

N2XCH , C2XCH

Cablu de energie cu conductor concentric, cu izolare din polietilena reticulata si manta fara halogen cu rezistenta marita la propagarea flacarilor

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 preliminara Nr.125 / 2017, AFER Buc) Railway Technical Approval Certificate No 125/ 2017, AFER Buc Romania (faza preliminara)	Tambur/ drum

CARACTERISTICI		CHARACTERISTICS		
Utilizare: Cablurile 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 cablurile nu degaja gaze toxice sau corozive si au emisie redusa de fum. Cablurile 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 izolare	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.permissible 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	
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 reticulate (XLPE)	Insulation	Crosslinked polyethylene (XLPE)	
Umplutura	Material plastic fara halogeni	Filling	Halogen-free compound	
Manta interna	Poliolefina fara halogen, tip HM4.	Inner bedding	Halogen free polyolefine, HM4 type.	
Conductor concentric	Sarme de cupru + contraspira din Cu	Conductor concentric	Copper wires + counterhelix copper tape.	
Manta exterioara	Poliolefina fara halogen, tip HM4. Cabluri sunt cu intarziere marita la propagarea flacarilor conf. SR EN 60332-3-24/ cat C Corozivitatea gazelor de ardere conf. SR EN 50267-2-2 (SR CEI 60754-2) * pH ≥ 4.3 * Conductivitatea ≤ 10 μS.cm ⁻¹ Densitatea fumului, conf SR EN 61034-1 Permeabilitatea luminii: ≥ (50-70) %	Outer sheath	Halogen free polyolefin, HM4 type. Cables are extra flame retardant according to EN 60332-3-24/ Category C Corrosivity of gases evolved according SR EN 50267-2-2 (SR CEI 60754-2) * pH ≥ 4.3 * Conductivity: ≤ 10 μS.cm ⁻¹ 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: N2XCH 4x2,5/16 mm ² 0.6/1 kV ELECTROPLAST SA 00/0000 0000	Sheath marking	SC ELECTROPLAST SA, cable symbol, operational voltage, months, manufacture year, length mark. Example: N2XCH 4x2,5/16 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

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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

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</i>
		mm	mm	Ω/km	mm
1x25/16	rm	0.9	1.8	0.727	13.8
1x25/25	rm	0.9	1.8	0.727	14.2
1x50/50	rm	1.0	1.8	0.387	19.4
1x185/95	rm	1.6	1.9	0.268	29.1
1x240/120	rm	1.7	1.9	0.0754	30.7
1x300/150	rm	1.8	2.0	0.0601	33.7
2x1.5/1.5	re	0.7	1.8	12.2	12.2
2x2.5/2.5	re	0.7	1.8	7.41	13.5
2x4/4	re	0.7	1.8	4.61	14.1
2x6/6	re	0.7	1.8	3.08	15.3
2x10/10	re	0.7	1.8	1.83	17.6
2x16/16	re	0.7	1.8	1.15	19.4
2x25/16	rm	0.9	1.8	0.727	23.2
2x25/25	rm	0.9	1.8	0.727	23.6
2x35/16	rm	0.9	1.8	0.524	25.2
2x35/25	rm	0.9	1.8	0.524	25.6
3x1.5/1.5	re	0.7	1.8	0.387	12.5
3x2.5/1.5	re	0.7	1.8	7.41	13.3

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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</i>
		mm	mm	Ω/km	mm
3x4/4	re	0.7	1.8	4.61	14.5
3x6/6	re	0.7	1.8	3.08	15.7
3x10/10	re	0.7	1.8	1.83	18.1
3x16/16	re	0.7	1.8	1.15	19.9
3x25/16	rm	0.9	1.8	0.727	23.9
3x25/25	rm	0.9	1.8	0.727	24.3
3x35/16	sm	0.9	1.8	0.524	23.9
3x35+16/16	rm/re	0.9	1.8	0.524;1.15	27.1
4x1.5/1.5	re	0.7	1.8	12.1	13.4
4x2.5/2.5	re	0.7	1.8	7.41	14.9
4x4/4	re	0.7	1.8	4.61	15.6
4x6/6	re	0.7	1.8	3.08	17.0
4x10/10	re	0.7	1.8	1.83	19.6
4x16/16	re	0.7	1.8	1.15	21.8
4x25/16	rm	0.9	1.8	0.727	26.3
4x25/25	rm	0.9	1.8	0.727	26.8
4x35/16	sm	0.9	1.8	0.524	26.1
5x1.5/1.5	re	0.7	1.8	12.1	14.1
5x2.5/2.5	re	0.7	1.8	7.41	16.2
5x4/4	re	0.7	1.8	4.61	16.6
5x6/6	re	0.7	1.8	3.08	18.2
5x10/10	re	0.7	1.8	1.83	21.0
5x10/16	re	0.7	1.8	1.83	21
5x25/16	rm	0.9	1.8	0.727	28.6

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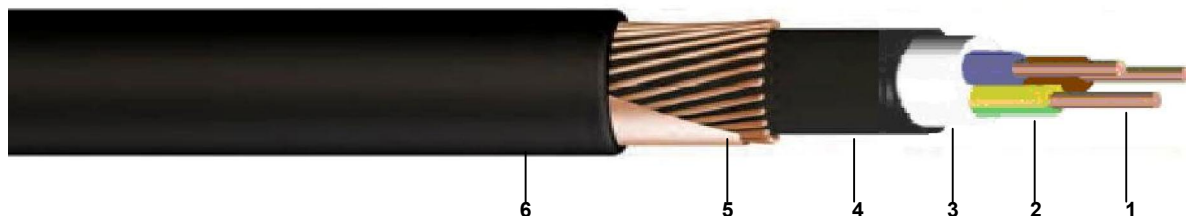
Tipodimensi une cablu <i>Cable size</i>	Tip conductor <i>Cond. type</i>	Grosime radial izolatie <i>Insulation's radial thickness</i>	Grosime radial manta <i>Sheath's radial thickness</i>	Rezistenta electrica maxima la 20°C <i>Max. resistance at 20°C</i>	Diametru exterior, inf <i>Outer diameter</i>
		mm	mm	Ω/km	mm
5x35/16	rm	0.9	2.0	0.524	31.6
5x50/50	rm	1.0	2.1	0.387	36.1
5x50/25	rm	1.0	2.1	0.387	35.6
7x1.5/1.5	re	0.7	1.8	12.1	15.0
7x2.5/2.5	re	0.7	1.8	7.41	16.1
7x2.5/16	re	0.7	1.8	7.41	17.2
7x4/10	re	0.7	1.8	4.61	18.3
7x4/16	re	0.7	1.8	4.61	18.5
9x2.5/2.5	re	0.7	1.8	7.41	19.6
10x1.5/4	re	0.7	1.8	12.1	18.0
10x2.5/4	re	0.7	1.8	7.41	19.6
12x1.5/4	re	0.7	1.8	12.1	18.4
12x2.5/4	re	0.7	1.8	7.41	20.1
14x1.5/4	re	0.7	1.8	12.1	19.1
14x2.5/4	re	0.7	1.8	7.41	20.9
16x2.5/6	re	0.7	1.8	7.41	21.8
19x1.5/6	re	0.7	1.8	12.1	20.7
19x2.5/6	re	0.7	1.8	7.41	22.8

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Forma constructiva:



1	Conductoare rotunde, unifilare (ru), rotund-multifilare (rm) sau sector-multifilare (sm) din cupru	1	Monowire or multiwire, solid (ru), stranded (rm) or sector-shaped (sm) copper 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