

**Cablu de semnalizare ecranat, armat,
cu izolatie si manta de polietilena**

**Screened-armored signal cable,
polyethylene insulated and sheathed**

Standard	Aprobari / Approvals	Ambalare / Packaging	
ST 164: 2014; Standard de referinta: SR CEI 60502-1	Certificat de omologare tehnica feroviara Nr. 26, 27/2016, AFER Buc Railway Technical Approval Certificate Nr 26, 27/2016, AFER Buc Romania	Tambur/ drum	

CARACTERISTICI		CHARACTERISTICS	
Utilizare: Cablurile se utilizeaza pentru comanda si semnalizare in instalatii electroenergetice si similare Cablurile pot fi pozate in spatii inchise si deschise, in pamant, in canale, in beton Cablurile sunt cu rezistenta la UV		Applicability : Control and transmittal of signals in power generation & supply facilities and similar The cables can be installed in open or confined areas, underground, in sewers, in concrete. UV resistant cables	
Tensiune nominala U₀/U	0.6/1 kV	Rated voltage U₀/U	0.6/1 kV
Tensiune de incercare	4 h: 2.4 kV c.a sau 6 kV c.c 5 min: 3.5 kV c.a sau 8.5 kV c.c	Test voltage	4 h: 2.4 kV ac or 6 kV dc 5 min: 3.5 kV ac or 8.5 kV dc
Rezistivitatea de volum la 20°C	1x10 ¹⁵ Ω*cm	Volume resistivity at 20°C	1x10 ¹⁵ Ω*cm
Factor reductor la 200mV/m si 50 Hz	max 0.7	Reduction factor	max 0.7
Capacitate la 800 Hz	Max 100 nF/km	Capacity at 800 Hz	Max 100 nF/km
Temperatura minima de instalare pe cablu	-5°C	The minim temperature of de cable during installation	-5°C
Temperatura maxima de lucru	+70°C	Max.permissible operating temperature	+70°C
Temperatura maxima de scurt-circuit	+130°C (max 5sec)	Max. short-circuit temperature	+130°C (max 5sec)
Temperatura de utilizare normala	-40°C ÷ +70°C	Normal operational temperature range	-40°C ÷ +70°C
Temperatura minima de montaj	-5°C	Temperature during installation	-5°C
Temperatura masurata pe manta	-10°C ÷ +70°C	Temperature measured on the sheath	-10°C ÷ +70°C
Conformitate RoHS	Da	RoHS compliancy	Yes
Conformitate REACH	Da	REACH compliancy	Yes
Rezistenta la propagarea flacarii	Cablurile tip CS2YEAIAb2Y-Fr1 sunt cu rezistenta la propagarea flacarii conf. SR EN 60332-1-2 Cablurile tip CS2YEAIAb2Y-Fr3 sunt cu rezistenta la propagarea flacarii conf. SR EN 60332-3-24/ cat. C	Flame retardant	CS2YEAIAb2Y- FR1 - are flame retardant cables, test according to SR EN 60332-1-2 CS2YEAIAb2Y- FR3 – are extra flame retardant cables, test according SR EN 60332-3-24/ Cat. C
Cabluri de semnalizare cu manta fara halogeni	CS2YEAIAb2Y-Fr3	Signal cables sheathed halogen-free	CS2YEAIAb2Y-Fr3
Conductor de cupru	Conductor unifilar (ru), SR EN 60228	Copper conductor	Solid conductor (ru), SR EN 60228
Izolatie	Polietilena	Insulation	Polyethylene
Umplutura	PVC extrudat sau benzi din material plastic.	Filling	Extruded PVC or plastic tape
Manta interioara	Polietilena	Inner sheath	Polyethylene
Ecran	Ecran din sarme de Al	Screen	Aluminium wire screen
Armatura	Banda de otel laminata la rece nezincata (CS2YEAIAb2Y) sau zincata (CS2YEAIAbz2Y), cu grosimea de 0.2 mm.	Armor	Blank (CS2YEAIAb2Y) or zinc-plated cold-rolled (CS2YEAIAbz2Y) steel tape, 0.2 mm thickness.

