

Cablu de energie cu izolatie de polietilena reticulata si manta de PE, ecranat cu sarme de AL, armat cu banda
Crosslinked polyethylene insulated and polyethylene sheathed power cables with aluminium wires screen and steel tape armour

Standard	Aprobari / Approvals	Ambalare / Packaging
ST 163:2014; Standard de referinta SR CEI 60502-1 ST 163:2014, SR CEI 60502-1 (where applicable)	Certificat de omologare tehnica feroviara Nr. 28, 29/2016 ,AFER Buc Railway Technical Approval Certificate Nr. 28, 29/2016, AFER Buc Romania	Tambur/ drum

CARACTERISTICI		CHARACTERISTICS	
Utilizare: Cablurile sunt utilizate pentru transportul energiei electrice la statii de putere. Cablurile sunt cu rezistenta la UV		Applicability: Power supply to power stations. UV resistant cables	
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	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 at , min	to 20 °C-10 ¹⁵ to 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 ,min	90 °C:min 3.67 MΩ*km	Insulation resistance constant, min	To 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
Rezistenta la propagarea flacarii	Cablurile tip C2XEAIAb2Y -Fr1 sunt cu rezistenta la propagarea flacarii conf. SR EN 60332-1-2 Cablurile tip C2XEAIAb2Y -Fr3 sunt cu rezistenta la propagarea flacarii conf. SR EN 60332-3-24/ cat C	Flame retardant	C2XEAIAb2Y- FR1 - flame retardant cables according to SR EN 60332-1-2 C2XEAIAb2Y- FR3 - flame retardant cables according SR EN 60332-3-24/ cat. C
Cabluri cu manta fara halogen	C2XEAIAb2Y-Fr3	Halogen-free cable sheath	C2XEAIAb2Y-Fr3
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	Polietilena reticulata	Insulation	Cross-linked polyethylene XLPE
Umplutura	PVC, PE sau benzi din material plastic	Filling	PVC,PE or plastic tape
Manta interioara	PE negru	Inner sheath	PE black
Ecran	Sarme de Al	Screen	Aluminium wire screen
Armatura	Banda de otel laminata la rece nezincata (C2XEALAb2Y) sau zincata (C2XEALAbz2Y, de grosime 0.2 sau 0.5 mm	Armor	Blank (C2XEALAb2Y,) or zinc-plated cold-rolled (C2XEALAbz2Y) steel tape 0.2 or 0.5 mm thick

C2XEAIAb(z)2Y, C2XEAIAb(z)2Y-Fr1 , C2XEAIAb(z)2Y-Fr3
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Manta exterioara	PE negru	Outer sheath	PE black	
Marcaj pe manta	SC ELECTROPLAST SA ,simbol cablu ,tensiune de lucru, luna, an de fabricatie, marcaj de lungime . Exemplu de marcaj : C2XEALAb2Y 4x6 mm ² 0.6/1 kV ELECTROPLAST SA 03/2015 0030	Sheath marking	SC ELECTROPLAST SA, cable symbol, operational voltage, month, manufacture year, mark length. Example: C2XEALAb2Y 4x6 mm ² 0.6/1 kV ELECTROPLAST SA 03/2015 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)	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
	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 numerotate	>5	numbered black conductors or yellow-green and numbered conductors
		Color coding according SR HD 308 S2 (no. of conductors)		

Tipodimensiune cablu	Tip conductor	Grosime radiala izolatie	Grosime radiala manta interna nom/min	Grosime radiala nom/min manta exterioara	Rezistenta electrica max, la 20°C	Diametru exterior inf
Cable size	Type of conductor	Insulation radial thickness	Inner sheath radial thickness	Outer sheath radial thickness nom/min	Max. resistance at 20°C	Outer diameter Inf
		mm	mm	mm	Ω/km	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

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Tipodimensiune cablu	Tip conductor	Grosime radiala izolatie	Grosime radiala manta interna nom/min	Grosime radiala nom/min manta exterioara	Rezistenta electrica max, la 20°C	Diametru exterior inf
Cable size	Type of conductor	Insulation radial thickness	Inner sheath radial thickness	Outer sheath radial thickness nom/min	Max. resistance at 20°C	Outer diameter Inf mm
		mm	mm	mm	Ω/km	
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
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
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	22.7
3x25	rm	0.9	1.2	1.8/1.24	0.727	26.7
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

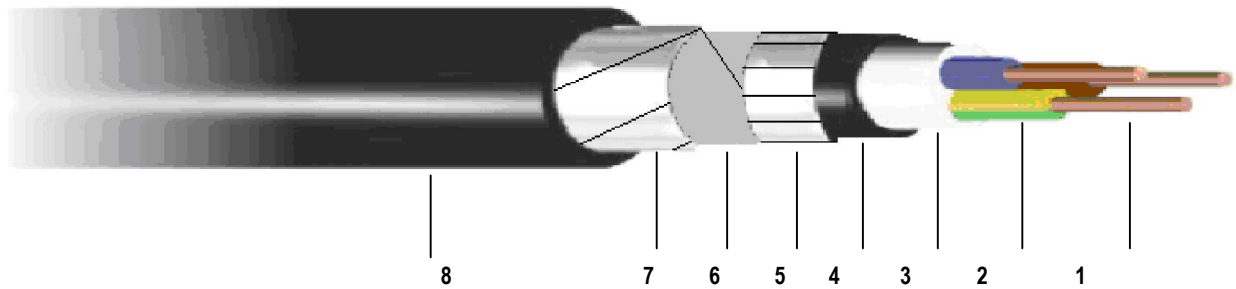
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Tip dimensiune cablu	Tip conductor	Grosime radiala izolatie	Grosime radiala manta interna nom/min	Grosime radiala nom/min manta exterioara	Rezistenta electrica max, la 20°C	Diametru exterior inf
<i>Cable size</i>	<i>Type of conductor</i>	<i>Insulation radial thickness</i>	<i>Inner sheath radial thickness</i>	<i>Outer sheath radial thickness nom/min</i>	<i>Max. resistance at 20°C</i>	<i>Outer diameter Inf</i>
		mm	mm	mm	Ω/km	mm
4x6	re	0.7	1.2	1.8/1.24	3.08	20.4
4x10	re	0.7	1.2	1.8/1.24	1.83	22.3
4x16	re	0.7	1.2	1.8/1.24	1.15	24.5
4x16	rm	0.7	1.2	1.8/1.24	1.15	25.5
4x25	rm	0.9	1.2	1.8/1.24	0.727	29.3
4x35	rm	0.9	1.2	1.8/1.24	0.524	32.1
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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5x25	rm	0.9	1.2	2.0/1.4	0.727	31.7
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Forma constructiva:



1	Conductoare rotunde, unifilare sau multifilare, din cupru	1	Copper monowire or multiwire 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