

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatie din polietilena reticulata
si manta fara halogen cu rezistenta marita la propagarea
flacarii

Armored power cable with XLPE insulation and halogen free
sheath (Low Smoke Zero Halogens)

| Standard | Aprobari /Approvals | Ambalare / Packaging |
|--|--|----------------------|
| SR HD 604 S1; IEC 60502-1, ST 139 Rev 2: 2016 | Certificat de omologare tehnica feroviara Nr.121, 122 / 2017, AFER Buc Railway Technical Approval Certificate No 121,122 / 2017, AFER Buc Romania | Tambur/ drum |

| CARACTERISTICI | | CHARACTERISTICS | | |
|---|--|---|---|---|
| Utilizare: Cabluurile sunt destinate pentru instalatii electrice fixe in centrale electrice, in cladiri publice, gari, aerogari, statii de metrou, supermarketuri, sali de spectacole, spitale etc. La ardere cabluurile nu degaja gaze toxice sau corozive si au emisie redusa de fum. Cabluurile se pot instala in locuri umede, dar nu direct in apa sau in pamant | | Applicability : The cables are designed for fixed wirings in power stations, public buildings, train stations, airports, underground stations, supermarkets, concert / theater halls, hospitals etc. The cables do not release toxic or corrosive fumes during combustions and have low smoke emission. The cables can be laid in wet environments, but not directly in the water or under the earth. | | |
| Tensiune nominala U ₀ /U | 0.6/1 kV | Rated voltage U ₀ /U | 0.6/ 1 kV | |
| Tensiune de incercare | 3.5 kV ca sau 8.4 kV cc, 5 min, 50 Hz | Test voltage | 3.5 kV ac or 8.4 kV dc, 5 min, 50 Hz | |
| Rezistivitatea de volum specifica, min, | la 20 °C - 10 ¹⁵ la 90°C - 10 ¹² | Volume resistivity at , min | la 20 °C-10 ¹⁵ la 90°C-10 ¹² | |
| Constanta rezistentei de izolatie | 90 °C: min 3.67 MΩ*km | Insulation resistance constant at | 90 °C: min 3.67 MΩ*km | |
| Temperatura minima de instalare pe cablu | -5°C | The minim temperature of de cable during installation | -5°C | |
| Temperatura maxima de lucru | +90°C | Max.permmissible operating temperature | +90°C | |
| Temperatura maxima de scurt-circuit | +250°C (max 5 sec) | Max. short-circuit temperature | +250°C (max 5 sec) | |
| Temperatura de utilizare normala | -30°C ++90°C | Normal operational temperature range | -30°C + +90°C | |
| Temperatura minima de montaj | -5°C | Temperature during installation | -5°C | |
| Temperatura masurata pe manta | -10°C ++90°C | Temperature measured on the sheath | -10°C + +90°C | |
| Conformitate RoHS | Da | RoHS compliancy | Yes | |
| Conformitate REACH | Da | REACH compliancy | Yes | |
| Conductor de cupru | Conductor unifilar (re), conductor multifilar (rm) sau sector-multifilar (sm), conf. SR EN 60228 | Copper conductor | Solid conductor (re), concentrically stranded conductor (rm) or sector-shaped (sm), according to SR EN 60228 | |
| Izolatie | Polietilena reticulata (XLPE) | Insulation | Crosslinked polyethylene (XLPE) | |
| Umplutura | Material plastic fara halogeni | Filling | Halogen-free compound | |
| Manta interna | Poliiolefina fara halogen, tip HM4 | Inner bedding | Halogen free polyolefine, HM4 type | |
| Armatura | Benzi de otel laminate la rece | Armor | Cold rolled steel tape | |
| Manta exterioara | Poliiolefina fara halogen, tip HM4 Cabluurile sunt cu intarziere marita la propagarea flacarii conf. SR EN 60332-3-24/ cat C Corozivitatea gazelor de ardere conf. SR EN 60754-2 * pH ≥ 4.3 * Conductivitatea ≤ 10 μS/mm Densitatea fumului, conf SR EN 61034-1 Permeabilitatea luminii: ≥ (50-70) % | Outer sheath | Halogen free polyolefine, HM4 type The cables are extra flame retardant according to EN 60332-3-24/ Category C Corrosivity of gases evolved according SR EN 60754-2 * pH ≥ 4.3 * Conductivity: ≤ 10 μS/mm Smoke density according SR EN 61034-1 Light permeability: ≥ (50-70) % | |
| Marcaj pe manta | SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj: N2XBH 4x2,5 mm ² 0.6/1 kV ELECTROPLAST SA 00/0000 0000 | Sheath marking | SC ELECTROPLAST SA, cable symbol, operational voltage, month, manufacture year, length mark. Example: N2XBH 4x2,5 mm ² 0.6/1 kV ELECTROPLAST SA 00/0000 0000 | |
| Raza minima de curbura la instalare | Min. 12 x diametrul cablului | Min. bending radius at installation | Min. 12 x cable diameter | |
| Forta maxima de tractiune la pozare | Max - 50 N/mm ² | Max. tensile strain during installation | Max - 50 N/mm ² | |
| Cod de culori conf SR HD 308 S2 (nr. de conductoare) | 1 | negru / galben-verde | 1 | black / yellow-green |
| | 2 | albastru, maro / galben-verde, negru, pt sect >10mm ² | 2 | blue, brown yellow-green, black for sect>10 mm ² |
| | 3 | maro, negru, gri / galben-verde, albastru, maro | 3 | brown, black, grey yellow-green, blue, brown |
| | 4 | albastru, maro, negru, gri / galben-verde, maro, negru, gri | 4 | blue, brown, black, grey yellow-green, brown, black, grey |
| | 5 | albastru, maro, negru, gri, negru / galben-verde, albastru, maro, negru, gri | 5 | blue, brown, black, grey, black yellow-green, blue, brown, black, grey. |
| | >5 | conductoare negre numerotate sau galben-verde si conductoare negre numerotate | >5 | numbered black conductors or yellow-green and numbered black conductors |

