4 | 3.7 | 79.5 | 4.8 | 10310 |
| 150 | 37/2.25 | 15.75 | 4.5 | 1.8 | 72.4 | 0.4 | 3.8 | 83.1 | 5.0 | 11800 |



RFOU · RFCU · RFOB · RFCB

NEK606 Type Cable



Voltage rating

- 0.6/1kV

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-353
- NEK 606
- IEC 60332-3 Cat.AF
- IEC 60754-1&2
- IEC 61034-2

Construction Details

- Conductor
IEC 60228 Class2
- Insulation
HF-EPR as per IEC 60092-351
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- RFOU, RFCU, RFOB, RFCB
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 19 : 0.6/1KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 5.7 | 0.2 | 1.1 | 9.8 | 0.5 | 182 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 6.1 | 0.2 | 1.1 | 10.2 | 0.5 | 203 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 6.7 | 0.2 | 1.1 | 10.8 | 0.5 | 235 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 7.3 | 0.2 | 1.2 | 11.5 | 0.6 | 270 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 8.2 | 0.2 | 1.2 | 12.5 | 0.6 | 337 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 9.2 | 0.2 | 1.2 | 13.6 | 0.7 | 423 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 11.0 | 0.3 | 1.3 | 16.0 | 0.8 | 661 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 12.1 | 0.3 | 1.4 | 17.3 | 0.9 | 796 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.0 | 13.9 | 0.3 | 1.4 | 19.3 | 1.0 | 993 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.0 | 16.2 | 0.3 | 1.5 | 21.7 | 1.1 | 1291 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.0 | 18.1 | 0.3 | 1.6 | 23.7 | 1.2 | 1616 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.0 | 19.8 | 0.3 | 1.7 | 25.6 | 1.3 | 1919 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.0 | 21.7 | 0.3 | 1.8 | 27.7 | 1.4 | 2274 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.0 | 24.0 | 0.3 | 1.9 | 30.2 | 1.5 | 2743 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.2 | 27.5 | 0.3 | 2.0 | 33.9 | 1.7 | 3481 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.2 | 30.3 | 0.4 | 2.1 | 37.5 | 1.9 | 4448 |
| 400 | 61/2.85 | 25.65 | 2.6 | 1.2 | 33.7 | 0.4 | 2.3 | 41.2 | 2.1 | 5050 |
| 500 | 61/3.2 | 28.80 | 2.8 | 1.2 | 37.3 | 0.4 | 2.4 | 45.1 | 2.3 | 5730 |
| 630 | 91/2.98 | 32.78 | 2.8 | 1.4 | 41.6 | 0.4 | 2.6 | 49.8 | 2.5 | 6620 |

Table 20 : 0.6/1KV, 2CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 9.7 | 0.2 | 1.3 | 14.1 | 0.7 | 332 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 10.5 | 0.3 | 1.3 | 15.5 | 0.8 | 460 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 11.6 | 0.3 | 1.4 | 16.8 | 0.8 | 541 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 12.8 | 0.3 | 1.4 | 18.0 | 0.9 | 634 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 14.6 | 0.3 | 1.5 | 20.0 | 1.0 | 803 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 16.7 | 0.3 | 1.6 | 22.3 | 1.1 | 1024 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 20.2 | 0.3 | 1.7 | 26.1 | 1.3 | 1410 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 22.5 | 0.3 | 1.8 | 28.5 | 1.4 | 1732 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.0 | 26.2 | 0.3 | 1.9 | 32.5 | 1.6 | 2223 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 31.0 | 0.4 | 2.2 | 38.3 | 1.9 | 3214 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.2 | 34.8 | 0.4 | 2.3 | 42.4 | 2.1 | 4034 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 38.6 | 0.4 | 2.5 | 46.5 | 2.3 | 4860 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.4 | 42.5 | 0.4 | 2.6 | 50.8 | 2.5 | 5784 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.4 | 47.1 | 0.4 | 2.8 | 55.8 | 2.8 | 6999 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 53.6 | 0.4 | 3.1 | 62.8 | 3.1 | 8872 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.6 | 59.3 | 0.4 | 3.3 | 69.0 | 3.4 | 10765 |

Table 21 : 0.6/1KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 10.2 | 0.3 | 1.3 | 15.2 | 0.8 | 444 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 11.1 | 0.3 | 1.3 | 16.2 | 0.8 | 511 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 12.3 | 0.3 | 1.4 | 17.5 | 0.9 | 610 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.9 | 0.9 | 723 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 15.6 | 0.3 | 1.5 | 21.0 | 1.1 | 936 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 17.8 | 0.3 | 1.6 | 23.5 | 1.2 | 1215 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 21.6 | 0.3 | 1.8 | 27.5 | 1.4 | 1699 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 24.0 | 0.3 | 1.9 | 30.2 | 1.5 | 2115 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 28.4 | 0.3 | 2.0 | 34.9 | 1.7 | 2775 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 33.1 | 0.4 | 2.2 | 40.6 | 2.0 | 3951 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.2 | 37.2 | 0.4 | 2.4 | 45.0 | 2.3 | 5018 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 41.2 | 0.4 | 2.6 | 49.4 | 2.5 | 6079 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.4 | 45.5 | 0.4 | 2.7 | 54.0 | 2.7 | 7272 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 50.8 | 0.4 | 2.9 | 59.8 | 3.0 | 8916 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 57.3 | 0.4 | 3.2 | 66.8 | 3.3 | 11277 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 63.9 | 0.4 | 3.5 | 73.9 | 3.7 | 13837 |

Table 22 : 0.6/1KV, 4CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 11.2 | 0.3 | 1.3 | 16.3 | 0.8 | 505 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 12.2 | 0.3 | 1.4 | 17.3 | 0.9 | 587 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.8 | 0.9 | 709 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 14.9 | 0.3 | 1.5 | 20.3 | 1.0 | 850 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 17.2 | 0.3 | 1.6 | 22.8 | 1.1 | 1116 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 19.7 | 0.3 | 1.7 | 25.5 | 1.3 | 1468 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 23.9 | 0.3 | 1.8 | 30.1 | 1.5 | 2077 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 26.6 | 0.3 | 2.0 | 33.0 | 1.7 | 2606 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 31.5 | 0.4 | 2.2 | 38.8 | 1.9 | 3646 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 36.8 | 0.4 | 2.4 | 44.6 | 2.2 | 4890 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 41.8 | 0.4 | 2.6 | 50.0 | 2.5 | 6313 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 45.9 | 0.4 | 2.7 | 54.4 | 2.7 | 7600 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 51.0 | 0.4 | 3.0 | 60.0 | 3.0 | 9191 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 56.6 | 0.4 | 3.2 | 66.0 | 3.3 | 11215 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.8 | 64.3 | 0.4 | 3.5 | 74.3 | 3.7 | 14325 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 71.1 | 0.4 | 3.8 | 81.8 | 4.1 | 17516 |

Table 23 : 0.6/1KV, 2+E CORE

| Conductor | | | Insulation thickness mm | Inner covering thickness mm | Diameter over inner covering mm | Wire for braid mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|-------------------------|------------------|------------|----------------------------|--------------------------------|------------------------------------|----------------------|------------------------|------------------------|---------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 10.2 | 0.3 | 1.3 | 15.2 | 0.8 | 444 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 11.1 | 0.3 | 1.3 | 16.2 | 0.8 | 511 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 12.3 | 0.3 | 1.4 | 17.5 | 0.9 | 610 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.9 | 0.9 | 723 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 15.6 | 0.3 | 1.5 | 21.0 | 1.1 | 936 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 17.8 | 0.3 | 1.6 | 23.5 | 1.2 | 1215 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 21.6 | 0.3 | 1.8 | 27.5 | 1.4 | 1637 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 24.0 | 0.3 | 1.9 | 30.2 | 1.5 | 2044 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 28.4 | 0.3 | 2.0 | 34.9 | 1.7 | 2624 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 33.1 | 0.4 | 2.2 | 40.6 | 2.0 | 3728 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.2 | 37.2 | 0.4 | 2.4 | 45.0 | 2.3 | 4683 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 41.2 | 0.4 | 2.6 | 49.4 | 2.5 | 5711 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.4 | 45.5 | 0.4 | 2.7 | 54.0 | 2.7 | 6910 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 50.8 | 0.4 | 2.9 | 59.8 | 3.0 | 8297 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 57.3 | 0.4 | 3.2 | 66.8 | 3.3 | 10433 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 63.9 | 0.4 | 3.5 | 73.9 | 3.7 | 12749 |

Table 24 : 0.6/1KV, 3+E CORE

| Conductor | | | Insulation thickness mm | Inner covering thickness mm | Diameter over inner covering mm | Wire for braid mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|-------------------------|------------------|------------|----------------------------|--------------------------------|------------------------------------|----------------------|------------------------|------------------------|---------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 11.2 | 0.3 | 1.3 | 16.3 | 0.8 | 493 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 12.2 | 0.3 | 1.4 | 17.3 | 0.9 | 568 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.8 | 0.9 | 679 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 14.9 | 0.3 | 1.5 | 20.3 | 1.0 | 806 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 17.2 | 0.3 | 1.6 | 22.8 | 1.1 | 1042 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 19.7 | 0.3 | 1.7 | 25.5 | 1.3 | 1351 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 22.9 | 0.3 | 1.8 | 29.0 | 1.4 | 1747 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 26.0 | 0.3 | 1.9 | 32.4 | 1.6 | 2222 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 29.8 | 0.3 | 2.1 | 36.4 | 1.8 | 2761 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 34.5 | 0.4 | 2.3 | 42.0 | 2.1 | 3882 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 39.4 | 0.4 | 2.5 | 47.4 | 2.4 | 4966 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 43.8 | 0.4 | 2.7 | 52.1 | 2.6 | 6063 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 48.9 | 0.4 | 2.9 | 57.7 | 2.9 | 7429 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 53.0 | 0.4 | 3.0 | 62.2 | 3.1 | 8659 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 59.5 | 0.4 | 3.3 | 69.2 | 3.5 | 10828 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 66.3 | 0.4 | 3.6 | 76.5 | 3.8 | 13222 |

Table 25 : 0.6/1KV, 4+E CORE

| Conductor | | | Insulation thickness mm | Inner covering thickness mm | Diameter over inner covering mm | Wire for braid mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|-------------------------|------------------|------------|----------------------------|--------------------------------|------------------------------------|----------------------|------------------------|------------------------|---------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 12.3 | 0.3 | 1.4 | 17.5 | 0.9 | 555 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 13.4 | 0.3 | 1.4 | 18.7 | 0.9 | 640 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 15.0 | 0.3 | 1.5 | 20.4 | 1.0 | 766 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 16.5 | 0.3 | 1.6 | 22.1 | 1.1 | 909 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 19.0 | 0.3 | 1.7 | 24.8 | 1.2 | 1173 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 21.9 | 0.3 | 1.8 | 27.9 | 1.4 | 1519 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 25.6 | 0.3 | 1.9 | 31.9 | 1.6 | 1981 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.2 | 29.4 | 0.3 | 2.1 | 36.1 | 1.8 | 2548 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 33.4 | 0.4 | 2.2 | 40.9 | 2.0 | 3371 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.4 | 39.2 | 0.4 | 2.5 | 47.2 | 2.4 | 4479 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 44.3 | 0.4 | 2.7 | 52.7 | 2.6 | 5643 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.6 | 49.5 | 0.4 | 2.9 | 58.4 | 2.9 | 6934 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 54.8 | 0.4 | 3.1 | 64.1 | 3.2 | 8400 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 59.8 | 0.4 | 3.3 | 69.5 | 3.5 | 9843 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.8 | 67.7 | 0.4 | 3.6 | 78.0 | 3.9 | 12405 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 74.9 | 0.4 | 3.9 | 85.8 | 4.3 | 15041 |

