

## AC2XEALAbY(-F), AC2XEALAbzY(-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 105 ; Standard de referinta: SR CEI 60502-1	Certificat de omologare tehnica feroviara Nr 126, 127/2014, AFER Buc Railway Technical Approval Certificate No 126, 127/2014, AFER Buc Romania	Tambur/ drum

CARACTERISTICI		CHARACTERISTICS	
<b>Utilizare:</b> 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		<b>Applicability:</b> Power supply to power stations. The cables must be protected against: corozive chemicals and chemical solvents UV resistant cables.	
<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	<b>Test voltage</b>	3.5 kV ac or 8.4 kV dc,5 min
<b>Rezistivitatea de volum specifica, min,</b>	la 20 °C -10 <sup>15</sup> la 90°C -10 <sup>12</sup>	<b>Volume resistivity (min) at:</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>Factor reductor la 200mV/m si 50 Hz</b>	max 0.7	<b>Reduction factor</b>	max 0.7
<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>	-40°C ÷ +90°C	<b>Normal operational temperature range</b>	-40°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 aluminiu</b>	Conductor unifilar (ru) sau multifilar cl 2 (rm, sm) conf. SR EN 60228	<b>Alluminium conductor</b>	Solid (ru), stranded (rm) or sector-shaped (sm) conductors, cl.2, according to SR EN 60228
<b>Izolatie</b>	XLPE	<b>Insulation</b>	XLPE
<b>Umplutura</b>	PVC sau benzi din material plastic	<b>Filling</b>	PVC or plastic tape
<b>Manta interioara</b>	PVC tip ST2 negru sau gri	<b>Inner sheath</b>	PVC type ST2 black or grey
<b>Ecran</b>	Sarme de Al	<b>Screen</b>	Aluminium wire screen
<b>Armatura</b>	Banda de otel laminata la rece nezincata (AC2XEALAbY, AC2XEALAbY-F) sau zincata (AC2XEALAbzY, AC2XEALAbzY-F), de grosime 0.2 sau 0.5 mm	<b>Armor</b>	Blank (AC2XEALAbY, AC2XEALAbY-F) or zinc-plated cold-rolled (AC2XEALAbzY, AC2XEALAbzY-F) steel tape 0.2 or 0.5 mm thickness

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<b>Manta exterioara</b>	PVC tip ST2 negru (AC2XEALAzY, AC2XEALAbzY) sau gri (AC2XEALAzY-F, AC2XEALAbzY-F) Cablurile sunt cu rezistenta sau rezistenta marita la propagarea flacarii conf. SR EN 60332-1-2 (AC2XEALAbY, AC2XEALAbzY), SR EN 60332-3-24 /cat. C (AC2XEALAbY-F, AC2XEALAbzY-F)	<b>Outer sheath</b>	PVC type ST2 black (AC2XEALAzY, AC2XEALAbzY) or gray (AC2XEALAzY-F, AC2XEALAbzY-F) The cables are flame retardant or extra flame retardant acc SR EN 60332-1-2 (AC2XEALAbY, AC2XEALAbzY), SR EN 60332-3-24 /cat.C (AC2XEALAbY-F, AC2XEALAbzY-F)																								
<b>Marcaj pe manta</b>	SC ELECTROPLAST SA , simbol cablu , tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj : AC2XEALAbY-F 4x6 mm <sup>2</sup> 0.6/1 kV ELECTROPLAST SA 06/2013 0030	<b>Sheath marking</b>	SC ELECTROPLAST SA , cable symbol, operational voltage, months, year of manufacture, mark length Example: AC2XEALAbY-F 4x6 mm <sup>2</sup> 0.6/1 kV ELECTROPLAST SA 06/2013 0030																								
<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 30 N/mm <sup>2</sup>	<b>Max. tensile strain during installation</b>	Max 30 N/mm <sup>2</sup>																								
<b>Cod de culori conf SR HD 308 S2 (nr. de conductoare)</b>	<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 &gt;10mm<sup>2</sup></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>&gt;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 <sup>2</sup>	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	<b>Color coding according SR HD 308 S2 (no. of conductors)</b>	<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&gt;10 mm<sup>2</sup></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>&gt;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 <sup>2</sup>	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 radială izolație  Insulation radial thickness	Grosime radială manta internă nom/min  Inner sheath radial thickness	Grosime radială nom/min manta exterioară  Outer sheath radial thickness nom/min	Rezistență electrică max, la 20°C  Max. resistance at 20°C	Diametru exterior inf  Outer diameter Inf
		mm	mm	mm	Ω/km	mm
1x50	rm	1.0	1.2	1.8/1.24	0.641	20.4
1x70	rm	1.1	1.2	1.8/1.24	0.443	22.2
1x95	rm	1.1	1.2	1.8/1.24	0.320	23.9
1x120	rm	1.2	1.2	1.8/1.24	0.253	25.6
1x150	rm	1.4	1.2	1.8/1.24	0.206	27.4
1x185	rm	1.6	1.2	1.9/1.32	0.164	30.1
1x240	rm	1.7	1.2	2.0/1.4	0.125	32.9
1x300	rm	1.8	1.2	2.1/1.48	0.100	36.0
2x4	ru	0.7	1.2	1.8/1.24	-	17.7
2x6	ru	0.7	1.2	1.8/1.24	-	18.7
2x10	ru	0.7	1.2	1.8/1.24	3.08	20.3
2x16	ru	0.7	1.2	1.8/1.24	1.91	22.1
2x16	rm	0.7	1.2	1.8/1.24	1.91	22.9
2x25	rm	0.9	1.2	1.8/1.24	1.20	25.9
2x35	rm	0.9	1.2	1.9/1.32	0.868	28.1
2x50	rm	1.0	1.2	2.0/1.4	0.641	31.2
2x70	rm	1.1	1.2	2.2/1.56	0.443	36.3
2x95	rm	1.1	1.2	2.3/1.64	0.320	40.6
3x4	ru	0.7	1.2	1.8/1.24	-	18.1
3x6	ru	0.7	1.2	1.8/1.24	-	19.1
3x10	ru	0.7	1.2	1.8/1.24	3.08	20.8
3x16	ru	0.7	1.2	1.8/1.24	1.91	22.7
3x25	rm	0.9	1.2	1.8/1.24	1.20	26.7
3x25+16	rm/ru	0.9/0.7	1.2	1.8/1.24	1.20;1.91	27.8
3x35	rm	0.9	1.2	1.8/1.24	0.868	29.4

