

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

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

| Standard | Aprobări /Approvals | Ambalare / Packaging | |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| SR HD 604 S1; IEC 60502-1, ST 139 Rev 2 :2016 | Certificat de omologare tehnica feroviara Nr121,122/2017 , AFER Buc Railway Technical Approval Certificate No 121,122//2017 , AFER Buc Romania | Tambur/ drum | |

| CARACTERISTICI | | CHARACTERISTICS | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Utilizare: Cablurile sunt destinate pentru instalații electrice fixe in centrale electrice, în cladiri publice, gari, aerogari, stații de metrou, supermarketuri, sali de spectacole, spitale etc. La ardere cablurile nu degaja gaze toxice și corosive și au emisie redusa de fum. Cablurile se pot instala în locuri umede, dar nu direct în apa sau în 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 U₀/U | 0.6/1 kV | Rated voltage U₀/U | 0.6/1 kV | |
| Tensiune de incercare | 3.5 kV ca sau 8.4 kV cc,5 min | Test voltage | 3.5 kV ac or 8.4 kV dc,5 min | |
| 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 din aluminiu | Conductor unifilar (re), conductor multifilar (rm), sector multifilar (sm), conf. SR EN 60228. | Aluminum conductor | Solid conductor (re), concentrically stranded conductor (rm), sector-shaped (sm), according to SR EN 60228. | |
| Izolatie | XLPE | Insulation | XLPE | |
| Umplutura | Material plastic fara halogeni | Filling | Halogen-free plastic | |
| Manta exterioara | Poliolefina fara halogen, tip HM4. Cabluri 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 | Polyolefin, 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 : NA2XH 4x16 mm ² 0.6/1 kV ELECTROPLAST SA 00/0000 0000 | Sheath marking | SC ELECTROPLAST SA , cable symbol , operational voltage, months ,year of manufacture, mark length Example: NA2XH 4x16 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 | 30 N/mm ² | Max. tensile strain during installation | 30 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 |

NA2XH, AC2XH

Cablu de energie cu izolatie din polietilena reticulate si manta fara halogen cu rezistenta marita la propagarea flacarilor

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 |
|----------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1x4 | re | 0.7 | 1.2 | - | 7.6 |
| 1x6 | re | 0.7 | 1.2 | - | 8.2 |
| 1x10 | re | 0.7 | 1.2 | 1.83 | 9.2 |
| 1x16 | re | 0.7 | 1.2 | 1.15 | 10.5 |
| 1x25 | rm | 0.9 | 1.2 | 0.727 | 12.5 |
| 1x35 | rm | 0.9 | 1.2 | 0.524 | 13.5 |
| 1x50 | rm | 1.0 | 1.2 | 0.387 | 15.0 |
| 1x70 | rm | 1.1 | 1.2 | 0.268 | 17.0 |
| 1x95 | rm | 1.1 | 1.3 | 0.193 | 16.2 |
| 1x120 | rm | 1.2 | 1.3 | 0.153 | 17.9 |
| 1x150 | rm | 1.4 | 1.3 | 0.124 | 19.6 |
| 1x185 | rm | 1.6 | 1.4 | 0.0991 | 22.0 |
| 1x240 | rm | 1.7 | 1.4 | 0.0754 | 24.4 |
| 1x300 | rm | 1.8 | 1.5 | 0.0601 | 26.9 |
| 1x400 | rm | 2.0 | 1.5 | 0.0470 | 30.2 |
| 1x630 | rm | 2.4 | 1.7 | 0.0283 | 40.3 |
| 2x4 | re | 0.7 | 1.2 | - | 10.4 |
| 2x6 | re | 0.7 | 1.2 | - | 11.4 |
| 2x10 | re | 0.7 | 1.2 | 3.08 | 13.0 |
| 2x16 | re | 0.7 | 1.2 | 1.91 | 14.8 |

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

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 |
|----------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|
| 2x25 | rm | 0.9 | 1.3 | 1.2 | 18.8 |
| 2x35 | rm | 0.9 | 1.4 | 0.868 | 21.0 |
| 3x4 | re | 0.7 | 1.2 | - | 10.7 |
| 3x6 | re | 0.7 | 1.2 | - | 11.8 |
| 3x10 | re | 0.7 | 1.2 | 3.08 | 13.5 |
| 3x16 | re | 0.7 | 1.3 | 1.91 | 15.6 |
| 3x16+10 | re | 0.7/0.7 | 1.3 | 1.91/3.08 | 17.1 |
| 3x25 | rm | 0.9 | 1.3 | 1.2 | 19 |
| 3x25+16 | rm/re | 0.9/0.7 | 1.4 | 1.2/1.91 | 21.1 |
| 3x35 | sm | 0.9 | 1.4 | 0.868 | 19.1 |
| 3x35+16 | rm/re | 0.9/0.7 | 1.4 | 0.868/1.91 | 22.9 |
| 3x50 | sm | 1.0 | 1.8 | 0.641 | 24.1 |
| 3x50+25 | sm/rm | 1.0/0.9 | 1.8 | 0.641/1.2 | 24.1 |
| 3x70 | sm | 1.1 | 1.9 | 0.443 | 28.7 |
| 3x70+35 | sm/rm | 1.1/0.9 | 1.8 | 0.443/0.868 | 27.3 |
| 3x95 | sm | 1.1 | 1.9 | 0.32 | 30.5 |
| 3x95+50 | sm/rm | 1.1/1.0 | 1.9 | 0.32/0.641 | 30.9 |
| 3x120 | sm | 1.2 | 2.0 | 0.253 | 33.5 |
| 3x120+70 | sm/rm | 1.2/1.1 | 2.1 | 0.253/0.443 | 34.3 |