Table 26 : 0.6/1KV, 1.5mm²

| No. of cores | Conductor | | | Insulation thickness mm | Inner covering thickness mm | Diameter over inner covering mm | Wire for braid mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|--------------|-------------------------|------------------|------------|----------------------------|--------------------------------|------------------------------------|----------------------|------------------------|------------------------|---------------------|-------------------------------|
| | Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 9.7 | 0.2 | 1.3 | 14.1 | 0.7 | 332 |
| 4 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 12.2 | 0.3 | 1.4 | 17.4 | 0.9 | 563 |
| 7 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 13.3 | 0.3 | 1.4 | 18.6 | 0.9 | 662 |
| 9 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 15.6 | 0.3 | 1.5 | 21.1 | 1.1 | 827 |
| 12 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 17.6 | 0.3 | 1.6 | 23.2 | 1.2 | 993 |
| 14 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 18.5 | 0.3 | 1.6 | 24.3 | 1.2 | 1085 |
| 19 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 20.7 | 0.3 | 1.7 | 26.6 | 1.3 | 1307 |
| 23 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 23.0 | 0.3 | 1.8 | 29.1 | 1.5 | 1539 |
| 27 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 25.0 | 0.3 | 1.9 | 31.2 | 1.6 | 1755 |
| 33 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 27.0 | 0.3 | 2.0 | 33.4 | 1.7 | 2011 |
| 37 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 28.5 | 0.3 | 2.0 | 35.0 | 1.8 | 2205 |
| 44 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 32.2 | 0.4 | 2.2 | 39.6 | 2.0 | 2885 |

Table 27 : 0.6/1KV, 2.5mm²

| No. of cores | Conductor | | | Insulation thickness mm | Inner covering thickness mm | Diameter over inner covering mm | Wire for braid mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|--------------|-------------------------|------------------|------------|----------------------------|--------------------------------|------------------------------------|----------------------|------------------------|------------------------|---------------------|-------------------------------|
| | Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 10.5 | 0.2 | 1.3 | 15.0 | 0.7 | 383 |
| 4 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 12.2 | 0.3 | 1.4 | 17.3 | 0.9 | 549 |
| 5 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 13.4 | 0.3 | 1.4 | 18.6 | 0.9 | 617 |
| 7 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 14.6 | 0.3 | 1.5 | 20.0 | 1.0 | 691 |
| 9 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 17.2 | 0.3 | 1.6 | 22.7 | 1.1 | 856 |
| 12 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 19.3 | 0.3 | 1.7 | 25.1 | 1.3 | 1010 |
| 19 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 22.8 | 0.3 | 1.8 | 28.9 | 1.4 | 1283 |
| 27 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 28.0 | 0.3 | 2.0 | 34.4 | 1.7 | 1742 |
| 33 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 30.2 | 0.4 | 2.1 | 37.4 | 1.9 | 2171 |
| 37 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 31.4 | 0.4 | 2.2 | 38.8 | 1.9 | 2306 |
| 44 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 35.6 | 0.4 | 2.3 | 43.2 | 2.2 | 2784 |



Halogen Free and Mud Resistant Cable



BFOU · BFCU · BFOB · BFCB

NEK606 Type Cable



Voltage rating

- 0.6/1kV

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-353
- NEK 606
- IEC60331
- IEC 60332-3 Cat.AF
- IEC 60754-1&2
- IEC 61034-2

Construction Details

- Conductor
IEC60228 Class 2
- Fire proof layer
Mica tape
- Insulation
HF-EPR as per IEC 60092-351
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- BFOU, BFCU, BFOB, BFCB
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 28 : 0.6/1KV, 1CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 6.3 | 0.2 | 1.1 | 10.4 | 0.5 | 198 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 6.7 | 0.2 | 1.1 | 10.9 | 0.5 | 219 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 7.2 | 0.2 | 1.2 | 11.5 | 0.6 | 250 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 7.8 | 0.2 | 1.2 | 12.1 | 0.6 | 285 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 8.7 | 0.2 | 1.2 | 13.1 | 0.7 | 352 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 9.8 | 0.3 | 1.3 | 14.8 | 0.7 | 521 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 11.5 | 0.3 | 1.4 | 16.6 | 0.8 | 681 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 12.7 | 0.3 | 1.4 | 17.9 | 0.9 | 816 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.0 | 14.4 | 0.3 | 1.5 | 19.8 | 1.0 | 1011 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.0 | 16.7 | 0.3 | 1.6 | 22.2 | 1.1 | 1309 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.0 | 18.6 | 0.3 | 1.6 | 24.3 | 1.2 | 1635 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.0 | 20.2 | 0.3 | 1.7 | 26.0 | 1.3 | 1935 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.0 | 22.1 | 0.3 | 1.8 | 28.1 | 1.4 | 2291 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.0 | 24.4 | 0.3 | 1.9 | 30.6 | 1.5 | 2759 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.2 | 27.9 | 0.3 | 2.0 | 34.3 | 1.7 | 3499 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.2 | 30.7 | 0.4 | 2.1 | 38.0 | 1.9 | 4469 |
| 400 | 61/2.85 | 25.65 | 2.6 | 1.2 | 34.1 | 0.4 | 2.3 | 41.7 | 2.1 | 5550 |
| 500 | 61/3.2 | 28.80 | 2.8 | 1.4 | 38.1 | 0.4 | 2.4 | 46.0 | 2.3 | 6230 |
| 630 | 91/2.98 | 32.78 | 2.8 | 1.4 | 42.1 | 0.4 | 2.6 | 50.3 | 2.5 | 7030 |

Table 29 : 0.6/1KV, 2CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 10.8 | 0.3 | 1.3 | 15.9 | 0.8 | 454 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 11.7 | 0.3 | 1.4 | 16.8 | 0.8 | 511 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 12.8 | 0.3 | 1.4 | 18.0 | 0.9 | 591 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 13.9 | 0.3 | 1.4 | 19.2 | 1.0 | 685 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 15.8 | 0.3 | 1.5 | 21.2 | 1.1 | 858 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 17.9 | 0.3 | 1.6 | 23.5 | 1.2 | 1083 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 21.3 | 0.3 | 1.7 | 27.3 | 1.4 | 1474 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 23.6 | 0.3 | 1.8 | 29.7 | 1.5 | 1800 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 27.5 | 0.3 | 2.0 | 34.0 | 1.7 | 2327 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 32.0 | 0.4 | 2.2 | 39.4 | 2.0 | 3292 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.2 | 35.8 | 0.4 | 2.3 | 43.5 | 2.2 | 4117 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 39.4 | 0.4 | 2.5 | 47.4 | 2.4 | 4935 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.4 | 43.3 | 0.4 | 2.6 | 51.6 | 2.6 | 5864 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 48.3 | 0.4 | 2.8 | 57.1 | 2.9 | 7149 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 54.4 | 0.4 | 3.1 | 63.7 | 3.2 | 8966 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.6 | 60.1 | 0.4 | 3.3 | 69.8 | 3.5 | 10866 |

Table 30 : 0.6/1KV, 3CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 11.5 | 0.3 | 1.4 | 16.6 | 0.8 | 495 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 12.4 | 0.3 | 1.4 | 17.6 | 0.9 | 563 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 13.5 | 0.3 | 1.4 | 18.8 | 0.9 | 661 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 14.8 | 0.3 | 1.5 | 20.2 | 1.0 | 776 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 16.8 | 0.3 | 1.6 | 22.3 | 1.1 | 991 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 19.0 | 0.3 | 1.7 | 24.8 | 1.2 | 1274 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 22.8 | 0.3 | 1.8 | 28.8 | 1.4 | 1763 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 25.2 | 0.3 | 1.9 | 31.5 | 1.6 | 2183 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 29.4 | 0.3 | 2.1 | 36.0 | 1.8 | 2839 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 34.2 | 0.4 | 2.3 | 41.7 | 2.1 | 4027 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 38.7 | 0.4 | 2.5 | 46.6 | 2.3 | 5154 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 42.1 | 0.4 | 2.6 | 50.3 | 2.5 | 6152 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.4 | 46.3 | 0.4 | 2.8 | 54.9 | 2.7 | 7349 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 51.7 | 0.4 | 3.0 | 60.7 | 3.0 | 9000 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 58.2 | 0.4 | 3.2 | 67.8 | 3.4 | 11367 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 64.7 | 0.4 | 3.5 | 74.9 | 3.7 | 13934 |

Table 31 : 0.6/1KV, 4CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|-----------------|---------|-------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size | Const. | Dia. | | | | | | | | |
| mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 12.6 | 0.3 | 1.4 | 17.8 | 0.9 | 563 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.9 | 0.9 | 646 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 14.9 | 0.3 | 1.5 | 20.3 | 1.0 | 767 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 16.3 | 0.3 | 1.5 | 21.8 | 1.1 | 910 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 18.5 | 0.3 | 1.6 | 24.2 | 1.2 | 1179 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 21.1 | 0.3 | 1.7 | 27.0 | 1.3 | 1535 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 25.2 | 0.3 | 1.9 | 31.5 | 1.6 | 2150 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.2 | 28.4 | 0.3 | 2.0 | 34.9 | 1.7 | 2724 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 32.6 | 0.4 | 2.2 | 40.1 | 2.0 | 3726 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.4 | 38.4 | 0.4 | 2.4 | 46.3 | 2.3 | 5032 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 43.0 | 0.4 | 2.6 | 51.3 | 2.6 | 6407 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 46.8 | 0.4 | 2.8 | 55.5 | 2.8 | 7684 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 52.0 | 0.4 | 3.0 | 61.0 | 3.1 | 9281 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 57.5 | 0.4 | 3.2 | 67.1 | 3.4 | 11311 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.8 | 65.2 | 0.4 | 3.5 | 75.4 | 3.8 | 14430 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 72.1 | 0.4 | 3.8 | 82.9 | 4.1 | 17628 |

Table 32 : 0.6/1KV, 2+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 11.5 | 0.3 | 1.4 | 16.6 | 0.8 | 495 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 12.4 | 0.3 | 1.4 | 17.6 | 0.9 | 563 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 13.5 | 0.3 | 1.4 | 18.8 | 0.9 | 661 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 14.8 | 0.3 | 1.5 | 20.2 | 1.0 | 776 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 16.8 | 0.3 | 1.6 | 22.3 | 1.1 | 991 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 19.0 | 0.3 | 1.7 | 24.8 | 1.2 | 1274 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 22.8 | 0.3 | 1.8 | 28.8 | 1.4 | 1703 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.0 | 25.2 | 0.3 | 1.9 | 31.5 | 1.6 | 2113 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 29.4 | 0.3 | 2.1 | 36.0 | 1.8 | 2690 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 34.2 | 0.4 | 2.3 | 41.7 | 2.1 | 3807 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 38.7 | 0.4 | 2.5 | 46.6 | 2.3 | 4824 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 42.1 | 0.4 | 2.6 | 50.3 | 2.5 | 5785 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.4 | 46.3 | 0.4 | 2.8 | 54.9 | 2.7 | 6988 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 51.7 | 0.4 | 3.0 | 60.7 | 3.0 | 8383 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 58.2 | 0.4 | 3.2 | 67.8 | 3.4 | 10530 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 64.7 | 0.4 | 3.5 | 74.9 | 3.7 | 12854 |

Table 33 : 0.6/1KV, 3+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 12.6 | 0.3 | 1.4 | 17.8 | 0.9 | 556 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.9 | 0.9 | 633 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 14.9 | 0.3 | 1.5 | 20.3 | 1.0 | 743 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 16.3 | 0.3 | 1.5 | 21.8 | 1.1 | 873 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 18.5 | 0.3 | 1.6 | 24.2 | 1.2 | 1113 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 21.1 | 0.3 | 1.7 | 27.0 | 1.3 | 1427 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.0 | 24.3 | 0.3 | 1.9 | 30.5 | 1.5 | 1830 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.2 | 27.8 | 0.3 | 2.0 | 34.3 | 1.7 | 2351 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 31.0 | 0.4 | 2.1 | 38.3 | 1.9 | 3059 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.2 | 35.7 | 0.4 | 2.3 | 43.3 | 2.2 | 3985 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 40.6 | 0.4 | 2.5 | 48.7 | 2.4 | 5074 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.4 | 44.8 | 0.4 | 2.7 | 53.3 | 2.7 | 6165 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 49.9 | 0.4 | 2.9 | 58.8 | 2.9 | 7539 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 54.1 | 0.4 | 3.1 | 63.3 | 3.2 | 8776 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.6 | 60.5 | 0.4 | 3.3 | 70.3 | 3.5 | 10949 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 67.2 | 0.4 | 3.6 | 77.6 | 3.9 | 13354 |

