

# N2XCH , C2XCH

**Cablu de energie flexibil cu conductor concentric, cu izolatie din polietilena reticulata si manta fara halogen cu rezistenta marita la propagarea flacarii**

**Power cable with concentric conductor, 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.113 ,114/ 2018, AFER Buc Railway Technical Approval Certificate No 113,114/ 2018, AFER Buc Romania	Tambur/ drum

CARACTERISTICI		CHARACTERISTICS		
<b>Utilizare:</b> 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		<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.		
<b>Tensiune nominala U<sub>0</sub>/U</b>	0.6/1 kV	<b>Rated voltage U<sub>0</sub>/U</b>	0.6/ 1 kV	
<b>Tensiune de incercare</b>	3.5 kV ca sau 8.4 kV cc, 5 min, 50 Hz	<b>Test voltage</b>	3.5 kV ac or 8.4 kV dc, 5 min, 50 Hz	
<b>Rezistivitatea de volum specifica, min,</b>	la 20 °C - 10 <sup>15</sup> la 90°C - 10 <sup>12</sup>	<b>Volume resistivity at, min</b>	la 20 °C-10 <sup>15</sup> la 90°C-10 <sup>12</sup>	
<b>Constanta rezistentei de izolatie</b>	90 °C: min 3.67 MΩ*km	<b>Insulation resistance constant at</b>	90 °C: min 3.67 MΩ*km	
<b>Temperatura minima de instalare pe cablu</b>	-5°C	<b>The minim temperature of de cable during installation</b>	-5°C	
<b>Temperatura maxima de lucru</b>	+90°C	<b>Max.permissible operating temperature</b>	+90°C	
<b>Temperatura maxima de scurt-circuit</b>	+250°C (max 5 sec)	<b>Max. short-circuit temperature</b>	+250°C (max 5 sec)	
<b>Temperatura de utilizare normala</b>	-30°C ++90°C	<b>Normal operational temperature range</b>	-30°C + +90°C	
<b>Temperatura minima de montaj</b>	-5°C	<b>Temperature during installation</b>	-5°C	
<b>Temperatura masurata pe manta</b>	-10°C ++90°C	<b>Temperature measured on the sheath</b>	-10°C + +90°C	
<b>Conformitate RoHS</b>	Da	<b>RoHS compliancy</b>	Yes	
<b>Conformitate REACH</b>	Da	<b>REACH compliancy</b>	Yes	
<b>Conductor de cupru</b>	Conductor multifilar flexibil (rm), cl.5 conf. SR EN 60228	<b>Copper conductor</b>	Flexible conductor (rm), cl.5 according to SR EN 60228	
<b>Izolatie</b>	Polietilena reticulate (XLPE)	<b>Insulation</b>	Crosslinked polyethylene (XLPE)	
<b>Umplutura</b>	Material plastic fara halogeni	<b>Filling</b>	Halogen-free compound	
<b>Manta interna</b>	Poliolefina fara halogen, tip HM4.	<b>Inner bedding</b>	Halogen free polyolefine, HM4 type.	
<b>Conductor concentric</b>	Sarme de cupru + contraspira din Cu	<b>Conductor concentric</b>	Copper wires + counterhelix copper tape.	
<b>Manta exterioara</b>	Poliolefina fara halogen, tip HM4. Cabluuri 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) %	<b>Outer sheath</b>	Halogen free polyolefine, HM4 type. 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) %	
<b>Marcaj pe manta</b>	SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj: N2XCH 4x2,5/16 mm <sup>2</sup> 0.6/1 kV ELECTROPLAST SA 00/0000 0000	<b>Sheath marking</b>	SC ELECTROPLAST SA, cable symbol, operational voltage, months, manufacture year, length mark. Example: N2XCH 4x2,5/16 mm <sup>2</sup> 0.6/1 kV ELECTROPLAST SA 00/0000 0000	
<b>Raza minima de curbura la instalare</b>	Min. 12 x diametrul cablului	<b>Min. bending radius at installation</b>	Min. 12 x cable diameter	
<b>Forta maxima de tractiune la pozare</b>	Max -50 N/mm <sup>2</sup>	<b>Max. tensile strain during installation</b>	Max- 50 N/mm <sup>2</sup>	
<b>Cod de culori conf SR HD 308 S2 (nr. de conductoare)</b>	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
		<b>Color coding according SR HD 308 S2 (no. of conductors)</b>		

