

C2XEALAbY(-F), C2XEALAbzY(-F)

Cablu de energie cu izolatie de polietilena reticulata si manta de PVC, ecranat cu sarme de AL, armat cu banda

Crosslinked polyethylene insulated and PVC sheathed power cables with aluminium wires screen and steel tape armour

Standard	Aprobari / Approvals	Ambalare / Packaging
ST 104 Rev.3: 2021; Standard de referinta: SR CEI 60502-1	Certificat de omologare tehnica feroviara Nr 73, 74/2022, AFER Buc Railway Technical Approval Certificate No. 73, 74/2022, AFER Buc Romania.	Tambur/ drum

CARACTERISTICI		CHARACTERISTICS	
Utilizare: Cabluurile sunt utilizate pentru transportul energiei electrice la statii de putere. Cabluurile trebuie protejate impotriva agentilor corozivi si a solventilor chimici Cabluurile sunt cu rezistenta la UV		Applicability: Power supply to power stations. The cables must be protected against: corozive chemicals and chemical solvents UV resistant cables	
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 (min) at:	la 20 °C - 10 ¹⁵ la 90°C - 10 ¹²
Rezistenta de izolatie la 20 °C	Min. 50 MΩ*km	Insulation resistance at 20 °C	Min. 50 MΩ*km
Constanta rezistentei de izolatie	90 °C: min 3.67 MΩ*km	Insulation resistance constant at	90 °C: min 3.67 MΩ*km
Factor reductor la 200mV/m si 50 Hz	max 0.7	Reduction factor	max 0.7
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) sau multifilar cl 2 (rm, sm) conf. SR EN 60228	Copper conductor	Monowire (re), or multiwire (rm, sm) cl 2 conductor according to SR EN 60228
Izolatie	XLPE	Insulation	XLPE
Umplutura	PVC sau benzi din material plastic	Filling	PVC or plastic tape
Manta interioara	PVC tip ST2 negru sau gri	Inner sheath	PVC type ST2 black or grey
Ecran	Sarme de Al	Screen	Aluminium wire screen
Armatura	Banda de otel laminata la rece nezincata (C2XEALAbY, C2XEALAbY-F) sau zincata (C2XEALAbzY, C2XEALAbzY-F), de grosime 0.2 sau 0.5 mm	Armor	Blank (C2XEALAbY, C2XEALAbY-F) or zinc-plated cold-rolled (C2XEALAbzY, C2XEALAbzY-F) steel tape 0.2 or 0.5 mm thickness

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Manta exterioara	PVC tip ST2 negru (C2XEALAzY, C2XEALAbzY) sau gri (C2XEALAzY-F, C2XEALAbzY-F) Cablurile sunt cu rezistenta sau rezistenta marita la propagarea flacarii conf. SR EN 60332-1-2 (C2XEALAbY, C2XEALAbzY), SR EN 60332-3-24 /cat C (C2XEALAbY-F, C2XEALAbzY-F)	Outer sheath	PVC type ST2 black (C2XEALAzY, C2XEALAbzY) or gray (C2XEALAzY-F, C2XEALAbzY-F) The cables are flame retardant or extra flame retardant acc. SR EN 60332-1-2 (C2XEALAbY, C2XEALAbzY), SR EN 60332-3-24 /cat C (C2XEALAbY-F, C2XEALAbzY-F)																								
Marcaj pe manta	SC ELECTROPLAST SA ,simbol cablu, tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj : C2XEALAbY-F 4x6 mm ² 0.6/1 kV ELECTROPLAST SA 09/2019 0030	Sheath marking	SC ELECTROPLAST SA , cable symbol, operational voltage, months, year of manufacture, mark length Example: C2XEALAbY-F 4x6 mm ² 0.6/1 kV ELECTROPLAST SA 09/2019 0030																								
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)	<table border="1"> <tr> <td>1</td> <td>negru / galben-verde</td> </tr> <tr> <td>2</td> <td>albastru, maro / galben-verde, negru, pt sect >10mm²</td> </tr> <tr> <td>3</td> <td>Maro, negru, gri / galben-verde, albastru, maro</td> </tr> <tr> <td>4</td> <td>Albastru, maro, negru, gri / galben-verde, maro, negru, gri</td> </tr> <tr> <td>5</td> <td>albastru, maro, negru, gri, negru / galben-verde, albastru, maro, negru, gri</td> </tr> <tr> <td>>5</td> <td>conductoare negre numerotate sau galben-verde si conductoare numerotate</td> </tr> </table>	1	negru / galben-verde	2	albastru, maro / galben-verde, negru, pt sect >10mm ²	3	Maro, negru, gri / galben-verde, albastru, maro	4	Albastru, maro, negru, gri / galben-verde, maro, negru, gri	5	albastru, maro, negru, gri, negru / galben-verde, albastru, maro, negru, gri	>5	conductoare negre numerotate sau galben-verde si conductoare numerotate	Color coding according SR HD 308 S2 (no. of conductors)	<table border="1"> <tr> <td>1</td> <td>black / yellow-green</td> </tr> <tr> <td>2</td> <td>Blue, brown / yellow-green, black for sect >10 mm²</td> </tr> <tr> <td>3</td> <td>Brown, black, grey / yellow-green, blue, brown</td> </tr> <tr> <td>4</td> <td>Blue, brown, black, grey / yellow-green, brown, black, grey</td> </tr> <tr> <td>5</td> <td>Blue, brown, black, grey, black / yellow-green, blue, brown, black, grey</td> </tr> <tr> <td>>5</td> <td>numbered black conductors or yellow-green and numbered conductors</td> </tr> </table>	1	black / yellow-green	2	Blue, brown / yellow-green, black for sect >10 mm ²	3	Brown, black, grey / yellow-green, blue, brown	4	Blue, brown, black, grey / yellow-green, brown, black, grey	5	Blue, brown, black, grey, black / yellow-green, blue, brown, black, grey	>5	numbered black conductors or yellow-green and numbered conductors
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Tipodimensiune cablu Cable size	Tip conductor Type of conductor	Grosime radiala izolatie Insulation radial thickness mm	Grosime radiala manta interna nom/min <i>Inner sheath radial thickness</i> mm	Grosime radiala nom/min manta exterioara <i>Outer sheath radial thickness nom/min</i> mm	Rezistenta electrica max, la 20°C Max. resistance at 20°C Ω/km	Diametru exterior inf Outer diameter Inf mm
1x50	rm	1.0	1.2	1.8/1.24	0.387	20.4
1x70	rm	1.1	1.2	1.8/1.24	0.268	22.2
1x95	rm	1.1	1.2	1.8/1.24	0.153	23.9
1x120	rm	1.2	1.2	1.8/1.24	0.153	25.6
1x150	rm	1.4	1.2	1.8/1.24	0.124	27.4
1x185	rm	1.6	1.2	1.9/1.32	0.0991	30.1
1x240	rm	1.7	1.2	2.0/1.4	0.0754	32.9
1x300	rm	1.8	1.2	2.1/1.48	0.0601	36.0
2x2.5	re	0.7	1.2	1.8/1.24	7.41	16.8
2x4	re	0.7	1.2	1.8/1.24	4.61	17.7
2x6	re	0.7	1.2	1.8/1.24	3.08	18.7
2x10	re	0.7	1.2	1.8/1.24	1.83	20.3
2x16	re	0.7	1.2	1.8/1.24	1.15	22.1
2x16	rm	0.7	1.2	1.8/1.24	1.15	22.9
2x25	rm	0.9	1.2	1.8/1.24	0.727	25.9
2x35	rm	0.9	1.2	1.9/1.32	0.524	28.1
2x50	rm	1.0	1.2	2.0/1.4	0.387	31.2
2x70	rm	1.1	1.2	2.2/1.56	0.268	36.3
2x95	rm	1.1	1.2	2.3/1.64	0.153	40.6
3x1.5	re	0.7	1.2	1.8/1.24	12.1	16.2
3x2.5	re	0.7	1.2	1.8/1.24	7.41	17.2
3x4	re	0.7	1.2	1.8/1.24	4.61	18.1
3x6	re	0.7	1.2	1.8/1.24	3.08	19.1