Table 34 : 0.6/1KV, 4+E CORE

| Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 13.9 | 0.3 | 1.4 | 19.2 | 1.0 | 632 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 15.0 | 0.3 | 1.5 | 20.5 | 1.0 | 721 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 16.5 | 0.3 | 1.6 | 22.0 | 1.1 | 846 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 18.0 | 0.3 | 1.6 | 23.7 | 1.2 | 992 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 20.6 | 0.3 | 1.7 | 26.4 | 1.3 | 1263 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.0 | 23.4 | 0.3 | 1.8 | 29.5 | 1.5 | 1616 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.2 | 27.5 | 0.3 | 2.0 | 34.0 | 1.7 | 2128 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.2 | 30.9 | 0.4 | 2.1 | 38.2 | 1.9 | 2876 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.2 | 34.8 | 0.4 | 2.3 | 42.4 | 2.1 | 3493 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.4 | 40.6 | 0.4 | 2.5 | 48.7 | 2.4 | 4616 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 45.6 | 0.4 | 2.7 | 54.1 | 2.7 | 5787 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.6 | 50.7 | 0.4 | 2.9 | 59.6 | 3.0 | 7069 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 56.0 | 0.4 | 3.1 | 65.3 | 3.3 | 8546 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.6 | 60.9 | 0.4 | 3.3 | 70.7 | 3.5 | 9998 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.8 | 68.8 | 0.4 | 3.7 | 79.2 | 4.0 | 12571 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.8 | 76.0 | 0.4 | 3.9 | 87.0 | 4.4 | 15221 |

Table 35 : 0.6/1KV, 1.5mm²

| No. of cores | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|--------------|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 10.8 | 0.3 | 1.3 | 15.9 | 0.8 | 454 |
| 4 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 12.6 | 0.3 | 1.4 | 17.8 | 0.9 | 563 |
| 5 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 13.9 | 0.3 | 1.4 | 19.2 | 1.0 | 637 |
| 7 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 15.1 | 0.3 | 1.5 | 20.5 | 1.0 | 734 |
| 9 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 17.8 | 0.3 | 1.6 | 23.4 | 1.2 | 924 |
| 12 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 20.0 | 0.3 | 1.7 | 25.9 | 1.3 | 1110 |
| 14 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 21.2 | 0.3 | 1.7 | 27.1 | 1.4 | 1210 |
| 19 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 23.7 | 0.3 | 1.8 | 29.8 | 1.5 | 1451 |
| 23 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.0 | 26.3 | 0.3 | 1.9 | 32.7 | 1.6 | 1713 |
| 27 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 29.0 | 0.3 | 2.1 | 35.6 | 1.8 | 1997 |
| 33 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 31.4 | 0.4 | 2.2 | 38.7 | 1.9 | 2491 |
| 37 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 32.6 | 0.4 | 2.2 | 40.1 | 2.0 | 2664 |
| 44 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 36.9 | 0.4 | 2.4 | 44.7 | 2.2 | 3226 |

Table 36 : 0.6/1KV, 2.5mm²

| No. of cores | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|--------------|----------------------|---------------|---------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size mm ² | Const. No./mm | Dia. mm | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 11.7 | 0.3 | 1.4 | 16.8 | 0.8 | 511 |
| 4 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 13.6 | 0.3 | 1.4 | 18.9 | 0.9 | 646 |
| 5 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 15.0 | 0.3 | 1.5 | 20.4 | 1.0 | 729 |
| 7 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 16.4 | 0.3 | 1.5 | 21.9 | 1.1 | 860 |
| 9 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 19.3 | 0.3 | 1.7 | 25.1 | 1.3 | 1090 |
| 12 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 21.8 | 0.3 | 1.8 | 27.8 | 1.4 | 1321 |
| 14 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 23.0 | 0.3 | 1.8 | 29.1 | 1.5 | 1448 |
| 19 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 25.8 | 0.3 | 1.9 | 32.1 | 1.6 | 1755 |
| 23 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 29.1 | 0.3 | 2.1 | 35.7 | 1.8 | 2123 |
| 27 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 31.6 | 0.4 | 2.2 | 38.9 | 1.9 | 2645 |
| 33 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 34.2 | 0.4 | 2.3 | 41.7 | 2.1 | 3022 |
| 37 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 35.6 | 0.4 | 2.3 | 43.3 | 2.2 | 3245 |
| 44 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.4 | 40.7 | 0.4 | 2.5 | 48.8 | 2.4 | 3995 |





RFOU(c) · RFCU(c) · RFOB(c) · RFCB(c)

NEK606 Type Cable

Voltage rating

- 250V

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60332-3 Cat. AF
- IEC 60754-1&2
- IEC 61034-2

Construction Details

- Conductor
IEC 60228 Class 2
- Insulation
HF-EPR as per IEC 60092-351
- Collective screen
Copper or aluminum backed polyester tape with
tinned copper drain wire
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- RFOU(c), RFCU(c), RFOB(c), RFCB(c)
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 37 : 250V, 0.75mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 7.9 | 0.2 | 1.2 | 12.2 | 0.6 | 259 |
| 2P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 12.1 | 0.3 | 1.4 | 17.3 | 0.9 | 542 |
| 3P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 12.8 | 0.3 | 1.4 | 18.1 | 0.9 | 595 |
| 4P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 14.1 | 0.3 | 1.5 | 19.4 | 1.0 | 679 |
| 5P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 15.7 | 0.3 | 1.5 | 21.2 | 1.1 | 796 |
| 7P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.3 | 0.3 | 1.5 | 21.8 | 1.1 | 856 |
| 8P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 18.0 | 0.3 | 1.6 | 23.6 | 1.2 | 970 |
| 10P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 20.5 | 0.3 | 1.7 | 26.3 | 1.3 | 1191 |
| 12P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 21.3 | 0.3 | 1.7 | 27.3 | 1.4 | 1281 |
| 16P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 24.1 | 0.3 | 1.9 | 30.3 | 1.5 | 1559 |
| 20P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 25.2 | 0.3 | 1.9 | 31.5 | 1.6 | 1705 |
| 24P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 29.2 | 0.3 | 2.1 | 35.9 | 1.8 | 2134 |
| 32P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 31.8 | 0.4 | 2.2 | 39.1 | 2.0 | 2703 |
| 1T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 8.3 | 0.2 | 1.2 | 12.6 | 0.6 | 282 |
| 2T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 14.0 | 0.3 | 1.4 | 19.3 | 1.0 | 661 |
| 4T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.3 | 0.3 | 1.5 | 21.9 | 1.1 | 847 |
| 8T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 21.6 | 0.3 | 1.8 | 27.5 | 1.4 | 1300 |
| 12T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 26.4 | 0.3 | 1.9 | 32.8 | 1.6 | 1791 |
| 16T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 30.0 | 0.4 | 2.1 | 37.2 | 1.9 | 2418 |
| 24T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 38.0 | 0.4 | 2.4 | 45.9 | 2.3 | 3502 |
| 32T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 42.0 | 0.4 | 2.6 | 50.3 | 2.5 | 4188 |

Table 38 : 250V, 1mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 8.3 | 0.2 | 1.2 | 12.6 | 0.6 | 277 |
| 2P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 12.7 | 0.3 | 1.4 | 18.0 | 0.9 | 585 |
| 3P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 13.5 | 0.3 | 1.4 | 18.8 | 0.9 | 646 |
| 4P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 14.8 | 0.3 | 1.5 | 20.2 | 1.0 | 741 |
| 5P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 16.6 | 0.3 | 1.6 | 22.1 | 1.1 | 872 |
| 7P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.2 | 0.3 | 1.6 | 22.8 | 1.1 | 944 |
| 8P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 19.0 | 0.3 | 1.7 | 24.7 | 1.2 | 1070 |
| 10P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 21.6 | 0.3 | 1.8 | 27.6 | 1.4 | 1322 |
| 12P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 22.5 | 0.3 | 1.8 | 28.6 | 1.4 | 1426 |
| 16P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 25.5 | 0.3 | 1.9 | 31.8 | 1.6 | 1745 |
| 20P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 26.7 | 0.3 | 2.0 | 33.1 | 1.7 | 1917 |
| 24P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 31.0 | 0.4 | 2.1 | 38.2 | 1.9 | 2613 |
| 32P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 33.6 | 0.4 | 2.3 | 41.1 | 2.1 | 3044 |
| 1T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 8.7 | 0.2 | 1.2 | 13.1 | 0.7 | 303 |
| 2T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 14.7 | 0.3 | 1.5 | 20.1 | 1.0 | 717 |
| 4T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.2 | 0.3 | 1.6 | 22.8 | 1.1 | 930 |
| 8T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 22.8 | 0.3 | 1.8 | 28.8 | 1.4 | 1446 |
| 12T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 28.4 | 0.3 | 2.0 | 34.9 | 1.7 | 2046 |
| 16T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 31.8 | 0.4 | 2.2 | 39.1 | 2.0 | 2702 |
| 24T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 40.2 | 0.4 | 2.5 | 48.3 | 2.4 | 3933 |
| 32T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 44.5 | 0.4 | 2.7 | 52.9 | 2.6 | 4726 |

Table 39 : 250V, 1.5mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 8.9 | 0.2 | 1.2 | 13.2 | 0.7 | 311 |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 13.8 | 0.3 | 1.4 | 19.1 | 1.0 | 664 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 14.6 | 0.3 | 1.5 | 20.0 | 1.0 | 740 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 16.1 | 0.3 | 1.5 | 21.6 | 1.1 | 855 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.0 | 0.3 | 1.6 | 23.7 | 1.2 | 1013 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.7 | 0.3 | 1.6 | 24.4 | 1.2 | 1107 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 20.7 | 0.3 | 1.7 | 26.5 | 1.3 | 1254 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 23.6 | 0.3 | 1.8 | 29.7 | 1.5 | 1564 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 24.6 | 0.3 | 1.9 | 30.8 | 1.5 | 1696 |
| 16P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 28.2 | 0.3 | 2.0 | 34.8 | 1.7 | 2131 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 29.6 | 0.3 | 2.1 | 36.2 | 1.8 | 2355 |
| 24P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 33.8 | 0.4 | 2.3 | 41.3 | 2.1 | 3127 |
| 32P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 36.8 | 0.4 | 2.4 | 44.5 | 2.2 | 3674 |
| 1T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 9.4 | 0.2 | 1.2 | 13.8 | 0.7 | 341 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 15.9 | 0.3 | 1.5 | 21.4 | 1.1 | 819 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.7 | 0.3 | 1.6 | 24.4 | 1.2 | 1081 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 24.8 | 0.3 | 1.9 | 31.0 | 1.6 | 1713 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 30.9 | 0.4 | 2.1 | 38.2 | 1.9 | 2653 |
| 16T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 34.6 | 0.4 | 2.3 | 42.2 | 2.1 | 3224 |
| 24T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 43.9 | 0.4 | 2.7 | 52.2 | 2.6 | 4724 |
| 32T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 49.0 | 0.4 | 2.9 | 57.8 | 2.9 | 5785 |



BFOU(c) · BFCU(c) · BFOB(c) · BFCB(c)

NEK606 Type Cable

Voltage rating

- 250V

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60331
- IEC 60332-3 Cat. AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC 60228 Class 2
- Fire proof layer
Mica tape
- Insulation
HF-EPR as per IEC 60092-351
- Collective screen
Copper or aluminum backed polyester tape with tinned copper drain wire
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- BFOU(c), BFCU(c), BFOB(c), BFCB(c)
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 40 : 250V, 0.75mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 9.0 | 0.2 | 1.2 | 13.4 | 0.7 | 302 |
| 2P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 14.1 | 0.3 | 1.5 | 19.4 | 1.0 | 657 |
| 3P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 14.9 | 0.3 | 1.5 | 20.3 | 1.0 | 723 |
| 4P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.4 | 0.3 | 1.5 | 22.0 | 1.1 | 832 |
| 5P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 18.5 | 0.3 | 1.6 | 24.2 | 1.2 | 985 |
| 7P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.1 | 0.3 | 1.7 | 24.9 | 1.2 | 1060 |
| 8P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 21.2 | 0.3 | 1.7 | 27.1 | 1.4 | 1214 |
| 10P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 24.2 | 0.3 | 1.9 | 30.4 | 1.5 | 1503 |
| 12P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 25.2 | 0.3 | 1.9 | 31.5 | 1.6 | 1617 |
| 16P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 29.0 | 0.3 | 2.1 | 35.6 | 1.8 | 2025 |
| 20P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 30.4 | 0.4 | 2.1 | 37.6 | 1.9 | 2419 |
| 24P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 34.8 | 0.4 | 2.3 | 42.4 | 2.1 | 2972 |
| 32P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 38.2 | 0.4 | 2.4 | 46.1 | 2.3 | 3504 |
| 1T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 9.6 | 0.2 | 1.3 | 14.0 | 0.7 | 335 |
| 2T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.4 | 0.3 | 1.5 | 21.9 | 1.1 | 816 |
| 4T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.3 | 0.3 | 1.7 | 25.0 | 1.3 | 1055 |
| 8T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 25.6 | 0.3 | 1.9 | 31.9 | 1.6 | 1648 |
| 12T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 31.9 | 0.4 | 2.2 | 39.2 | 2.0 | 2559 |
| 16T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 35.7 | 0.4 | 2.3 | 43.4 | 2.2 | 3088 |
| 24T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 45.2 | 0.4 | 2.7 | 53.7 | 2.7 | 4524 |
| 32T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.6 | 50.5 | 0.4 | 2.9 | 59.5 | 3.0 | 5495 |