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	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

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Tipodimensi une cablu <i>Cable size</i>	Tip conductor <i>Cond. type</i>	Grosime radial izolatie <i>Insulation's radial thickness</i>	Grosime radial manta <i>Sheath's radial thickness</i>	Rezistenta electrica maxima la 20°C <i>Max. resistance at 20°C</i>	Diametru exterior, inf <i>Outer diameter, inf</i>
		mm	mm	Ω/km	mm
1x25/16	cl.5	0.9	1.8	0.780/1.15	13.8
1x25/25	cl.5	0.9	1.8	0.780/0.727	14.2
1x50/50	cl.5	1.0	1.8	0.386/0.387	19.4
1x185/95	cl.5	1.6	1.9	0.106/0.0991	29.1
1x240/120	cl.5	1.7	1.9	0.0801/0.153	30.7
1x300/150	cl.5	1.8	2.0	0.0641/0.124	33.7
2x1.5/1.5	cl.5	0.7	1.8	13.3/12.1	12.2
2x2.5/2.5	cl.5	0.7	1.8	7.98/7.41	13.5
2x4/4	cl.5	0.7	1.8	4.95/4.61	14.1
2x6/6	cl.5	0.7	1.8	3.30/3.08	15.3
2x10/10	cl.5	0.7	1.8	1.91/1.83	17.6
2x16/16	cl.5	0.7	1.8	1.21/1.15	19.4
2x25/16	cl.5	0.9	1.8	0.780/1.15	23.2
2x25/25	cl.5	0.9	1.8	0.780/0.727	23.6
2x35/16	cl.5	0.9	1.8	0.554/1.15	25.2
2x35/25	cl.5	0.9	1.8	0.554/0.727	25.6
3x1.5/1.5	cl.5	0.7	1.8	13.3/12.1	12.5
3x2.5/1.5	cl.5	0.7	1.8	7.98/12.1	13.3
3x4/4	cl.5	0.7	1.8	4.95/4.61	14.5
3x6/6	cl.5	0.7	1.8	3.30/3.08	15.7
3x10/10	cl.5	0.7	1.8	1.91/1.83	18.1
3x16/16	cl.5	0.7	1.8	1.21/1.15	19.9
3x25/16	cl.5	0.9	1.8	0.780/1.15	23.9
3x25/25	cl.5	0.9	1.8	0.780/0.727	24.3

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Tipodimensi une cablu <i>Cable size</i>	Tip conductor <i>Cond. type</i>	Grosime radial izolatie <i>Insulation's radial thickness</i>	Grosime radial manta <i>Sheath's radial thickness</i>	Rezistenta electrica maxima la 20°C <i>Max. resistance at 20°C</i>	Diametru exterior, inf <i>Outer diameter, inf</i>
		mm	mm	Ω/km	mm
3x35/16	cl.5	0.9	1.8	0.554/1.15	23.9
4x1.5/1.5	cl.5	0.7	1.8	13.3/12.1	13.4
4x2.5/2.5	cl.5	0.7	1.8	7.98/7.41	14.9
4x4/4	cl.5	0.7	1.8	4.95/4.61	15.6
4x6/6	cl.5	0.7	1.8	3.30/3.08	17.0
4x10/10	cl.5	0.7	1.8	1.91/1.83	19.6
4x16/16	cl.5	0.7	1.8	1.21/1.15	21.8
4x25/16	cl.5	0.9	1.8	0.780/1.15	26.3
4x25/25	cl.5	0.9	1.8	0.780/0.727	26.8
4x35/16	cl.5	0.9	1.8	0.554/1.15	26.1
5x1.5/1.5	cl.5	0.7	1.8	13.3/12.1	14.1
5x2.5/2.5	cl.5	0.7	1.8	7.98/7.41	16.2
5x4/4	cl.5	0.7	1.8	4.95/4.61	16.6
5x6/6	cl.5	0.7	1.8	3.30/3.08	18.2
5x10/10	cl.5	0.7	1.8	1.91/1.83	21.0
5x10/16	cl.5	0.7	1.8	1.91/1.15	21
5x25/16	cl.5	0.9	1.8	0.780/1.15	28.6
5x35/16	cl.5	0.9	2.0	0.554/1.15	31.6
5x50/50	cl.5	1.0	2.1	0.386/0.387	36.1
5x50/25	cl.5	1.0	2.1	0.386/0.727	35.6
7x1.5/1.5	cl.5	0.7	1.8	13.3/12.1	15.0
7x2.5/2.5	cl.5	0.7	1.8	7.98/7.41	16.1
7x2.5/16	cl.5	0.7	1.8	7.98/1.15	17.2
7x4/10	cl.5	0.7	1.8	4.95/1.83	18.3