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatie din polietilena reticulata
si manta fara halogen cu rezistenta marita la propagarea
flacarii

Armored power cable with XLPE insulation and halogen free
sheath (Low Smoke Zero Halogens)

| Tipodimensiune cablu <i>Cable size</i> | Tip conductor <i>Cond. type</i> | Grosime radiala izolatie <i>Insulation's radial thickness</i> mm | Grosime radiala manta <i>Sheath's radial thickness</i> mm | Rezistenta electrica max, la 20°C <i>Max. resistance at 20°C</i> Ω/km | Diametru exterior <i>Outer diameter</i> mm |
|--|---------------------------------------|---|--|--|---|
| 1x16 | re | 0.7 | 1.8 | 1.15 | 12.5 |
| 1x16 | rm | 0.7 | 1.8 | 1.15 | 12.9 |
| 1x25 | rm | 0.9 | 1.8 | 0.727 | 14.4 |
| 1x35 | rm | 0.9 | 1.8 | 0.524 | 15.4 |
| 1x50 | rm | 1.0 | 1.8 | 0.387 | 16.8 |
| 1x70 | rm | 1.1 | 1.8 | 0.268 | 18.6 |
| 1x95 | rm | 1.1 | 1.8 | 0.193 | 20.5 |
| 1x120 | rm | 1.2 | 1.8 | 0.153 | 22.0 |
| 1x150 | rm | 1.4 | 1.8 | 0.124 | 23.7 |
| 1x185 | rm | 1.6 | 1.8 | 0.0991 | 25.9 |
| 1x240 | rm | 1.7 | 1.9 | 0.0754 | 28.5 |
| 1x300 | rm | 1.8 | 2.0 | 0.0601 | 31.0 |
| 1x630 | rm | 2.4 | 2.4 | 0.0283 | 45.9 |
| 2x1.5 | re | 0.7 | 1.8 | 12.1 | 12.8 |
| 2x2.5 | re | 0.7 | 1.8 | 7.41 | 13.5 |
| 2x4 | re | 0.7 | 1.8 | 4.61 | 14.4 |

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatii din polietilena reticulata
si manta fara halogen cu rezistenta marita la propagarea
flacarii

Armored power cable with XLPE insulation and halogen free
sheath (Low Smoke Zero Halogens)

| Tipodimensiune cablu <i>Cable size</i> | Tip conductor <i>Cond. type</i> | Grosime radiala izolatie <i>Insulation's radial thickness</i> mm | Grosime radiala manta <i>Sheath's radial thickness</i> mm | Rezistenta electrica max, la 20°C <i>Max. resistance at 20°C</i> Ω/km | Diametru exterior <i>Outer diameter</i> mm |
|--|---------------------------------------|---|--|--|---|
| 2x6 | re | 0.7 | 1.8 | 3.08 | 15.4 |
| 2x10 | re | 0.7 | 1.8 | 1.83 | 17.0 |
| 2x16 | re | 0.7 | 1.8 | 1.15 | 18.8 |
| 2x25 | rm | 0.9 | 1.8 | 0.727 | 22.6 |
| 2x35 | rm | 0.9 | 1.8 | 0.524 | 24.6 |
| 3x1.5 | re | 0.7 | 1.8 | 12.1 | 13.0 |
| 3x2.5 | re | 0.7 | 1.8 | 7.41 | 13.8 |
| 3x4 | re | 0.7 | 1.8 | 4.61 | 14.7 |
| 3x6 | re | 0.7 | 1.8 | 3.08 | 15.8 |
| 3x10 | re | 0.7 | 1.8 | 1.83 | 17.5 |
| 3x16 | re | 0.7 | 1.8 | 1.15 | 19.4 |
| 3x16+10 | re | 0.7/0.7 | 1.8 | 1.15/1.83 | 20.7 |
| 3x25 | rm | 0.9 | 1.8 | 0.727 | 23.8 |
| 3x25+16 | rm/re | 0.9/0.7 | 1.8 | 0.727/1.15 | 24.7 |
| 3x35 | sm | 0.9 | 1.8 | 0.524 | 26.0 |
| 3x35+16 | rm/re | 0.9/0.7 | 1.8 | 0.524/1.15 | 26.5 |
| 3x50 | sm | 1.0 | 1.8 | 0.387 | 27.2 |
| 3x50+25 | sm/rm | 1.0/0.9 | 1.8 | 0.387/0.727 | 27.2 |
| 3x70 | sm | 1.1 | 1.9 | 0.268 | 29.2 |

