

**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	Aprobari /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		
<b>Utilizare:</b> Cabluurile sunt destinate pentru instalatii electrice fixe in centrale electrice, în cladiri publice, gari, aerogari, statii de metrou, supermarketuri, sali de spectacole, spitale etc. La ardere cabluurile nu degaja gaze toxice și corosive și au emisie redusa de fum. Cabluurile se pot instala în locuri umede, dar nu direct în apa sau în pamant.		<b>Applicability :</b> 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 <sub>0</sub> /U	0.6/1 kV	Rated voltage U <sub>0</sub> /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 <sup>15</sup> la 90°C-10 <sup>12</sup>	Volume resistivity at , min	la 20 °C-10 <sup>15</sup> la 90°C-10 <sup>12</sup>	
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	-40°C ++90°C	Normal operational temperature range	-40°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	
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	Poliiolefina 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 50267-2-2 (SR EN 60754-2) * pH ≥ 4.3 * Conductivitatea ≤ 10 μS.cm <sup>-1</sup> 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 50267-2-2 (SR EN 60754-2) * pH ≥ 4.3 * Conductivity: ≤ 10 μS.cm <sup>-1</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 -30 N/mm <sup>2</sup>	Max. tensile strain during installation	Max- 30 N/mm <sup>2</sup>	
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 <sup>2</sup>	2	blue, brown yellow-green, black for sect> 10 mm <sup>2</sup>
	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 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
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

## 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
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
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

## 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
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
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

## 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)*

<b>Tipodimensiune cablu</b> <i>Cable size</i>	<b>Tip conductor</b> <i>Cond. type</i>	<b>Grosime radiala izolatie</b> <i>Insulation's radial thickness</i> mm	<b>Grosime radiala manta</b> <i>Sheath's radial thickness</i> mm	<b>Rezistenta electrica max, la 20°C</b> <i>Max. resistance at 20°C</i> Ω/km	<b>Diametru exterior</b> <i>Outer diameter</i> mm
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
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

## 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
5x70	rm	1.1	1.6	0.443	36.1

### 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