NA2XH, AC2XH

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

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 |
|----------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|
| 3x150 | sm | 1.4 | 2.2 | 0.206 | 37.5 |
| 3x150+70 | sm/rm | 1.4/1.1 | 2.1 | 0.206/0.443 | 35.7 |
| 3x185 | sm | 1.6 | 2.3 | 0.164 | 41.3 |
| 3x185+95 | sm/rm | 1.6/1.1 | 2.3 | 0.164/0.32 | 42.3 |
| 3x240 | sm | 1.7 | 2.4 | 0.125 | 44.3 |
| 3x240+120 | sm/rm | 1.7/1.2 | 2.6 | 0.125/0.253 | 51.9 |
| 4x4 | re | 0.7 | 1.2 | - | 11.9 |
| 4x6 | re | 0.7 | 1.2 | - | 13.1 |
| 4x10 | re | 0.7 | 1.3 | 3.08 | 15.3 |
| 4x16 | re | 0.7 | 1.3 | 1.91 | 17.4 |
| 4x25 | rm | 0.9 | 1.4 | 1.2 | 22.2 |
| 4x25+16 | rm;re | 0.9/0.7 | 1.4 | 1.2/1.91 | 24 |
| 4x35 | sm | 0.9 | 1.4 | 0.868 | 21.3 |
| 4x35+16 | rm;re | 0.9/0.7 | 1.5 | 0.838/1.91 | 27.3 |
| 4x50 | sm | 1.0 | 1.5 | 0.641 | 26.5 |
| 4x50+25 | rm;rm | 1.0/0.9 | 1.6 | 0.641/1.2 | 30.9 |
| 4x70 | sm | 1.1 | 1.5 | 0.443 | 29.7 |
| 4x70+35 | rm;rm | 1.1/0.9 | 1.7 | 0.443/0.868 | 35.9 |
| 4x95 | sm | 1.1 | 1.6 | 0.32 | 33.3 |

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

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 |
|--------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|
| 4x95+50 | rm;rm | 1.1/1.0 | 1.8 | 0.32/0.641 | 40.7 |
| 4x120 | sm | 1.2 | 1.7 | 0.253 | 36.9 |
| 4x120+70 | rm;rm | 1.2/1.1 | 1.8 | 0.253/0.443 | 45.3 |
| 4x150 | sm | 1.4 | 1.8 | 0.206 | 40.7 |
| 4x150+70 | rm;rm | 1.4/1.1 | 1.9 | 0.206/0.443 | 50.1 |
| 4x185 | sm | 1.6 | 1.8 | 0.164 | 44.7 |
| 4x185+95 | rm;rm | 1.4/1.1 | 2.0 | 0.164/0.32 | 56.2 |
| 4x240 | sm | 1.7 | 1.9 | 0.125 | 50.5 |
| 5x4 | re | 0.7 | 1.2 | - | 12.9 |
| 5x6 | re | 0.7 | 1.2 | - | 14.3 |
| 5x10 | re | 0.7 | 1.3 | 3.08 | 16.6 |
| 5x16 | re | 0.7 | 1.3 | 1.91 | 19.1 |
| 5x25 | rm | 0.9 | 1.4 | 1.2 | 24.4 |
| 5x35 | rm | 0.9 | 1.5 | 0.868 | 27.3 |
| 5x50 | rm | 1.0 | 1.6 | 0.641 | 31.3 |
| 5x70 | rm | 1.1 | 1.6 | 0.443 | 36.1 |

NA2XH, AC2XH

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

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

Forma constructiva :



| | | | |
|---|--------------------------------------------------------------|---|----------------------------------------------------------------|
| 1 | Conductoare rotunde, unifilare sau multifilare, din aluminiu | 1 | Monowire or multi wire, solid or stranded aluminium conductors |
| 2 | Conductoare izolate | 2 | Insulated conductors |
| 3 | Invelis comun extrudat sau din benzi | 3 | Filler |
| 4 | Manta exterioara | 4 | Outer sheath |