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatie din polietilena reticulata
si manta fara halogen cu rezistenta marita la propagarea
flacarii

Armored power cable with XLPE insulation and halogen free
sheath (Low Smoke Zero Halogens)

| Tipodimensiune cablu <i>Cable size</i> | Tip conductor <i>Cond. type</i> | Grosime radiala izolatie <i>Insulation's radial thickness</i> mm | Grosime radiala manta <i>Sheath's radial thickness</i> mm | Rezistenta electrica max, la 20°C <i>Max. resistance at 20°C</i> Ω/km | Diametru exterior <i>Outer diameter</i> mm |
|--|---------------------------------------|---|--|--|---|
| 3x70+35 | sm/rm | 1.1/0.9 | 1.9 | 0.268/0.524 | 30.6 |
| 3x95 | sm | 1.1 | 1.9 | 0.193 | 34.9 |
| 3x95+50 | sm/rm | 1.1/1.0 | 2.1 | 0.193; 0.387 | 34.4 |
| 3x120 | sm | 1.2 | 2.2 | 0.153 | 37.9 |
| 3x120+70 | sm/rm | 1.2/1.1 | 2.2 | 0.153/0.268 | 38.5 |
| 3x150 | sm | 1.4 | 2.3 | 0.124 | 41.9 |
| 3x150+70 | sm/rm | 1.4/1.1 | 2.2 | 0.124/0.268 | 39.9 |
| 3x185 | sm | 1.6 | 2.4 | 0.0991 | 45.7 |
| 3x185+95 | sm/rm | 1.6/1.1 | 2.5 | 0.0991/0.193 | 46.9 |
| 3x240 | sm | 1.7 | 2.5 | 0.0754 | 48.9 |
| 3x240+120 | sm/rm | 1.7/1.2 | 2.8 | 0.0754/0.153 | 56.9 |
| 4x1.5 | re | 0.7 | 1.8 | 12.1 | 13.9 |
| 4x2.5 | re | 0.7 | 1.8 | 7.41 | 10.8 |
| 4x4 | re | 0.7 | 1.8 | 4.61 | 15.8 |
| 4x6 | re | 0.7 | 1.8 | 3.08 | 17.1 |
| 4x10 | re | 0.7 | 1.8 | 1.83 | 19.1 |
| 4x16 | re | 0.7 | 1.8 | 1.15 | 21.8 |
| 4x25 | rm | 0.9 | 1.8 | 0.727 | 25.8 |
| 4x35 | sm | 0.9 | 1.8 | 0.524 | 28.2 |

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatie din polietilena reticulata
si manta fara halogen cu rezistenta marita la propagarea
flacarii

Armored power cable with XLPE insulation and halogen free
sheath (Low Smoke Zero Halogens)