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Manta exterioara	Polietilena (PE), neagra.	Outer sheath	Polyethylene (PE), black (CS2YEALAb2Y, CS2YEALAbz2Y)
Marcaj pe manta	SC ELECTROPLAST SA, simbol cablu ,tensiune de lucru, luna, an de fabricatie, marcaj de lungime Exemplu de marcaj: CS2YEALAb2Y 37x1.5 mm ² 0.6/1 kV ELECTROPLAST SA 02/2015 0050	Sheath marking	SC ELECTROPLAST SA, cable symbol, operational voltage, months, manufacture year, mark length Example: CS2YEALAb2Y 37x1.5 mm ² 0.6/1 kV ELECTROPLAST SA 02/2015 0050
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 ST 164: 2014	Color coding	According ST 164: 2014

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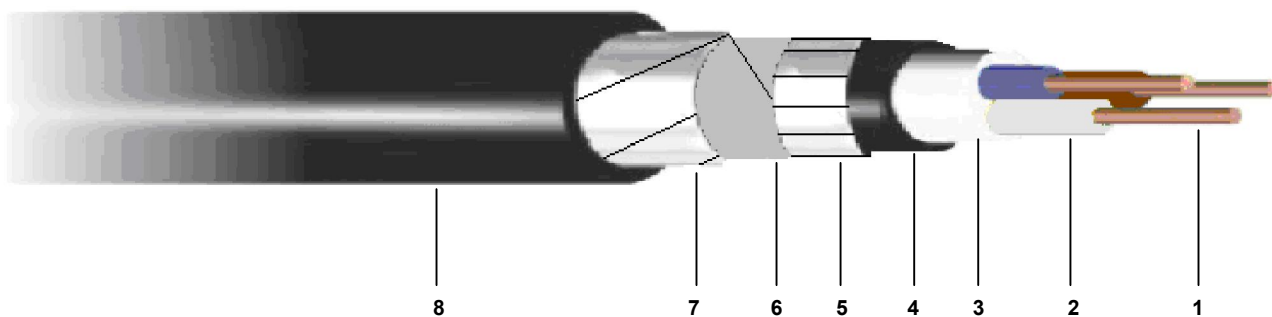
Tipodimensiune cablu <i>Cable size</i>	Tip conductor <i>Conductor type</i>	Grosime radiala izolatie <i>Insulation radial thickness</i>	Grosime radiala manta <i>Sheath radial thickness mm</i>		Diametru exterior nominal <i>Nominal outer diameter</i>	Rezistenta electrica, max la 20°C <i>Max. resistance at 20°C</i>	Masa inf <i>Mass inf</i>
			mm	Int.			
2x1	ru	0.6	0.8	1.4	13.7	18.1	304
2x1.5	ru	0.7	0.8	1.4	14.5	12.1	352
2x2.5	ru	0.7	0.8	1.4	15.3	7.41	400
2x4	ru	0.8	0.8	1.4	16.6	4.61	483
2x6	ru	0.8	0.8	1.4	17.7	3.08	568
3x1	ru	0.6	0.8	1.4	14.0	18.1	319
3x1.5	ru	0.7	0.8	1.4	14.9	12.1	372
3x2.5	ru	0.7	0.8	1.4	15.7	7.41	437
3x4	ru	0.8	0.8	1.4	17.2	4.61	533
3x6	ru	0.8	0.8	1.4	18.3	3.08	643
4x1	ru	0.6	0.8	1.4	14.6	18.1	358
4x1.5	ru	0.7	0.8	1.4	15.6	12.1	421
4x2.5	ru	0.7	0.8	1.4	16.6	7.41	492
4x4	ru	0.8	0.8	1.4	18.2	4.61	611
4x6	ru	0.8	0.8	1.4	19.5	3.08	748
5x1	ru	0.6	0.8	1.4	15.3	18.1	393
5x1.5	ru	0.7	0.8	1.4	16.4	12.1	466
5x2.5	ru	0.7	0.8	1.4	17.5	7.41	557
5x4	ru	0.8	0.8	1.4	19.3	4.61	702
5x6	ru	0.8	0.8	1.4	20.8	3.08	861
7x1	ru	0.6	0.8	1.4	16.0	18.1	418
7x1.5	ru	0.7	0.8	1.4	17.3	12.1	503
7x2.5	ru	0.7	0.8	1.4	18.5	7.41	608
7x4	ru	0.8	0.8	1.4	20.4	4.61	777
7x6	ru	0.8	0.8	1.4	22.1	3.08	964
9x1	ru	0.6	0.8	1.4	18.0	18.1	507
9x1.5	ru	0.7	0.8	1.4	19.6	12.1	610
9x2.5	ru	0.7	0.8	1.4	21.2	7.41	747
12x1	ru	0.6	0.8	1.4	18.7	18.1	563
12x1.5	ru	0.7	0.8	1.4	20.4	12.1	692
12x2.5	ru	0.7	1.0	1.8	22.1	7.41	860
14x1	ru	0.6	0.8	1.4	19.3	18.1	605
14x1.5	ru	0.7	0.8	1.4	21.1	12.1	748
14x2.5	ru	0.7	1.0	1.8	23.7	7.41	987
16x1	ru	0.6	0.8	1.4	20.0	18.1	655
16x1.5	ru	0.7	0.8	1.8	21.9	12.1	812
16x2.5	ru	0.7	1.0	1.8	25.0	7.41	1105
19x1	ru	0.6	0.8	1.4	20.0	18.1	711
19x1.5	ru	0.7	1.0	1.8	22.7	12.1	888
19x2.5	ru	0.7	1.0	1.8	26.0	7.41	1220
21x1	ru	0.6	1.0	1.8	23.8	18.1	853
21x1.5	ru	0.7	1.0	1.8	26.7	12.1	1095
21x2.5	ru	0.7	1.0	1.8	29.1	7.41	1379
24x1	ru	0.6	1.0	1.8	23.8	18.1	890
24x1.5	ru	0.7	1.0	1.8	26.7	12.1	1149
24x2.5	ru	0.7	1.0	1.8	29.1	7.41	1463