Table 41 : 250V, 1mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 9.4 | 0.2 | 1.2 | 13.7 | 0.7 | 322 |
| 2P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 14.0 | 0.3 | 1.4 | 19.3 | 1.0 | 659 |
| 3P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 15.6 | 0.3 | 1.5 | 21.1 | 1.1 | 780 |
| 4P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.2 | 0.3 | 1.6 | 22.8 | 1.1 | 901 |
| 5P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 19.3 | 0.3 | 1.7 | 25.1 | 1.3 | 1070 |
| 7P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.0 | 0.3 | 1.7 | 25.9 | 1.3 | 1158 |
| 8P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 22.2 | 0.3 | 1.8 | 28.2 | 1.4 | 1325 |
| 10P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 25.4 | 0.3 | 1.9 | 31.7 | 1.6 | 1650 |
| 12P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 26.4 | 0.3 | 1.9 | 32.8 | 1.6 | 1781 |
| 16P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 30.4 | 0.4 | 2.1 | 37.7 | 1.9 | 2444 |
| 20P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 31.8 | 0.4 | 2.2 | 39.2 | 2.0 | 2670 |
| 24P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 36.5 | 0.4 | 2.4 | 44.2 | 2.2 | 3286 |
| 32P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 40.1 | 0.4 | 2.5 | 48.1 | 2.4 | 3891 |
| 1T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 10.0 | 0.3 | 1.3 | 15.0 | 0.7 | 432 |
| 2T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.1 | 0.3 | 1.6 | 22.7 | 1.1 | 878 |
| 4T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.1 | 0.3 | 1.7 | 26.0 | 1.3 | 1148 |
| 8T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 26.8 | 0.3 | 2.0 | 33.2 | 1.7 | 1812 |
| 12T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 33.4 | 0.4 | 2.2 | 40.9 | 2.0 | 2813 |
| 16T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 37.4 | 0.4 | 2.4 | 45.3 | 2.3 | 3409 |
| 24T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 47.4 | 0.4 | 2.8 | 56.1 | 2.8 | 5013 |
| 32T | 1 | 7/0.43 | 1.29 | 0.8 | 1.6 | 53.0 | 0.4 | 3.0 | 62.2 | 3.1 | 6110 |

Table 42 : 250V, 1.5mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 1P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 10.0 | 0.3 | 1.3 | 14.9 | 0.7 | 432 |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 15.0 | 0.3 | 1.5 | 20.4 | 1.0 | 743 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 16.7 | 0.3 | 1.6 | 22.3 | 1.1 | 882 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.4 | 0.3 | 1.6 | 24.1 | 1.2 | 1026 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 20.8 | 0.3 | 1.7 | 26.7 | 1.3 | 1225 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 21.5 | 0.3 | 1.8 | 27.5 | 1.4 | 1337 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 23.9 | 0.3 | 1.8 | 30.0 | 1.5 | 1528 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 27.7 | 0.3 | 2.0 | 34.2 | 1.7 | 1958 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 28.9 | 0.3 | 2.0 | 35.5 | 1.8 | 2122 |
| 16P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 32.8 | 0.4 | 2.2 | 40.2 | 2.0 | 2846 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 34.3 | 0.4 | 2.3 | 41.9 | 2.1 | 3130 |
| 24P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 39.7 | 0.4 | 2.5 | 47.7 | 2.4 | 3916 |
| 32P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 43.2 | 0.4 | 2.6 | 51.5 | 2.6 | 4599 |
| 1T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 10.6 | 0.3 | 1.3 | 15.7 | 0.8 | 478 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.3 | 0.3 | 1.6 | 24.0 | 1.2 | 990 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 21.6 | 0.3 | 1.8 | 27.6 | 1.4 | 1315 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 29.2 | 0.3 | 2.1 | 35.8 | 1.8 | 2151 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 35.9 | 0.4 | 2.3 | 43.6 | 2.2 | 3273 |
| 16T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 40.7 | 0.4 | 2.5 | 48.8 | 2.4 | 4049 |
| 24T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 51.5 | 0.4 | 3.0 | 60.5 | 3.0 | 5970 |
| 32T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 57.1 | 0.4 | 3.2 | 66.6 | 3.3 | 7231 |



RFOU(i) · RFCU(i) · RFOB(i) · RFCB(i)

NEK606 Type Cable



Voltage rating

- 250V

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60332-3 Cat. AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC 60228 Class 2
- Insulation
HF-EPR as per IEC 60092-351
- Individual screen
Copper or aluminum backed polyester tape with tinned copper drain wire
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- RFOU(i), RFCU(i), RFOB(i), RFCB(i)
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 43 : 250V, 0.75mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 12.9 | 0.3 | 1.4 | 18.1 | 0.9 | 596 |
| 3P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 13.7 | 0.3 | 1.4 | 19.0 | 1.0 | 668 |
| 4P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 15.1 | 0.3 | 1.5 | 20.5 | 1.0 | 776 |
| 5P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.6 | 0.3 | 1.6 | 22.2 | 1.1 | 901 |
| 7P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.1 | 0.3 | 1.7 | 24.9 | 1.2 | 1128 |
| 8P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.9 | 0.3 | 1.7 | 25.7 | 1.3 | 1187 |
| 10P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 22.4 | 0.3 | 1.8 | 28.4 | 1.4 | 1465 |
| 12P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 23.1 | 0.3 | 1.8 | 29.2 | 1.5 | 1583 |
| 16P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 25.9 | 0.3 | 1.9 | 32.2 | 1.6 | 1944 |
| 20P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 29.3 | 0.3 | 2.1 | 35.9 | 1.8 | 2399 |
| 24P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 32.8 | 0.4 | 2.2 | 40.3 | 2.0 | 3125 |
| 32P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 36.4 | 0.4 | 2.4 | 44.1 | 2.2 | 3821 |
| 2T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 14.3 | 0.3 | 1.5 | 19.6 | 1.0 | 695 |
| 4T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.7 | 0.3 | 1.6 | 22.3 | 1.1 | 920 |
| 8T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 22.2 | 0.3 | 1.8 | 28.2 | 1.4 | 1472 |
| 12T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 27.6 | 0.3 | 2.0 | 34.1 | 1.7 | 2126 |
| 16T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 30.9 | 0.4 | 2.1 | 38.2 | 1.9 | 2843 |
| 24T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 39.2 | 0.4 | 2.5 | 47.1 | 2.4 | 4248 |
| 32T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 43.4 | 0.4 | 2.6 | 51.7 | 2.6 | 5240 |

Table 44 : 250V, 1mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 13.5 | 0.3 | 1.4 | 18.8 | 0.9 | 642 |
| 3P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 14.4 | 0.3 | 1.5 | 19.8 | 1.0 | 722 |
| 4P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 15.9 | 0.3 | 1.5 | 21.3 | 1.1 | 842 |
| 5P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.5 | 0.3 | 1.6 | 23.1 | 1.2 | 982 |
| 7P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.1 | 0.3 | 1.7 | 26.0 | 1.3 | 1235 |
| 8P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.9 | 0.3 | 1.7 | 26.9 | 1.3 | 1299 |
| 10P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 23.6 | 0.3 | 1.8 | 29.7 | 1.5 | 1610 |
| 12P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 24.4 | 0.3 | 1.9 | 30.6 | 1.5 | 1743 |
| 16P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 27.8 | 0.3 | 2.0 | 34.2 | 1.7 | 2188 |
| 20P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 31.0 | 0.4 | 2.1 | 38.2 | 1.9 | 2864 |
| 24P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 34.7 | 0.4 | 2.3 | 42.3 | 2.1 | 3449 |
| 32P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 38.8 | 0.4 | 2.5 | 46.8 | 2.3 | 4283 |
| 2T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 15.0 | 0.3 | 1.5 | 20.4 | 1.0 | 749 |
| 4T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.6 | 0.3 | 1.6 | 23.3 | 1.2 | 995 |
| 8T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 23.4 | 0.3 | 1.8 | 29.5 | 1.5 | 1596 |
| 12T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 29.2 | 0.3 | 2.1 | 35.7 | 1.8 | 2299 |
| 16T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 32.7 | 0.4 | 2.2 | 40.1 | 2.0 | 3062 |
| 24T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 41.4 | 0.4 | 2.6 | 49.5 | 2.5 | 4553 |
| 32T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 45.8 | 0.4 | 2.7 | 54.4 | 2.7 | 5590 |

Table 45 : 250V, 1.5mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 14.6 | 0.3 | 1.5 | 20.0 | 1.0 | 724 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 15.6 | 0.3 | 1.5 | 21.0 | 1.1 | 820 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 17.2 | 0.3 | 1.6 | 22.8 | 1.1 | 962 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 19.0 | 0.3 | 1.6 | 24.7 | 1.2 | 1126 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 21.8 | 0.3 | 1.8 | 27.8 | 1.4 | 1427 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 22.7 | 0.3 | 1.8 | 28.8 | 1.4 | 1501 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 25.6 | 0.3 | 1.9 | 31.9 | 1.6 | 1873 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 26.5 | 0.3 | 2.0 | 32.9 | 1.6 | 2035 |
| 16P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 30.2 | 0.4 | 2.1 | 37.4 | 1.9 | 2768 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 33.7 | 0.4 | 2.3 | 41.2 | 2.1 | 3346 |
| 24P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 38.1 | 0.4 | 2.4 | 46.0 | 2.3 | 4093 |
| 32P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 42.3 | 0.4 | 2.6 | 50.5 | 2.5 | 5031 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 16.2 | 0.3 | 1.5 | 21.7 | 1.1 | 851 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 19.1 | 0.3 | 1.7 | 24.9 | 1.2 | 1149 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 25.4 | 0.3 | 1.9 | 31.7 | 1.6 | 1871 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 31.7 | 0.4 | 2.2 | 39.0 | 2.0 | 2925 |
| 16T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 35.5 | 0.4 | 2.3 | 43.2 | 2.2 | 3605 |
| 24T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 45.1 | 0.4 | 2.7 | 53.5 | 2.7 | 5385 |
| 32T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 50.4 | 0.4 | 2.9 | 59.3 | 3.0 | 6707 |



BFOU(i) · BFCU(i) · BFOB(i) · BFCB(i)

NEK606 Type Cable

Voltage rating

- 250V

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60331
- IEC 60332-3 Cat.AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC60228, Class 2
- Fire proof layer
Mica tape
- Insulation
HF-EPR as per IEC 60092-351
- Individual screen
Copper or aluminum backed polyester tape with
tinned copper drain wire
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- BFOU(i), BFCU(i), BFOB(i), BFCB(i)
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 46 : 250V, 0.75mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 15.0 | 0.3 | 1.5 | 20.4 | 1.0 | 727 |
| 3P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.0 | 0.3 | 1.5 | 21.5 | 1.1 | 815 |
| 4P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 17.6 | 0.3 | 1.6 | 23.3 | 1.2 | 951 |
| 5P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.5 | 0.3 | 1.7 | 25.3 | 1.3 | 1112 |
| 7P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 22.5 | 0.3 | 1.8 | 28.5 | 1.4 | 1402 |
| 8P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 23.4 | 0.3 | 1.8 | 29.5 | 1.5 | 1481 |
| 10P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 26.4 | 0.3 | 1.9 | 32.8 | 1.6 | 1834 |
| 12P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 27.7 | 0.3 | 2.0 | 34.2 | 1.7 | 2019 |
| 16P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 31.1 | 0.4 | 2.2 | 38.3 | 1.9 | 2693 |
| 20P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 35.1 | 0.4 | 2.3 | 42.7 | 2.1 | 3301 |
| 24P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 39.3 | 0.4 | 2.5 | 47.3 | 2.4 | 3985 |
| 32P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.6 | 43.9 | 0.4 | 2.7 | 52.3 | 2.6 | 4930 |
| 1T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 9.6 | 0.2 | 1.3 | 14.0 | 0.7 | 335 |
| 2T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.8 | 0.3 | 1.6 | 22.4 | 1.1 | 857 |
| 4T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.8 | 0.3 | 1.7 | 25.6 | 1.3 | 1133 |
| 8T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 26.3 | 0.3 | 1.9 | 32.6 | 1.6 | 1819 |
| 12T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 32.8 | 0.3 | 2.2 | 39.7 | 2.0 | 2628 |
| 16T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 36.7 | 0.4 | 2.4 | 44.5 | 2.2 | 3492 |
| 24T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 46.5 | 0.4 | 2.8 | 55.1 | 2.8 | 5218 |
| 32T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.6 | 52.0 | 0.4 | 3.0 | 61.1 | 3.1 | 6459 |

