

AC2XEALAb(z)2Y, AC2XEALAb(z)2Y-Fr1, AC2XEALAb(z)2Y-Fr3

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

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

Standard	Aprobari / Approvals	Ambalare / Packaging
ST 163 ; Standard de referinta: SR CEI 60502-1	Certificat de omologare tehnica feroviara Nr 28, 29/2014, AFER Buc Railway Technical Approval Certificate No. 28, 29/2014, 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
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 (200mV, 50Hz)	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 aluminiu	Conductor unifilar (ru) sau multifilar cl 2 (rm, sm) conf. SR EN 60228	Alluminium conductor	Solid (ru), concentrically stranded conductor (rm) or sector-shaped (sm) cl 2, according to SR EN 60228
Izolatie	XLPE	Insulation	XLPE
Umplutura	PVC sau benzi din material plastic	Filling	PVC or plastic tape
Manta interioara	PE	Inner sheath	PE
Ecran	Sarme de Al	Screen	Aluminium wire screen
Armatura	Banda de otel laminata la rece nezincata (AC2XEALAb2Y, AC2XEALAb2Y-Fr1,-Fr3) sau zincata (AC2XEALAbzY, AC2XEALAbzY-Fr1,-Fr3), de grosime 0.2 sau 0.5 mm	Armor	Blank (AC2XEALAb2Y, AC2XEALAb2Y-Fr1,-Fr3) or zinc-plated cold-rolled (AC2XEALAbzY, AC2XEALAbzY-Fr1,-Fr3) steel tape 0.2 or 0.5 mm thickness.

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Manta exterioara	PE negru (AC2XEALAz2Y,AC2XEALAbz2Y) sau gri (AC2XEALAz2Y-Fr1, AC2XEALAbz2Y-Fr3) Cablurile sunt cu rezistenta sau rezistenta marita la propagarea flacarii conf SR EN 60332-1-2(AC2XEALAb2Y-Fr1, AC2XEALAbzY-Fr1) ,SR EN 60332-3-24 /cat C (AC2XEALAb2Y-Fr3, AC2XEALAbz2Y-Fr3)	Outer sheath	PE black (AC2XEALAz2Y,AC2XEALAbz2Y) or gray (AC2XEALAz2Y-Fr1,AC2XEALAbzY-Fr3) The cables are flame retardant or extra flame retardant acc SR EN 60332-1-2 (AC2XEALAb2Y-Fr1, AC2XEALAbzY-Fr1) ,SR EN 60332-3-24 /cat C (AC2XEALAb2Y-Fr3, AC2XEALAbz2Y-Fr3)																								
Marcaj pe manta	SC ELECTROPLAST SA ,simbol cablu ,tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj : AC2XEALAb2Y 4x6 mm ² 0.6/1 kV ELECTROPLAST SA 06/2013 0030	Sheath marking	SC ELECTROPLAST SA , cable symbol , operational voltage, months , manufacture year, length marking Example: AC2XEALAb2Y 4x6 mm ² 0.6/1 kV ELECTROPLAST SA 06/2013 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 30 N/mm ²	Max. tensile strain during installation	Max. 30 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, 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, 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 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
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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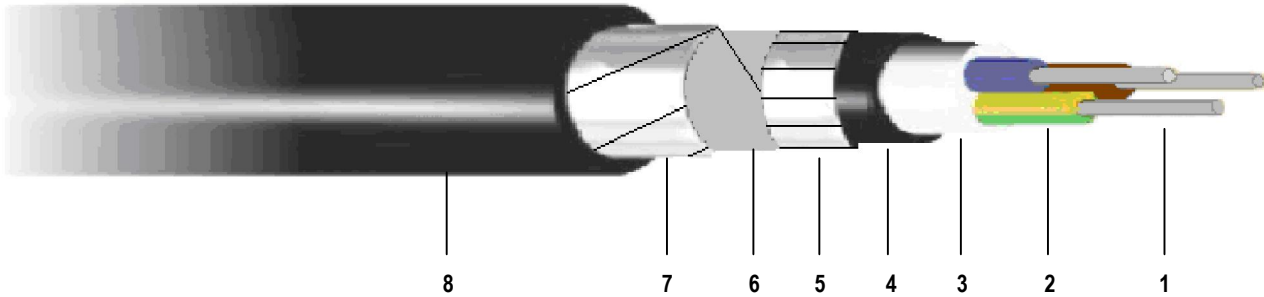
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Tipodimensiune cablu Cable size	Tip conductor Type of conductor	Grosime radiala izolatie Insulation radial thickness mm	Grosime radiala manta interna nom/min Inner sheath radial thickness mm	Grosime radiala nom/min manta exterioara Outer sheath radial 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
4x16	rm	0.7	1.2	1.8/1.24	1.91	25.5
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