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Tipodimensiune cablu <i>Cable size</i>	Tip conductor <i>Conductor type</i>	Grosime radiala izolatie <i>Insulation radial thickness</i>	Grosime radiala manta <i>Sheath radial thickness</i>		Diametru exterior nominal <i>Nominal outer diameter</i>	Rezistenta electrica, max la 20°C <i>Max. resistance at 20°C</i>	Masa inf <i>Mass inf</i>			
			mm					mm	Ω/km	kg/km
			Int.	Ext.						
27x1	ru	0.6	1.0	1.8	24.1	18.1	941			
27x1.5	ru	0.7	1.0	1.8	27.1	12.1	1219			
27x2.5	ru	0.7	1.0	1.8	29.6	7.41	1519			
30x1	ru	0.6	1.0	1.8	25.1	18.1	1027			
30x1.5	ru	0.7	1.0	1.8	27.8	12.1	1296			
30x2.5	ru	0.7	1.0	1.8	30.4	7.41	1678			
33x1	ru	0.6	1.0	1.8	25.8	18.1	1085			
33x1.5	ru	0.7	1.0	1.8	28.6	12.1	1380			
33x2.5	ru	0.7	1.0	1.8	31.6	7.41	1850			
37x1	ru	0.6	1.0	1.8	26.5	18.1	1150			
37x1.5	ru	0.7	1.0	1.8	29.5	12.1	1477			
37x2.5	ru	0.7	1.0	2.2	33.8	7.41	2099			
42x1	ru	0.6	1.0	1.8	28.8	12.1	1300			
42x1.5	ru	0.7	1.0	1.8	32.5	7.41	1665			
48x1	ru	0.6	1.0	1.8	29.2	18.1	1382			
48x1.5	ru	0.7	1.0	1.8	32.9	12.1	1789			
52x1	ru	0.6	1.0	1.8	29.8	18.1	1452			
52x1.5	ru	0.7	1.0	1.8	34.1	12.1	1879			
56x1	ru	0.6	1.0	1.8	31.3	18.1	1528			
56x1.5	ru	0.7	1.0	2.2	34.9	12.1	2052			
61x1	ru	0.6	1.0	1.8	32.0	18.1	1612			
61x1.5	ru	0.7	1.0	2.2	35.8	12.1	2169			
64x1	ru	0.7	1.0	1.8	36.8	18.1	1659			
68x1	ru	0.7	1.0	1.8	36.8	18.1	1758			
75x1	ru	0.7	1.0	2.2	39.7	18.1	1970			
88x1	ru	0.7	1.2	2.2	41.6	18.1	2235			

Forma constructiva:



1	Conductoare rotunde, unifilare, din cupru	1	Solid copper conductors
2	Conductoare izolate	2	Insulated conductors
3	Invelis comun extrudat sau din benzi	3	Filler or pastic tape
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