Table 47 : 250V, 1mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 15.7 | 0.3 | 1.5 | 21.1 | 1.1 | 777 |
| 3P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 16.7 | 0.3 | 1.6 | 22.3 | 1.1 | 875 |
| 4P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 18.4 | 0.3 | 1.6 | 24.1 | 1.2 | 1025 |
| 5P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.4 | 0.3 | 1.7 | 26.2 | 1.3 | 1201 |
| 7P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 23.5 | 0.3 | 1.8 | 29.6 | 1.5 | 1521 |
| 8P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 24.5 | 0.3 | 1.9 | 30.7 | 1.5 | 1606 |
| 10P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 28.0 | 0.3 | 2.0 | 34.5 | 1.7 | 2036 |
| 12P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 29.0 | 0.3 | 2.1 | 35.6 | 1.8 | 2200 |
| 16P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 32.5 | 0.4 | 2.2 | 39.9 | 2.0 | 2933 |
| 20P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 36.3 | 0.4 | 2.4 | 44.0 | 2.2 | 3547 |
| 24P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 41.1 | 0.4 | 2.6 | 49.2 | 2.5 | 4351 |
| 32P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 45.6 | 0.4 | 2.7 | 54.1 | 2.7 | 5330 |
| 2T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.4 | 0.3 | 1.6 | 23.0 | 1.2 | 912 |
| 4T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.5 | 0.3 | 1.7 | 26.4 | 1.3 | 1219 |
| 8T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 27.8 | 0.3 | 2.0 | 34.3 | 1.7 | 2017 |
| 12T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 34.2 | 0.4 | 2.3 | 41.7 | 2.1 | 3100 |
| 16T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 38.7 | 0.4 | 2.5 | 46.7 | 2.3 | 3866 |
| 24T | 1 | 7/0.43 | 1.29 | 0.8 | 1.6 | 49.0 | 0.4 | 2.9 | 57.8 | 2.9 | 5779 |
| 32T | 1 | 7/0.43 | 1.29 | 0.8 | 1.6 | 54.3 | 0.4 | 3.1 | 63.6 | 3.2 | 7089 |

Table 48 : 250V, 1.5mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 16.7 | 0.3 | 1.6 | 22.3 | 1.1 | 866 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 17.9 | 0.3 | 1.6 | 23.5 | 1.2 | 982 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 19.7 | 0.3 | 1.7 | 25.5 | 1.3 | 1156 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 21.8 | 0.3 | 1.8 | 27.8 | 1.4 | 1361 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 25.2 | 0.3 | 1.9 | 31.5 | 1.6 | 1733 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 26.3 | 0.3 | 1.9 | 32.6 | 1.6 | 1830 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 30.1 | 0.4 | 2.1 | 37.3 | 1.9 | 2536 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 31.1 | 0.4 | 2.2 | 38.4 | 1.9 | 2738 |
| 16P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 34.9 | 0.4 | 2.3 | 42.5 | 2.1 | 3364 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 39.4 | 0.4 | 2.5 | 47.4 | 2.4 | 4137 |
| 24P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 44.2 | 0.4 | 2.7 | 52.6 | 2.6 | 5011 |
| 32P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 49.4 | 0.4 | 2.9 | 58.2 | 2.9 | 6229 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.7 | 0.3 | 1.6 | 24.4 | 1.2 | 1025 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 22.0 | 0.3 | 1.8 | 28.0 | 1.4 | 1389 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 29.8 | 0.3 | 2.1 | 36.5 | 1.8 | 2325 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 36.7 | 0.4 | 2.4 | 44.5 | 2.2 | 3574 |
| 16T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 41.6 | 0.4 | 2.6 | 49.8 | 2.5 | 4474 |
| 24T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 52.7 | 0.4 | 3.0 | 61.8 | 3.1 | 6711 |
| 32T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 58.5 | 0.4 | 3.2 | 68.1 | 3.4 | 8267 |



RFOU(i/c) · RFCU(i/c) · RFOB(i/c) · RFCB(i/c)

NEK606 Type Cable



Voltage rating

- 250V

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60332-3 Cat.AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC60228, Class 2
- Insulation
HF-EPR as per IEC 60092-351
- Individual & collective screen
Copper or aluminum backed polyester tape with
tinned copper drain wire
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- RFOU(i/c), RFCU(i/c), RFOB(i/c), RFCB(i/c)
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 49 : 250V, 0.75mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 13.0 | 0.3 | 1.4 | 18.2 | 0.9 | 613 |
| 3P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 13.8 | 0.3 | 1.4 | 19.1 | 1.0 | 686 |
| 4P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 15.2 | 0.3 | 1.5 | 20.6 | 1.0 | 794 |
| 5P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.7 | 0.3 | 1.6 | 22.3 | 1.1 | 921 |
| 7P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.2 | 0.3 | 1.7 | 25.0 | 1.2 | 1150 |
| 8P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 20.0 | 0.3 | 1.7 | 25.8 | 1.3 | 1209 |
| 10P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 22.5 | 0.3 | 1.8 | 28.5 | 1.4 | 1488 |
| 12P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 23.2 | 0.3 | 1.8 | 29.3 | 1.5 | 1607 |
| 16P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 26.0 | 0.3 | 1.9 | 32.4 | 1.6 | 1970 |
| 20P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 29.5 | 0.3 | 2.1 | 36.1 | 1.8 | 2428 |
| 24P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 32.9 | 0.4 | 2.2 | 40.4 | 2.0 | 3156 |
| 32P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 36.5 | 0.4 | 2.4 | 44.3 | 2.2 | 3855 |
| 2T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 14.4 | 0.3 | 1.5 | 19.7 | 1.0 | 709 |
| 4T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.9 | 0.3 | 1.6 | 22.4 | 1.1 | 930 |
| 8T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 22.3 | 0.3 | 1.8 | 28.3 | 1.4 | 1468 |
| 12T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 27.7 | 0.3 | 2.0 | 34.2 | 1.7 | 2101 |
| 16T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 31.1 | 0.4 | 2.2 | 38.3 | 1.9 | 2795 |
| 24T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 39.3 | 0.4 | 2.5 | 47.3 | 2.4 | 4134 |
| 32T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 43.5 | 0.4 | 2.7 | 51.8 | 2.6 | 5055 |

Table 50 : 250V, 1mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 13.4 | 0.3 | 1.4 | 18.7 | 0.9 | 667 |
| 3P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 14.5 | 0.3 | 1.5 | 19.9 | 1.0 | 769 |
| 4P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 16.0 | 0.3 | 1.5 | 21.5 | 1.1 | 899 |
| 5P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.6 | 0.3 | 1.6 | 23.2 | 1.2 | 1049 |
| 7P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.2 | 0.3 | 1.7 | 26.1 | 1.3 | 1323 |
| 8P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 21.1 | 0.3 | 1.7 | 27.0 | 1.3 | 1388 |
| 10P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 23.7 | 0.3 | 1.8 | 29.8 | 1.5 | 1729 |
| 12P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 24.5 | 0.3 | 1.9 | 30.7 | 1.5 | 1883 |
| 16P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 27.9 | 0.3 | 2.0 | 34.4 | 1.7 | 2367 |
| 20P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 31.1 | 0.4 | 2.2 | 38.4 | 1.9 | 3085 |
| 24P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 34.8 | 0.4 | 2.3 | 42.4 | 2.1 | 3710 |
| 32P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 38.9 | 0.4 | 2.5 | 46.9 | 2.3 | 4623 |
| 2T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 15.1 | 0.3 | 1.5 | 20.5 | 1.0 | 767 |
| 4T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.7 | 0.3 | 1.6 | 23.4 | 1.2 | 1015 |
| 8T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 23.5 | 0.3 | 1.8 | 29.6 | 1.5 | 1620 |
| 12T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 29.3 | 0.3 | 2.1 | 35.9 | 1.8 | 2327 |
| 16T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 32.8 | 0.4 | 2.2 | 40.2 | 2.0 | 3093 |
| 24T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 41.5 | 0.4 | 2.6 | 49.7 | 2.5 | 4590 |
| 32T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 46.0 | 0.4 | 2.7 | 54.5 | 2.7 | 5629 |

Table 51 : 250V, 1.5mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 14.7 | 0.3 | 1.5 | 20.1 | 1.0 | 742 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 15.7 | 0.3 | 1.5 | 21.2 | 1.1 | 839 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 17.3 | 0.3 | 1.6 | 22.9 | 1.1 | 982 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 19.1 | 0.3 | 1.7 | 24.8 | 1.2 | 1148 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 22.0 | 0.3 | 1.8 | 27.9 | 1.4 | 1450 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 22.9 | 0.3 | 1.8 | 28.9 | 1.4 | 1525 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 25.7 | 0.3 | 1.9 | 32.1 | 1.6 | 1898 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 26.6 | 0.3 | 2.0 | 33.0 | 1.7 | 2061 |
| 16P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 30.3 | 0.4 | 2.1 | 37.5 | 1.9 | 2797 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 33.8 | 0.4 | 2.3 | 41.3 | 2.1 | 3378 |
| 24P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 38.2 | 0.4 | 2.4 | 46.1 | 2.3 | 4128 |
| 32P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 42.4 | 0.4 | 2.6 | 50.6 | 2.5 | 5069 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 16.3 | 0.3 | 1.5 | 21.9 | 1.1 | 871 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 19.1 | 0.3 | 1.7 | 24.9 | 1.2 | 1162 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 25.5 | 0.3 | 1.9 | 31.8 | 1.6 | 1896 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 31.7 | 0.4 | 2.2 | 39.0 | 2.0 | 2942 |
| 16T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 35.7 | 0.4 | 2.3 | 43.3 | 2.2 | 3638 |
| 24T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 45.2 | 0.4 | 2.7 | 53.6 | 2.7 | 5424 |
| 32T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 50.5 | 0.4 | 2.9 | 59.4 | 3.0 | 6750 |



BFOU(i/c) · BFCU(i/c) · BFOB(i/c) · BFCB(i/c)

NEK606 Type Cable



Voltage rating

- 250V

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60331
- IEC 60332-3 Cat.AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC60228, Class 2
- Fire proof layer
Mica tape
- Insulation
HF-EPR as per IEC 60092-351
- Individual & collective screen
Copper or aluminum backed polyester tape with
tinned copper drain wire
- Inner covering
Halogen-free compound
- Armor
Tinned copper wire braid
- Sheath
IEC 60092-359, SHF2

Cable Type

- BFOU(i/c), BFCU(i/c), BFOB(i/c), BFCB(i/c)
- CU, CB : with galvanized steel wire braid
- OB, CB : Mud Resistant type

