

CYEALAbY(-F), CYEALAbzY(-F)

**Cablu de energie cu izolatie de PVC, ecranat
cu sarme de aluminiu, armat cu band**

**PVC insulated and sheathed power
cable with aluminium wire screen and
tape armoring**

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: Cablurile sunt utilizate pentru transportul energiei electrice la statii de putere. Cablurile trebuie protejate impotriva agentilor corozivi si a solventilor chimici Cablurile 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
Tensiune de incercare	3.5 kV ca sau 8.4 kV cc, 5 min
Rezistivitatea de volum specifica, min	la 20 °C-10 ¹³ la 70°C-10 ¹⁰
Constanta rezistentei de izolatie	20 °C: min 3.67 MΩ*km 70 °C: min 0.037 MΩ*km
Factor reductor la 200mV/m si 50 Hz	max 0.7
Temperatura minima de instalare pe cablu	-5°C
Temperatura maxima de lucru	+70°C
Temperatura maxima de scurt-circuit	+160°C (max 5 sec)
Temperatura de utilizare normala	-40°C ÷ +70°C
Temperatura minima de montaj	-5°C
Temperatura masurata pe manta	-10°C ÷ +70°C
Conformitate RoHS	Da
Conformitate REACH	Da
Conductor de cupru	Conductor unifilar (re) sau multifilar cl 2 (rm) conf SR EN 60228
Izolatie	PVC tip PVC/A
Umplutura	PVC sau benzi din material plastic
Manta interioara	PVC tip ST1 negru sau gri
Ecran	Sarme de Al
Armatura	Banda de otel laminata la rece nezincata (CYEALAbY, CYEALAbY-F) sau zincata (CYEALAbzY, CYEALAbzY-F), de grosime 0.2 sau 0.5 mm
	Armor
	Blank (CYEALAbY, CYEALAbY-F) or zinc-plated cold-rolled (CYEALAbzY, CYEALAbzY-F) steel tape 0.2 or 0.5 mm thickness

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Manta exterioara	PVC tip ST1 negru (CYEALAzY,CYEALAbzY) sau gri (CYEALAzY-F,CYEALAbzY-F) Cablurile sunt cu rezistenta sau rezistenta marita la propagarea flacarii conf SR EN 60332-1-2(CYEALAbY, CYEALAbzY) ,SR EN 60332-3-24 /cat C (CYEALAbY-F, CYEALAbzY-F)	Outer sheath	PVC type ST1 black (CYEALAzY,CYEALAbzY) or gray (CYEALAzY-F,CYEALAbzY-F) The cables are flame retardant or extra flame retardant acc SR EN 60332-1-2 (CYEALAbY, CYEALAbzY) ,SR EN 60332-3-24 /cat C (CYEALAbY-F, CYEALAbzY-F)	
Marcaj pe manta	SC ELECTROPLAST SA ,simbol cablu ,tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj : CYEALAbY-F 4x35 mm ² 0.6/1 kV ELECTROPLAST SA 09/2012 0030	Sheath marking	SC ELECTROPLAST SA , cable symbol , operational voltage, , months ,year of manufacture, mark length Example: CYEALAbY-F 4x35 mm ² 0.6/1 kV ELECTROPLAST SA 09/2012 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)		