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3x10	re	0.7	1.2	1.8/1.24	1.83	20.8
3x16	re	0.7	1.2	1.8/1.24	1.15	22.6
3x25	rm	0.9	1.2	1.8/1.24	0.727	26.6
3x25+16	rm/re	0.9/0.7	1.2	1.8/1.24	0.727;1.15	27.8
3x35	rm	0.9	1.2	1.8/1.24	0.524	29.4
3x35+16	rm/re	0.9/0.7	1.2	1.8/1.24	0.524;1.15	31.0
3x50	sm	1.0	1.2	1.9/1.32	0.387	29.3
3x70	sm	1.1	1.2	2.1/1.48	0.268	33.0
3x95	sm	1.1	1.2	2.2/1.64	0.153	39.7
4x2.5	re	0.7	1.2	1.8/1.24	7.41	18.1
4x4	re	0.7	1.2	1.8/1.24	4.61	19.2
4x6	re	0.7	1.2	1.8/1.24	3.08	20.4
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4x50	sm	1.0	1.2	2.0/1.48	0.387	33.9
4x70	sm	1.1	1.2	2.2/1.56	0.268	39.7
5x2.5	re	0.7	1.2	1.8/1.24	7.41	19.1
5x4	re	0.7	1.2	1.8/1.24	4.61	20.2
5x6	re	0.7	1.2	1.8/1.24	3.08	21.6
5x10	re	0.7	1.2	1.8/1.24	1.83	23.8

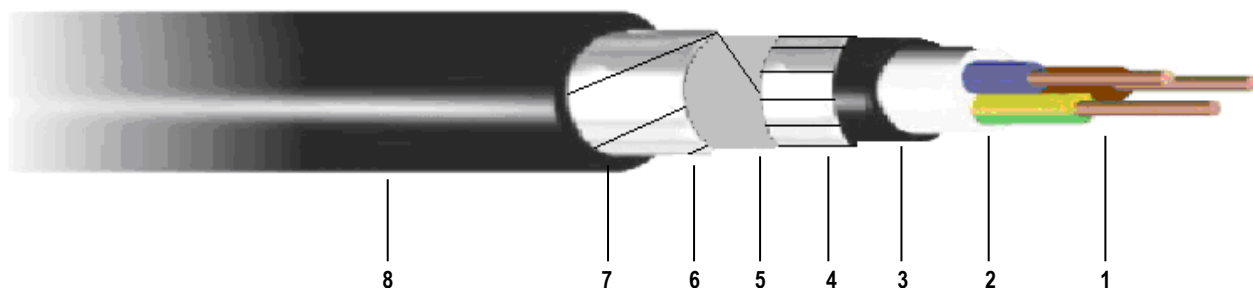
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Forma constructiva



1	Conductoare rotunde, unifilare sau multifilare, din cupru	1	Copper monowire or multiwire conductors
2	Conductoare izolate in PE(XLPE)	2	XLPE insulated conductors
3	Invelis comun extrudat sau din benzi	3	Filler
4	Manta interna din PVC	4	PVC inner sheath
5	Ecran din sarme de Al	5	Aluminum wire screen
6	Strat separator din PES	6	Plastic tape
7	Armatura din banda de otel sau otel zincat	7	Blank or zinc-plated cold-rolled steel tape
8	Manta exterioara din PVC	8	PVC outer sheath