Table 52 : 250V, 0.75mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 15.1 | 0.3 | 1.5 | 20.6 | 1.0 | 745 |
| 3P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.1 | 0.3 | 1.5 | 21.6 | 1.1 | 834 |
| 4P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 17.8 | 0.3 | 1.6 | 23.4 | 1.2 | 972 |
| 5P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.6 | 0.3 | 1.7 | 25.4 | 1.3 | 1133 |
| 7P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 22.6 | 0.3 | 1.8 | 28.6 | 1.4 | 1426 |
| 8P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 23.5 | 0.3 | 1.8 | 29.6 | 1.5 | 1505 |
| 10P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 26.5 | 0.3 | 2.0 | 32.9 | 1.6 | 1860 |
| 12P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 27.8 | 0.3 | 2.0 | 34.3 | 1.7 | 2046 |
| 16P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 31.2 | 0.4 | 2.2 | 38.5 | 1.9 | 2723 |
| 20P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 34.8 | 0.4 | 2.3 | 42.4 | 2.1 | 3283 |
| 24P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 39.4 | 0.4 | 2.5 | 47.4 | 2.4 | 4020 |
| 32P | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 43.6 | 0.4 | 2.7 | 52.0 | 2.6 | 4908 |
| 2T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 16.8 | 0.3 | 1.6 | 22.4 | 1.1 | 868 |
| 4T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 19.8 | 0.3 | 1.7 | 25.6 | 1.3 | 1146 |
| 8T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.0 | 26.3 | 0.3 | 1.9 | 32.6 | 1.6 | 1834 |
| 12T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 32.8 | 0.4 | 2.2 | 40.2 | 2.0 | 2867 |
| 16T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.2 | 36.7 | 0.4 | 2.4 | 44.5 | 2.2 | 3511 |
| 24T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.4 | 46.5 | 0.4 | 2.8 | 55.1 | 2.8 | 5239 |
| 32T | 0.75 | 7/0.37 | 1.11 | 0.8 | 1.6 | 52.0 | 0.4 | 3.0 | 61.1 | 3.1 | 6483 |

Table 53 : 250V, 1mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 15.8 | 0.3 | 1.5 | 21.3 | 1.1 | 796 |
| 3P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 16.8 | 0.3 | 1.6 | 22.4 | 1.1 | 895 |
| 4P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 18.5 | 0.3 | 1.6 | 24.2 | 1.2 | 1046 |
| 5P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.5 | 0.3 | 1.7 | 26.4 | 1.3 | 1223 |
| 7P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 23.6 | 0.3 | 1.8 | 29.8 | 1.5 | 1545 |
| 8P | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 24.6 | 0.3 | 1.9 | 30.8 | 1.5 | 1631 |
| 10P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 28.1 | 0.3 | 2.0 | 34.6 | 1.7 | 2063 |
| 12P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 29.1 | 0.3 | 2.1 | 35.7 | 1.8 | 2228 |
| 16P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 32.6 | 0.4 | 2.2 | 40.0 | 2.0 | 2963 |
| 20P | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 36.4 | 0.4 | 2.4 | 44.2 | 2.2 | 3580 |
| 24P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 41.2 | 0.4 | 2.6 | 49.4 | 2.5 | 4387 |
| 32P | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 45.7 | 0.4 | 2.7 | 54.2 | 2.7 | 5370 |
| 2T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 17.5 | 0.3 | 1.6 | 23.2 | 1.2 | 932 |
| 4T | 1 | 7/0.43 | 1.29 | 0.8 | 1.0 | 20.7 | 0.3 | 1.7 | 26.5 | 1.3 | 1241 |
| 8T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 27.9 | 0.3 | 2.0 | 34.4 | 1.7 | 2044 |
| 12T | 1 | 7/0.43 | 1.29 | 0.8 | 1.2 | 34.3 | 0.4 | 2.3 | 41.9 | 2.1 | 3131 |
| 16T | 1 | 7/0.43 | 1.29 | 0.8 | 1.4 | 38.9 | 0.4 | 2.5 | 46.8 | 2.3 | 3901 |
| 24T | 1 | 7/0.43 | 1.29 | 0.8 | 1.6 | 49.1 | 0.4 | 2.9 | 58.0 | 2.9 | 5820 |
| 32T | 1 | 7/0.43 | 1.29 | 0.8 | 1.6 | 54.5 | 0.4 | 3.1 | 63.7 | 3.2 | 7134 |

Table 54 : 250V, 1.5mm²

| No. of pairs/triads | Conductor | | | Insulation thickness | Inner covering thickness | Diameter over inner covering | Wire for braid | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|---------------------|-----------------|--------|------|----------------------|--------------------------|------------------------------|----------------|------------------|------------------|---------------|----------------------|
| | Size | Const. | Dia. | | | | | | | | |
| - | mm ² | No./mm | mm | mm | mm | mm | mm | mm | mm | mm | kg/km |
| 2P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 16.9 | 0.3 | 1.6 | 22.4 | 1.1 | 886 |
| 3P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.0 | 0.3 | 1.6 | 23.6 | 1.2 | 1002 |
| 4P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 19.8 | 0.3 | 1.7 | 25.7 | 1.3 | 1178 |
| 5P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 21.9 | 0.3 | 1.8 | 27.9 | 1.4 | 1384 |
| 7P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 25.3 | 0.3 | 1.9 | 31.6 | 1.6 | 1758 |
| 8P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 26.4 | 0.3 | 1.9 | 32.7 | 1.6 | 1856 |
| 10P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 30.2 | 0.4 | 2.1 | 37.4 | 1.9 | 2565 |
| 12P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 31.2 | 0.4 | 2.2 | 38.5 | 1.9 | 2768 |
| 16P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 35.0 | 0.4 | 2.3 | 42.6 | 2.1 | 3397 |
| 20P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 39.1 | 0.4 | 2.5 | 47.1 | 2.4 | 4117 |
| 24P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 44.3 | 0.4 | 2.7 | 52.7 | 2.6 | 5050 |
| 32P | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 49.5 | 0.4 | 2.9 | 58.4 | 2.9 | 6271 |
| 2T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 18.8 | 0.3 | 1.6 | 24.5 | 1.2 | 1046 |
| 4T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.0 | 22.0 | 0.3 | 1.8 | 28.0 | 1.4 | 1402 |
| 8T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 29.9 | 0.3 | 2.1 | 36.6 | 1.8 | 2353 |
| 12T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.2 | 36.7 | 0.4 | 2.4 | 44.5 | 2.2 | 3592 |
| 16T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.4 | 41.7 | 0.4 | 2.6 | 49.9 | 2.5 | 4510 |
| 24T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 52.8 | 0.4 | 3.0 | 61.9 | 3.1 | 6755 |
| 32T | 1.5 | 7/0.53 | 1.59 | 0.8 | 1.6 | 58.6 | 0.4 | 3.3 | 68.2 | 3.4 | 8315 |



RU · RB

NEK606 Type Cable



Voltage rating

- 0.6/1kV

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-3
- NEK 606
- IEC 60332-3 Cat.AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC60228 Class2
- Insulation
HF-EPR as per IEC 60092-351
- Sheath
IEC 60092-359, SHF 2

Cable Type

- RU, RB
- RB : Mud Resistant type

Table 55 : 0.6/1KV, 1CORE

| Conductor | | | Insulation thickness | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 0.9 | 5.7 | 0.3 | 49 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.0 | 6.1 | 0.3 | 62 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.0 | 6.8 | 0.3 | 81 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.0 | 7.4 | 0.4 | 105 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.0 | 8.4 | 0.4 | 153 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.1 | 9.5 | 0.5 | 218 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.2 | 11.4 | 0.6 | 330 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.2 | 12.6 | 0.6 | 434 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.3 | 14.6 | 0.7 | 581 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.4 | 17.0 | 0.9 | 818 |
| 95 | 19/2.52 | 12.6 | 1.6 | 1.4 | 19.1 | 1.0 | 1091 |
| 120 | 37/2.03 | 14.21 | 1.6 | 1.5 | 20.9 | 1.0 | 1348 |
| 150 | 37/2.25 | 15.75 | 1.8 | 1.6 | 23.0 | 1.2 | 1649 |
| 185 | 37/2.52 | 17.64 | 2.0 | 1.7 | 25.6 | 1.3 | 2054 |
| 240 | 61/2.25 | 20.25 | 2.2 | 1.8 | 28.8 | 1.4 | 2669 |
| 300 | 61/2.52 | 22.68 | 2.4 | 1.9 | 31.9 | 1.6 | 3322 |
| 400 | 61/2.85 | 25.65 | 2.6 | 2.1 | 35.6 | 1.8 | 5050 |
| 500 | 61/3.2 | 28.80 | 2.8 | 2.2 | 39.5 | 2.0 | 5730 |
| 630 | 91/2.98 | 32.78 | 2.8 | 2.4 | 43.8 | 2.2 | 6620 |



Table 56 : 0.6/1KV, 2CORE

| Conductor | | | Insulation thickness | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.1 | 10.0 | 0.5 | 135 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.1 | 10.9 | 0.5 | 170 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.2 | 12.1 | 0.6 | 223 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.2 | 13.4 | 0.7 | 287 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.3 | 15.4 | 0.8 | 410 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.4 | 17.7 | 0.9 | 578 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.5 | 21.4 | 1.1 | 877 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.6 | 23.9 | 1.2 | 1142 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.8 | 27.9 | 1.4 | 1542 |
| 70 | 19/2.14 | 10.7 | 1.6 | 1.9 | 32.7 | 1.6 | 2167 |
| 95 | 19/2.52 | 12.6 | 1.6 | 2.1 | 36.8 | 1.8 | 2863 |
| 120 | 37/2.03 | 14.21 | 1.6 | 2.2 | 40.5 | 2.0 | 3526 |
| 150 | 37/2.25 | 15.75 | 1.8 | 2.4 | 44.7 | 2.2 | 4318 |
| 185 | 37/2.52 | 17.64 | 2.0 | 2.6 | 49.7 | 2.5 | 5378 |
| 240 | 61/2.25 | 20.25 | 2.2 | 2.8 | 56.3 | 2.8 | 6977 |
| 300 | 61/2.52 | 22.68 | 2.4 | 3.0 | 62.5 | 3.1 | 8673 |

Table 57 : 0.6/1KV, 3CORE

| Conductor | | | Insulation thickness | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.1 | 10.6 | 0.5 | 161 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 11.6 | 0.6 | 205 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.2 | 12.9 | 0.6 | 274 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.3 | 14.2 | 0.7 | 357 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.3 | 16.4 | 0.8 | 519 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.4 | 18.8 | 0.9 | 743 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.6 | 22.9 | 1.1 | 1133 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.7 | 25.5 | 1.3 | 1488 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.8 | 29.8 | 1.5 | 2008 |
| 70 | 19/2.14 | 10.7 | 1.6 | 2.0 | 35.0 | 1.7 | 2835 |
| 95 | 19/2.52 | 12.6 | 1.6 | 2.2 | 39.4 | 2.0 | 3770 |
| 120 | 37/2.03 | 14.21 | 1.6 | 2.3 | 43.4 | 2.2 | 4655 |
| 150 | 37/2.25 | 15.75 | 1.8 | 2.5 | 47.9 | 2.4 | 5707 |
| 185 | 37/2.52 | 17.64 | 2.0 | 2.7 | 53.3 | 2.7 | 7117 |
| 240 | 61/2.25 | 20.25 | 2.2 | 3.0 | 60.4 | 3.0 | 9251 |
| 300 | 61/2.52 | 22.68 | 2.4 | 3.2 | 67.0 | 3.4 | 11516 |

Table 58 : 0.6/1KV, 4CORE

| Conductor | | | Insulation thickness | Sheath thickness | Overall diameter | Tolerance (±) | Approx. cable weight |
|----------------------|---------------|---------|----------------------|------------------|------------------|---------------|----------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 11.6 | 0.6 | 199 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 12.7 | 0.6 | 255 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.3 | 14.2 | 0.7 | 343 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.3 | 15.7 | 0.8 | 450 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.4 | 18.1 | 0.9 | 659 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.5 | 20.9 | 1.0 | 948 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.7 | 25.4 | 1.3 | 1452 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.8 | 28.4 | 1.4 | 1913 |
| 50 | 19/1.78 | 8.9 | 1.4 | 2.0 | 33.2 | 1.7 | 2584 |
| 70 | 19/2.14 | 10.7 | 1.6 | 2.2 | 39.0 | 1.9 | 3655 |
| 95 | 19/2.52 | 12.6 | 1.6 | 2.4 | 44.0 | 2.2 | 4871 |
| 120 | 37/2.03 | 14.21 | 1.6 | 2.5 | 48.4 | 2.4 | 6022 |
| 150 | 37/2.25 | 15.75 | 1.8 | 2.7 | 53.5 | 2.7 | 7386 |
| 185 | 37/2.52 | 17.64 | 2.0 | 2.9 | 59.5 | 3.0 | 9217 |
| 240 | 61/2.25 | 20.25 | 2.2 | 3.2 | 67.4 | 3.4 | 11991 |
| 300 | 61/2.52 | 22.68 | 2.4 | 3.5 | 74.9 | 3.7 | 14936 |