| Tipodimensiune cablu <i>Cable size</i> | Tip conductor <i>Cond. type</i> | Grosime radiala izolatii <i>Insulation's radial thickness</i> mm | Grosime radiala manta <i>Sheath's radial thickness</i> mm | Rezistenta electrica max, la 20°C <i>Max. resistance at 20°C</i> Ω/km | Diametru exterior <i>Outer diameter</i> mm |
|--|---------------------------------------|---|--|--|---|
| 4x50 | sm | 1.0 | 1.9 | 0.387 | 29.8 |
| 4x70 | sm | 1.1 | 2.0 | 0.268 | 33.8 |
| 4x95 | sm | 1.1 | 2.2 | 0.193 | 38.5 |
| 4x120 | sm | 1.8 | 2.3 | 0.153 | 42.1 |
| 4x150 | sm | 1.4 | 2.4 | 0.124 | 46.1 |
| 4x185 | sm | 1.6 | 2.6 | 0.0991 | 50.7 |
| 5x1.5 | re | 0.7 | 1.8 | 12.1 | 14.7 |
| 5x2.5 | re | 0.7 | 1.8 | 7.41 | 15.7 |
| 5x4 | re | 0.7 | 1.8 | 4.61 | 16.9 |
| 5x6 | re | 0.7 | 1.8 | 3.08 | 18.3 |
| 5x10 | re | 0.7 | 1.8 | 1.83 | 20.4 |
| 5x16 | re | 0.7 | 1.9 | 1.15 | 22.3 |
| 5x25 | rm | 0.9 | 1.9 | 0.727 | 28.2 |
| 5x35 | rm | 0.9 | 1.9 | 0.524 | 30.9 |
| 5x50 | rm | 1.0 | 2.1 | 0.387 | 36.4 |
| 7x1.5 | re | 0.7 | 1.8 | 12.1 | 15.5 |
| 7x2.5 | re | 0.7 | 1.8 | 7.41 | 16.7 |
| 7x4 | re | 0.7 | 1.8 | 4.61 | 18.0 |
| 8x1.5 | re | 0.7 | 1.8 | 12.1 | 17.3 |

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatie din polietilena reticulata
si manta fara halogen cu rezistenta marita la propagarea
flacarii

Armored power cable with XLPE insulation and halogen free
sheath (Low Smoke Zero Halogens)

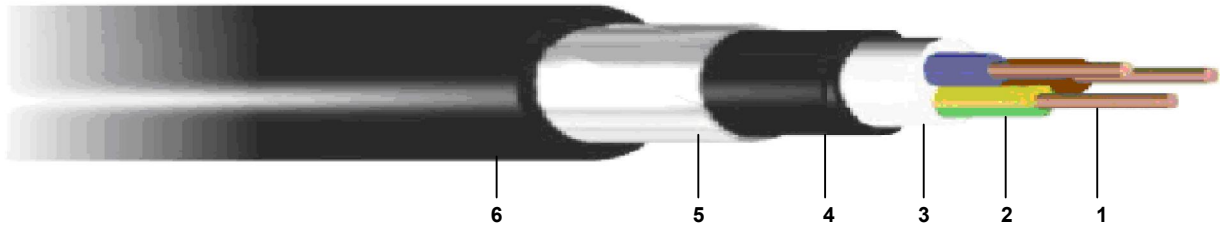
| Tipodimensiune cablu <i>Cable size</i> | Tip conductor <i>Cond. type</i> | Grosime radiala izolatie <i>Insulation's radial thickness</i> mm | Grosime radiala manta <i>Sheath's radial thickness</i> mm | Rezistenta electrica max, la 20°C <i>Max. resistance at 20°C</i> Ω/km | Diametru exterior <i>Outer diameter</i> mm |
|--|---------------------------------------|---|--|--|---|
| 8x2.5 | re | 0.7 | 1.8 | 7.41 | 18.7 |
| 8x4 | re | 0.7 | 1.8 | 4.61 | 20.2 |
| 10x1.5 | re | 0.7 | 1.8 | 12.1 | 18.2 |
| 10x2.5 | re | 0.7 | 1.8 | 7.41 | 19.7 |
| 10x4 | re | 0.7 | 1.8 | 4.61 | 21.5 |
| 12x1.5 | re | 0.7 | 1.8 | 12.1 | 18.7 |
| 12x2.5 | re | 0.7 | 1.8 | 7.41 | 20.2 |
| 12x4 | re | 0.7 | 1.8 | 4.61 | 22.0 |
| 14x1.5 | re | 0.7 | 1.8 | 12.1 | 19.3 |
| 14x2.5 | re | 0.7 | 1.8 | 7.41 | 21.0 |
| 14x4 | re | 0.7 | 1.8 | 4.61 | 22.9 |
| 19x1.5 | re | 0.7 | 1.8 | 12.1 | 21.9 |
| 19x2.5 | re | 0.7 | 1.8 | 7.41 | 21.0 |
| 19x4 | re | 0.7 | 1.8 | 4.61 | 22.9 |

N2XBH , C2XAbH

Cablu de energie, armate, cu izolatie din polietilena reticulata si manta fara halogen cu rezistenta marita la propagarea flacarii

Armored power cable with XLPE insulation and halogen free sheath (Low Smoke Zero Halogens)

Forma constructiva:



| | | | |
|---|---|---|---|
| 1 | Conductoare rotunde, unifilare (ru) sau multifilare (rm), din cupru | 1 | Solid (ru) or stranded (rm) copper conductors |
| 2 | Conductoare izolate | 2 | Insulated conductors |
| 3 | Invelis comun extrudat sau din benzi | 3 | Filler |
| 4 | Manta interna | 4 | Inner sheath |
| 5 | Armatura din benzi de otel | 5 | Steel tape armor |
| 6 | Manta externa | 6 | Outer sheath |