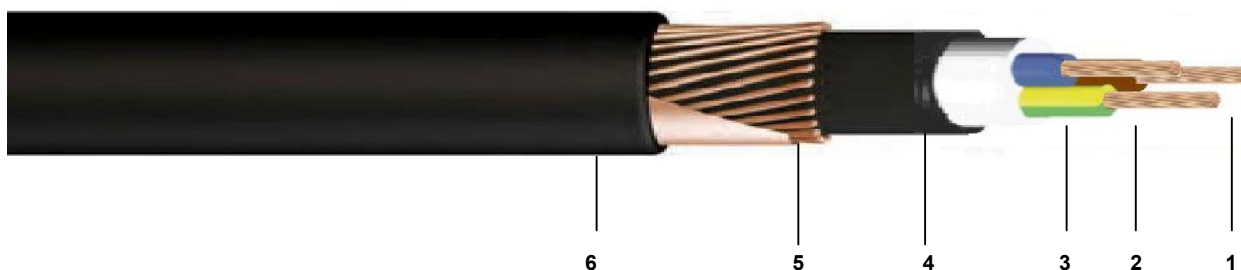
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Tipodimensi une cablu <i>Cable size</i>	Tip conductor <i>Cond. type</i>	Grosime radial izolatie <i>Insulation's radial thickness</i>	Grosime radial manta <i>Sheath's radial thickness</i>	Rezistenta electrica maxima la 20°C <i>Max. resistance at 20°C</i>	Diametru exterior, inf <i>Outer diameter, inf</i>
		mm	mm	Ω/km	mm
7x4/16	cl.5	0.7	1.8	4.95/1.15	18.5
9x2.5/2.5	cl.5	0.7	1.8	7.98/7.41	19.6
10x1.5/4	cl.5	0.7	1.8	13.3/4.61	18.0
10x2.5/4	cl.5	0.7	1.8	7.98/4.61	19.6
12x1.5/4	cl.5	0.7	1.8	13.3/4.61	18.4
12x2.5/4	cl.5	0.7	1.8	7.98/4.61	20.1
14x1.5/4	cl.5	0.7	1.8	13.3/4.61	19.1
14x2.5/4	cl.5	0.7	1.8	7.98/4.61	20.9
16x2.5/6	cl.5	0.7	1.8	7.98/3.08	21.8
19x1.5/6	cl.5	0.7	1.8	13.3/3.08	20.7
19x2.5/6	cl.5	0.7	1.8	7.98/3.08	22.8

## Forma constructiva:



1	Conductoare multifilare flexibile	1	Flexible conductors
2	Conductoare izolate	2	Insulated conductors
3	Invelis comun extrudat sau din benzi	3	Filler
4	Manta interna	4	Inner sheath
5	Conductor concentric	5	Conductor concentric
6	Manta externa	6	Outer sheath