Table 59 : 0.6/1KV, 2+E CORE

| Conductor | | | Insulation thickness mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|----------------------|---------------|---------|----------------------------|------------------------|------------------------|---------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.1 | 10.6 | 0.5 | 161 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 11.6 | 0.6 | 205 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.2 | 12.9 | 0.6 | 274 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.3 | 14.2 | 0.7 | 357 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.3 | 16.4 | 0.8 | 519 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.4 | 18.8 | 0.9 | 743 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.6 | 22.9 | 1.1 | 1071 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.7 | 25.5 | 1.3 | 1417 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.8 | 29.8 | 1.5 | 1857 |
| 70 | 19/2.14 | 10.7 | 1.6 | 2.0 | 35.0 | 1.7 | 2612 |
| 95 | 19/2.52 | 12.6 | 1.6 | 2.2 | 39.4 | 2.0 | 3435 |
| 120 | 37/2.03 | 14.21 | 1.6 | 2.3 | 43.4 | 2.2 | 4287 |
| 150 | 37/2.25 | 15.75 | 1.8 | 2.5 | 47.9 | 2.4 | 5345 |
| 185 | 37/2.52 | 17.64 | 2.0 | 2.7 | 53.3 | 2.7 | 6497 |
| 240 | 61/2.25 | 20.25 | 2.2 | 3.0 | 60.4 | 3.0 | 8407 |
| 300 | 61/2.52 | 22.68 | 2.4 | 3.2 | 67.0 | 3.4 | 10429 |

Table 60 : 0.6/1KV, 3+E CORE

| Conductor | | | Insulation thickness mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|----------------------|---------------|---------|----------------------------|------------------------|------------------------|---------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 11.6 | 0.6 | 186 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 12.7 | 0.6 | 236 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.3 | 14.2 | 0.7 | 313 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.3 | 15.7 | 0.8 | 405 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.4 | 18.1 | 0.9 | 585 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.5 | 20.9 | 1.0 | 831 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.6 | 24.4 | 1.2 | 1147 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.8 | 27.7 | 1.4 | 1544 |
| 50 | 19/1.78 | 8.9 | 1.4 | 1.9 | 31.3 | 1.6 | 1958 |
| 70 | 19/2.14 | 10.7 | 1.6 | 2.1 | 36.4 | 1.8 | 2723 |
| 95 | 19/2.52 | 12.6 | 1.6 | 2.3 | 41.3 | 2.1 | 3604 |
| 120 | 37/2.03 | 14.21 | 1.6 | 2.4 | 46.1 | 2.3 | 4555 |
| 150 | 37/2.25 | 15.75 | 1.8 | 2.6 | 51.2 | 2.6 | 5698 |
| 185 | 37/2.52 | 17.64 | 2.0 | 2.8 | 55.7 | 2.8 | 6783 |
| 240 | 61/2.25 | 20.25 | 2.2 | 3.1 | 62.7 | 3.1 | 8727 |
| 300 | 61/2.52 | 22.68 | 2.4 | 3.3 | 69.6 | 3.5 | 10816 |

Table 61 : 0.6/1KV, 4+E CORE

| Conductor | | | Insulation thickness mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|----------------------|---------------|---------|----------------------------|------------------------|------------------------|---------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 12.9 | 0.6 | 220 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 1.3 | 14.1 | 0.7 | 277 |
| 4 | 7/0.85 | 2.55 | 1.0 | 1.3 | 15.8 | 0.8 | 364 |
| 6 | 7/1.04 | 3.12 | 1.0 | 1.4 | 17.4 | 0.9 | 469 |
| 10 | 7/1.35 | 4.05 | 1.0 | 1.5 | 20.2 | 1.0 | 670 |
| 16 | 7/1.7 | 5.1 | 1.0 | 1.6 | 23.2 | 1.2 | 945 |
| 25 | 7/2.14 | 6.42 | 1.2 | 1.7 | 27.3 | 1.4 | 1313 |
| 35 | 7/2.52 | 7.56 | 1.2 | 1.9 | 31.0 | 1.5 | 1753 |
| 50 | 19/1.78 | 8.9 | 1.4 | 2.0 | 35.3 | 1.8 | 2246 |
| 70 | 19/2.14 | 10.7 | 1.6 | 2.3 | 41.2 | 2.1 | 3124 |
| 95 | 19/2.52 | 12.6 | 1.6 | 2.5 | 46.7 | 2.3 | 4117 |
| 120 | 37/2.03 | 14.21 | 1.6 | 2.7 | 51.9 | 2.6 | 5178 |
| 150 | 37/2.25 | 15.75 | 1.8 | 2.9 | 57.6 | 2.9 | 6463 |
| 185 | 37/2.52 | 17.64 | 2.0 | 3.1 | 63.0 | 3.2 | 7732 |
| 240 | 61/2.25 | 20.25 | 2.2 | 3.4 | 71.1 | 3.6 | 9949 |
| 300 | 61/2.52 | 22.68 | 2.4 | 3.7 | 78.9 | 3.9 | 12327 |

Table 62 : 0.6/1KV, 1.5mm²

| No. of cores | Conductor | | | Insulation thickness mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|--------------|----------------------|---------------|---------|----------------------------|------------------------|------------------------|---------------------|-------------------------------|
| | Size mm ² | Const. No./mm | Dia. mm | | | | | |
| - | - | - | - | - | - | - | - | - |
| 2 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.1 | 10.0 | 0.5 | 135 |
| 4 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.2 | 11.6 | 0.6 | 199 |
| 7 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.3 | 14.0 | 0.7 | 301 |
| 9 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.3 | 16.5 | 0.8 | 409 |
| 12 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.4 | 18.6 | 0.9 | 526 |
| 14 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.5 | 19.6 | 1.0 | 594 |
| 19 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.5 | 22.0 | 1.1 | 762 |
| 23 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.6 | 24.5 | 1.2 | 937 |
| 27 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.7 | 26.0 | 1.3 | 1104 |
| 33 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.8 | 28.8 | 1.4 | 1309 |
| 37 | 1.5 | 7/0.53 | 1.59 | 1.0 | 1.8 | 30.0 | 1.5 | 1435 |
| 44 | 1.5 | 7/0.53 | 1.59 | 1.0 | 2.0 | 34.0 | 1.7 | 1799 |

Table 63 : 0.6/1KV, 2.5mm²

| No. of cores | Conductor | | | Insulation thickness mm | Sheath thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|--------------|----------------------|---------------|---------|----------------------------|------------------------|------------------------|---------------------|-------------------------------|
| | Size mm ² | Const. No./mm | Dia. mm | | | | | |
| - | - | - | - | - | - | - | - | - |
| 2 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.1 | 10.9 | 0.5 | 170 |
| 4 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.2 | 12.7 | 0.6 | 247 |
| 7 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.3 | 15.6 | 0.8 | 373 |
| 9 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.4 | 18.1 | 0.9 | 504 |
| 12 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.5 | 20.5 | 1.0 | 648 |
| 14 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.5 | 21.6 | 1.1 | 731 |
| 19 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.6 | 24.3 | 1.2 | 937 |
| 23 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.7 | 27.0 | 1.4 | 1151 |
| 27 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.8 | 29.4 | 1.5 | 1356 |
| 33 | 2.5 | 7/0.67 | 2.01 | 1.0 | 1.9 | 31.8 | 1.6 | 1609 |
| 37 | 2.5 | 7/0.67 | 2.01 | 1.0 | 2.0 | 33.2 | 1.7 | 1763 |
| 44 | 2.5 | 7/0.67 | 2.01 | 1.0 | 2.1 | 37.6 | 1.9 | 2212 |





RX · UX

NEK606 Type Cable



Voltage rating

- 0.6/1kV

Maximum conductor temperature

- 85 °C

Applied Standards

- IEC 60092-353
- NEK 606
- IEC 60332-3 Cat.AF
- IEC 60754-1 & 2
- IEC 61034-2

Construction Details

- Conductor
IEC60228 Class2
- Insulation
IEC60092-359, SHF2

Cable Type

- RX, UX

Table 64 : 0.6/1KV, 1CORE

| Conductor | | | Insulation thickness mm | Overall diameter mm | Tolerance (±) mm | Approx. cable weight kg/km |
|-------------------------|------------------|------------|----------------------------|------------------------|------------------------|-------------------------------|
| Size mm ² | Const. No./mm | Dia. mm | | | | |
| 1.5 | 7/0.53 | 1.59 | 1.0 | 3.7 | 0.2 | 27 |
| 2.5 | 7/0.67 | 2.01 | 1.0 | 4.1 | 0.2 | 37 |
| 4 | 7/0.85 | 2.55 | 1.0 | 4.7 | 0.2 | 53 |
| 6 | 7/1.04 | 3.12 | 1.0 | 5.3 | 0.3 | 74 |
| 10 | 7/1.35 | 4.05 | 1.0 | 6.2 | 0.3 | 115 |
| 16 | 7/1.7 | 5.1 | 1.0 | 7.2 | 0.4 | 173 |
| 25 | 7/2.14 | 6.42 | 1.2 | 9.0 | 0.4 | 272 |
| 35 | 7/2.52 | 7.56 | 1.2 | 10.1 | 0.5 | 366 |
| 50 | 19/1.78 | 8.9 | 1.4 | 11.9 | 0.6 | 497 |
| 70 | 19/2.14 | 10.7 | 1.6 | 14.2 | 0.7 | 713 |
| 95 | 19/2.52 | 12.6 | 1.6 | 16.1 | 0.8 | 966 |
| 120 | 37/2.03 | 14.21 | 1.6 | 17.8 | 0.9 | 1204 |
| 150 | 37/2.25 | 15.75 | 1.8 | 19.7 | 1.0 | 1481 |
| 185 | 37/2.52 | 17.64 | 2.0 | 22.0 | 1.1 | 1856 |
| 240 | 61/2.25 | 20.25 | 2.2 | 25.1 | 1.3 | 2429 |
| 300 | 61/2.52 | 22.68 | 2.4 | 27.9 | 1.4 | 3038 |
| 400 | 61/2.85 | 25.65 | 2.6 | 31.3 | 1.6 | 1685 |
| 500 | 61/3.2 | 28.80 | 2.8 | 34.9 | 1.7 | 2096 |
| 630 | 91/2.98 | 32.78 | 2.8 | 38.8 | 1.9 | 3230 |



Technical Information

Current ratings

For power cables, the current ratings are given in the following table :

(at 45 °C)

| Conductor Area mm ² | Single Core | Two Core | Three Core |
|-----------------------------------|-------------|----------|------------|
| | Amp | Amp | Amp |
| 0.5 | 10 | 8.5 | 7 |
| 0.75 | 13 | 11 | 9 |
| 1.0 | 16 | 14 | 11 |
| 1.5 | 20 | 17 | 14 |
| 2.5 | 28 | 24 | 20 |
| 4 | 38 | 32 | 27 |
| 6 | 48 | 41 | 34 |
| 10 | 67 | 57 | 47 |
| 16 | 90 | 76 | 63 |
| 25 | 120 | 100 | 84 |
| 35 | 145 | 125 | 102 |
| 50 | 180 | 155 | 126 |
| 70 | 225 | 190 | 158 |
| 95 | 275 | 235 | 193 |
| 120 | 320 | 272 | 224 |
| 150 | 365 | 310 | 256 |
| 185 | 415 | 353 | 291 |
| 240 | 490 | - | - |
| 300 | 560 | - | - |
| 400 | 680 | - | - |
| 500 | 780 | - | - |
| 630 | 900 | - | - |

For control cables, the current ratings are given by the following formula :

(at 45 °C)

$$I = \frac{I_1}{\sqrt[3]{N}}$$

I₁ : Current for single Core

N : No. of Cores

| No. of cores | Ampere | | |
|--------------|---------------------|------------------|--------------------|
| | 0.75mm ² | 1mm ² | 1.5mm ² |
| 2 | 10 | 13 | 16 |
| 4 | 8 | 10 | 13 |
| 7 | 7 | 8 | 10 |
| 12 | 6 | 7 | 9 |
| 19 | 5 | 6 | 7 |
| 27 | 4 | 5 | 7 |
| 37 | 4 | 5 | 6 |
| 44 | 4 | 5 | 6 |
| 77 | 3 | 4 | 5 |

The tabled current ratings must be adjusted for ambient air temperature other than 45 °C, Appropriate rating factors are :

| Ambient temperature | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
|---------------------|------|------|------|------|------|------|------|------|------|------|-----|
| Rating factor | 1.22 | 1.17 | 1.12 | 1.06 | 1.00 | 0.94 | 0.87 | 0.79 | 0.71 | 0.61 | 0.5 |

Short circuit current rating

The following short circuit currents are for cables operating normally at a maximum conductor temperature of 85 °C. The theoretical temperature that arises in the conductor during a short circuit, which is used as basis of the calculation, is 250 °C. EPR insulation are capable of withstanding short term temperatures up to 250 °C. The short circuit currents for copper conductors given in the table are values for one second, for other durations the current may be calculated from the following formula :

$$I_t = \frac{I}{\sqrt{t}}$$

I_t = short circuit current for t sec.(A)

I = short circuit current for one sec.(A)

t = short circuit duration(sec.)