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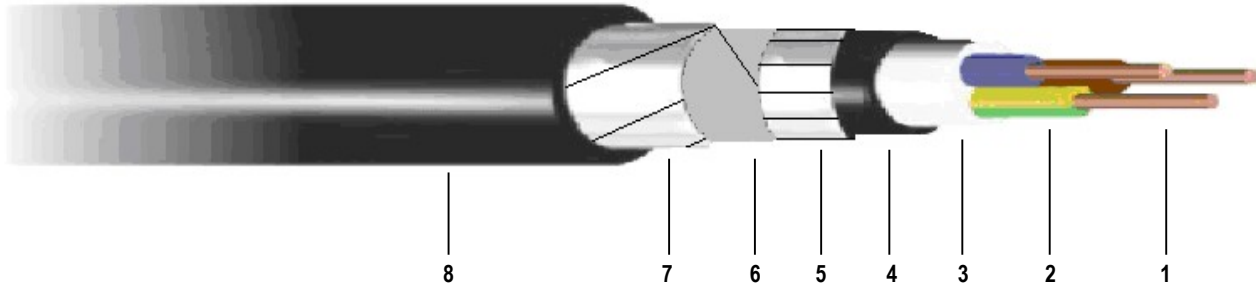
Tipodimensiune cablu	Tip conductor	Grosime radiala izolatie,	Grosime radiala manta interna nom/min	Grosime radiala nom/min manta exterioara	Rezistenta electrica max,la 20°C	Diametru exterior inf
<i>Cable size</i>	<i>Type of conductor</i>	<i>Insulation radial thickness</i>	<i>Inner sheath radial thickness nominal</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
1x50	rm	1.4	1.2	1.8/1.24	0.387	21.3
1x70	rm	1.4	1.2	1.8/1.24	0.268	22.9
1x95	rm	1.6	1.2	1.8/1.24	0.193	25.0
1x120	rm	1.6	1.2	1.8/1.24	0.153	26.5
1x150	rm	1.8	1.2	1.8/1.24	0.124	28.3
1x185	rm	2.0	1.2	2.0/1.4	0.0991	31.2
1x240	rm	2.2	1.2	2.1/1.48	0.0754	34.2
2x1.5	re	0.8	1.2	1.8/1.24	12.2	16.5
2x2.5	re	0.8	1.2	1.8/1.24	7.41	17.6
2x4	re	1.0	1.2	1.8/1.24	4.61	18.9
2x6	re	1.0	1.2	1.8/1.24	3.08	19.9
2x10	re	1.0	1.2	1.8/1.24	1.83	21.5
2x16	re	1.0	1.2	1.8/1.24	1.15	23.3
2x25	rm	1.2	1.2	1.8/1.24	0.727	27.1
2x35	rm	1.2	1.2	1.9/1.32	0.524	29.3
2x50	rm	1.4	1.2	2.0/1.4	0.387	33.0
2x70	rm	1.4	1.2	2.1/1.48	0.268	36.7
2x95	rm	1.6	1.2	2.2/1.56	0.193	37.9
3x1.5	re	0.8	1.2	1.8/1.24	12.2	16.9
3x2.5	re	0.8	1.2	1.8/1.24	7.41	18.0
3x4	re	1.0	1.2	1.8/1.24	4.61	19.3
3x6	re	1.0	1.2	1.8/1.24	3.08	20.4
3x10	re	1.0	1.2	1.8/1.24	1.83	22.1
3x16	re	1.0	1.2	1.8/1.24	1.15	24.0
3x25	rm	1.2	1.2	1.9/1.32	0.727	28.1
3x25+16	rm/re	1.2;1.0	1.2	1.9/1.32	0.727;1.15	29.7
3x35	rm	1.2	1.2	2.0/1.4	0.524	30.7
3x35+16	rm/re	1.2;1.0	1.2	1.8/1.24	0.524;1.15	33.4
3x50	sm	1.4	1.2	2.0/1.4	0.387	33.2
3x70	sm	1.4	1.2	2.2/1.56	0.268	38.2
3x95	sm	1.6	1.2	2.3/1.64	0.193	41.5
4x1.5	re	0.8	1.2	1.8/1.24	12.2	17.7
4x2.5	re	0.8	1.2	1.8/1.24	7.41	19.1
4x4	re	1.0	1.2	1.8/1.24	4.61	20.6
4x6	re	1.0	1.2	1.8/1.24	3.08	21.6
4x10	re	1.0	1.2	1.8/1.24	1.83	23.8
4x16	re	1.0	1.2	1.8/1.24	1.15	26.0
4x25	rm	1.2	1.2	2.0/1.4	0.727	31.0
4x35	rm	1.2	1.2	2.1/1.48	0.524	33.9
4x50	sm	1.2	1.2	2.0/1.4	0.387	33.8
5x1.5	re	0.8	1.2	1.8/1.24	12.2	18.6
5x2.5	re	0.8	1.2	1.8/1.24	7.41	20.1
5x4	re	1.0	1.2	1.8/1.24	4.61	21.8
5x6	re	1.0	1.2	1.8/1.24	3.08	23.2
5x10	re	1.0	1.2	1.8/1.24	1.83	25.4
5x16	re	1.0	1.2	1.9/1.32	1.15	29.1
5x25	rm	1.2	1.2	2.0/1.4	0.727	33.3
5x35	rm	1.2	1.2	2.2/1.56	0.524	37.9

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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