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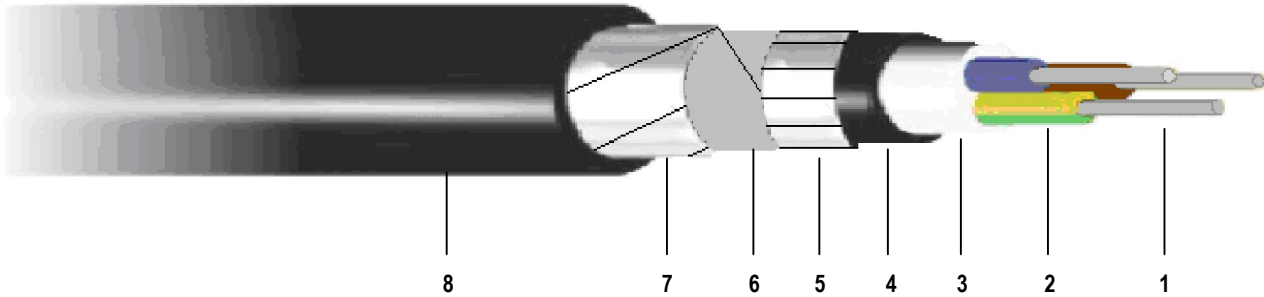
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Tipodimensiune cablu  Cable size	Tip conductor  Type of conductor	Grosime radiala izolatie  Insulation radial thickness  mm	Grosime radiala manta interna nom/min  Inner sheath radial thickness  mm	Grosime radiala nom/min manta exterioara  Outer sheath radial thickness nom/min  mm	Rezistenta electrica max, la 20°C  Max. resistance at 20°C  Ω/km	Diametru exterior inf  Outer diameter Inf  mm
3x35+16	rm/ru	0.9/0.7	1.2	1.8/1.24	0.868;1.91	31.0
3x50	sm	1.0	1.2	1.9/1.32	0.641	29.3
3x70	sm	1.1	1.2	2.1/1.48	0.443	33.0
3x95	sm	1.1	1.2	2.2/1.64	0.320	39.7
4x4	ru	0.7	1.2	1.8/1.24	-	19.2
4x6	ru	0.7	1.2	1.8/1.24	-	20.4
4x10	ru	0.7	1.2	1.8/1.24	3.08	22.3
4x16	ru	0.7	1.2	1.8/1.24	1.91	24.5
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4x25	rm	0.9	1.2	1.8/1.24	1.20	29.3
4x35	rm	0.9	1.2	1.8/1.24	0.868	32.1
4x50	sm	1.0	1.2	2.0/1.48	0.641	33.9
4x70	sm	1.1	1.2	2.2/1.56	0.443	39.7
5x4	ru	0.7	1.2	1.8/1.24	-	20.2
5x6	ru	0.7	1.2	1.8/1.24	-	21.6
5x10	ru	0.7	1.2	1.8/1.24	3.08	23.8
5x16	ru	0.7	1.2	1.8/1.24	1.91	26.2
5x25	rm	0.9	1.2	2.0/1.4	1.2	31.7
5x35	rm	0.9	1.2	2.1/1.48	0.868	36.1

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### Forma constructiva



1	Conductoare rotunde, unifilare sau multifilare, din aluminiu	1	Solid, stranded or sector-shaped aluminium conductors
2	Conductoare izolate	2	Insulated conductors
3	Invelis comun extrudat sau din benzi	3	Filler
4	Manta interna	4	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	8	Outer sheath