The duration of the short circuit based on these assumptions should be between 0.2 sec. and 10 sec.

| Conductor area mm ² | Current One second amperes | Conductor area mm ² | Current One second amperes |
|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| 1.0 | 140 | 70 | 9,800 |
| 1.5 | 210 | 95 | 13,300 |
| 2.5 | 350 | 120 | 16,800 |
| 4 | 560 | 150 | 21,000 |
| 6 | 840 | 185 | 25,900 |
| 10 | 1,400 | 240 | 33,600 |
| 16 | 2,240 | 300 | 42,000 |
| 25 | 3,500 | 400 | 56,000 |
| 35 | 4,900 | 500 | 70,000 |
| 50 | 7,000 | 630 | 88,200 |

Reactance

The reactance of a cable operating in an AC system depends on many factors, including, in particular, the axial spacing between conductors and the proximity and magnetic properties of adjacent steelwork. The former is known for multicore cable, but may vary for single core cables depending upon the spacing between them and their disposition when installed.

Reactances of cables in certain dispositions remote from steelwork are calculable and are shown.

The tabulated values are for cables with circular conductors.

The value for a sector-shaped conductor should be taken as 90% of the tabulated value.

The value of reactance so calculated is for a supply frequency of 60Hz. For any other frequency, a correction should be made in direct proportion to the frequency.

For example, the reactance at 50Hz is 0.83 times that at 60Hz.

| Conductor area mm ² | Reactance(X) | |
|-----------------------------------|--------------|--------------|
| | 60Hz Ω/km | 50Hz Ω/km |
| 1.5 | 0.136 | 0.113 |
| 2.5 | 0.125 | 0.104 |
| 4 | 0.117 | 0.097 |
| 6 | 0.111 | 0.092 |
| 10 | 0.104 | 0.086 |
| 16 | 0.098 | 0.081 |
| 25 | 0.096 | 0.080 |
| 35 | 0.093 | 0.077 |
| 50 | 0.093 | 0.077 |
| 70 | 0.092 | 0.076 |
| 95 | 0.089 | 0.074 |
| 120 | 0.088 | 0.073 |
| 150 | 0.088 | 0.073 |
| 185 | 0.088 | 0.073 |
| 240 | 0.087 | 0.072 |
| 300 | 0.086 | 0.072 |

Inductance

Induction for 2-and 3-conductor cables is given by the formula:

$$L = 0.2 \left(\ln \frac{2a}{d} + 0.25 \right) \times 10^{-6}$$

L = induction in H/m

a = axial space between conductors in mm

d = conductor diameter in mm

Reactance for 2-and 3-conductor cables is given by the formula:

$$X = 2\pi f \cdot L \cdot I$$

X = reactance in ohm pr.phase

L = induction in H/m

f = frequency in Hz

I = conductor length in m.

| Conductor area mm ² | Inductance(L) mH/Km |
|-----------------------------------|------------------------|
| 1.5 | 0.354 |
| 2.5 | 0.327 |
| 4 | 0.306 |
| 6 | 0.289 |
| 10 | 0.270 |
| 16 | 0.256 |
| 25 | 0.253 |
| 35 | 0.244 |
| 50 | 0.244 |
| 70 | 0.243 |
| 95 | 0.236 |
| 120 | 0.231 |
| 150 | 0.232 |
| 185 | 0.231 |
| 240 | 0.229 |
| 300 | 0.228 |

Impedance

Impedance for 2-and 3-conductor cables is given by the formula :

$$Z = \sqrt{R^2 + X^2}$$

Z = impedance in ohm pr. phase

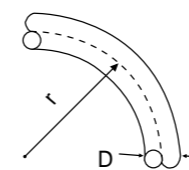
R = resistance at operating temp. in ohm pr. phase

X = reactance in ohm pr.phase.

(at 50Hz)

| Conductor area mm ² | Impedance(Z) Ω/km |
|-----------------------------------|----------------------|
| 1.5 | 15.317 |
| 2.5 | 9.492 |
| 4 | 5.901 |
| 6 | 3.905 |
| 10 | 2.312 |
| 16 | 1.459 |
| 25 | 0.925 |
| 35 | 0.669 |
| 50 | 0.497 |
| 70 | 0.347 |
| 95 | 0.256 |
| 120 | 0.207 |
| 150 | 0.174 |
| 185 | 0.145 |

Minimum bending radius



r : radius
 D : external diameter

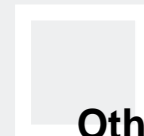
| Type of cable | | Min. bending radius(r) |
|-------------------|-----------|--|
| 0.6/1kV and below | Unarmored | $D \leq 25\text{mm}$ $D > 25\text{m}$ |
| | Armored | 6D |
| Above 0.6/1kV | | 12D |

Voltage drop coefficient

The voltage drop coefficients in each circuit are given in the following table :

(at 50Hz)

| Voltage | Dielectric power factor size(mm ²) | 100 | 95 | 90 | 85 | 80 | 75 | 70 |
|---------|--|--------------------------|------|------|------|------|------|------|
| | | Voltage drop coefficient | | | | | | |
| 250V | 0.75 | 1.00 | 0.95 | 0.90 | 0.85 | 0.80 | 0.75 | 0.70 |
| | 1 | 1.00 | 0.95 | 0.90 | 0.85 | 0.80 | 0.75 | 0.70 |
| 0.6/1kV | 1.5 | 1.00 | 0.95 | 0.90 | 0.85 | 0.80 | 0.75 | 0.71 |
| | 2.5 | 1.00 | 0.95 | 0.90 | 0.86 | 0.81 | 0.76 | 0.71 |
| | 4 | 1.00 | 0.96 | 0.91 | 0.86 | 0.81 | 0.76 | 0.71 |
| | 6 | 1.00 | 0.96 | 0.91 | 0.86 | 0.81 | 0.77 | 0.72 |
| | 10 | 1.00 | 0.96 | 0.92 | 0.87 | 0.82 | 0.77 | 0.73 |
| | 16 | 1.00 | 0.97 | 0.92 | 0.88 | 0.83 | 0.79 | 0.74 |
| | 25 | 1.00 | 0.98 | 0.94 | 0.90 | 0.85 | 0.81 | 0.76 |
| | 35 | 1.00 | 0.99 | 0.95 | 0.91 | 0.87 | 0.83 | 0.78 |
| | 50 | 1.00 | 1.00 | 0.97 | 0.93 | 0.89 | 0.85 | 0.81 |
| | 70 | 1.00 | 1.02 | 1.00 | 0.97 | 0.93 | 0.90 | 0.86 |
| | 95 | 1.00 | 1.04 | 1.03 | 1.01 | 0.98 | 0.95 | 0.92 |
| | 120 | 1.00 | 1.07 | 1.06 | 1.05 | 1.03 | 1.00 | 0.97 |
| | 150 | 1.00 | 1.09 | 1.10 | 1.09 | 1.08 | 1.05 | 1.03 |
| | 185 | 1.00 | 1.13 | 1.15 | 1.15 | 1.15 | 1.13 | 1.11 |
| 240 | 1.00 | 1.19 | 1.23 | 1.25 | 1.25 | 1.25 | 1.24 | |
| 300 | 1.00 | 1.24 | 1.31 | 1.35 | 1.36 | 1.37 | 1.37 | |



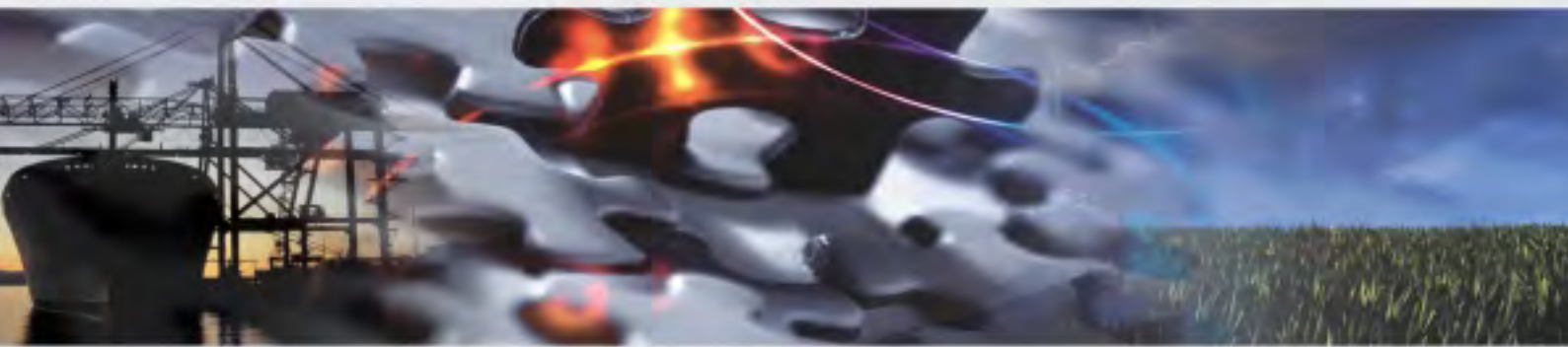
Other Productions

| Shipboard Cables | Offshore Cables |
|--|--|
| <p>JIS C 3410</p> <ul style="list-style-type: none"> - Max. conductor temp. : 85 °C - Construction/Material Insulation : EPR Sheath : PVC Aarmor : Steel wire braid - Class certification : ABS,DNV, LR, GL,BV,KR,NK <p>DIN 89158 ~ 89160</p> <ul style="list-style-type: none"> - Max. conductor temp. :85 °C - Construction/Material Insulation : HEPR Sheath : PCP or SHF1 Aarmor : Copper wire braid -Class certification : GL,KR <p>IEEE45/ IEEE1580 Type E,T</p> <ul style="list-style-type: none"> - Max. conductor temp. :90 °C - Construction/ Material Insulation : EPR Sheath : PVC Aarmor : Bronze wire braid - Class certification : ABS, UL, CCG <p>IEC 60092-350</p> <ul style="list-style-type: none"> - Max. conductor temp. : 85 °C - Construction/ Material Insulation : EPR or XLPE Sheath : SHF1 Aarmor : Copper wire braid - Class certification : ABS, DNV, GL, ETL, USCG | <p>JIS HF</p> <ul style="list-style-type: none"> - Max. conductor temp. : 85 °C - Construction/ Material Insulation : EPR Sheath : SHF2 Aarmor : Steel wire braid - Class certification : ABS, LR <p>IEEE45/ IEEE1580 Type P</p> <ul style="list-style-type: none"> - Max. conductor temp. :100 °C - Construction / Material Insulation : XLPO Sheath : PCP Aarmor : Bronze wire braid - Class certification : ABS, DNV, ETL, USCG <p>BS 6883 SW4</p> <ul style="list-style-type: none"> - Max. conductor temp. :85 °C - Construction / Material Insulation : EPR Sheath : Thermoset halogen free material (SW4) Aarmor : Steel or bronze wire braid <p>AS 4193</p> <ul style="list-style-type: none"> - Max. conductor temp. :85 °C - Construction/ Material Insulation : EPR Sheath : SHF2 Aarmor : Steel wire braid - Class certification : LR |

Note. 1. The material and construction can be changed according to customer's requirement.
 2. SHF1 or SHF2 is a material type as per IEC 60092-359



Memo



LS Cable
www.lscable.com