

## CS2YEALAbY-F, CS2YEALAbzY-F 0.6/1 kV

**Cablu de semnalizare cu izolatie de polietilena liniara si manta de PVC, ecranat-armate**

**Armored and screened signal cable with linear polyethylene (PE) insulation and PVC sheath**

Standard	Aprobari / Approvals	Ambalare / Packaging	
ST 147 :2012, rev.2 : 2018 Standard de referinta: SR CEI 60502-1	Certificat de omologare tehnica feroviara Nr 115, 116 / 2018, AFER Buc Railway Technical Approval Certificate No 115, 116 / 2018, AFER Buc Romania	Tambur/ drum	

CARACTERISTICI		CHARACTERISTICS	
<b>Utilizare:</b> 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.		<b>Applicability:</b> 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.	
<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>	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	<b>Test voltage</b>	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
<b>Rezistivitatea de volum la :+20°C +70°C</b>	1x10 <sup>15</sup> Ω*cm 1x10 <sup>12</sup> Ω*cm	<b>Volume resistivity at +20°C +70°C</b>	1x10 <sup>15</sup> Ω*cm 1x10 <sup>12</sup> Ω*cm
<b>Rezistenta de izolatie la 20 °C</b>	Min. 100 MΩ*km	<b>Insulation resistance</b>	Min. 100 MΩ*km
<b>Factor reductor la 200mV/m si 50 Hz</b>	max 0.7	<b>Reduction factor</b>	max 0.7
<b>Capacitate la 800 Hz</b>	Max 100 nF/km	<b>Capacity at 800 Hz</b>	Max 100 nF/km
<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>	+70°C	<b>Max.permissible operating temperature</b>	+70°C
<b>Temperatura maxima de scurt-circuit</b>	+130°C (max. 5 sec)	<b>Max. short-circuit temperature</b>	+130°C (max. 5 sec)
<b>Temperatura de utilizare normala</b>	-40°C ÷ +70°C	<b>Normal operational temperature range</b>	-40°C ÷ +70°C
<b>Temperatura minima de montaj</b>	-5°C	<b>Temperature during installation</b>	-5°C
<b>Conformitate RoHS</b>	Da	<b>RoHS compliancy</b>	Yes
<b>Conformitate REACH</b>	Da	<b>REACH compliancy</b>	Yes
<b>Temperatura masurata pe manta</b>	-10°C ÷ +70°C	<b>Temperature measured on the sheath</b>	-10°C ÷ +70°C
<b>Conductor de cupru</b>	Conductor unifilar (ru), SR EN 60228	<b>Copper conductor</b>	Solid conductor (ru), SR EN 60228
<b>Izolatie</b>	Polietilena liniara (PE)	<b>Insulation</b>	Linear polyethylene (PE)
<b>Umplutura</b>	PVC sau benzi din material plastic	<b>Filling</b>	PVC or plastic tape
<b>Manta interioara</b>	PVC tip ST1 negru sau gri	<b>Inner sheath</b>	PVC type ST1 black or gray
<b>Ecran</b>	Ecran din sarme de Al, min 1.6 mm	<b>Screen</b>	Aluminium wire screen, min 1.6 mm
<b>Armatura</b>	Banda de otel laminata la rece nezincata (CS2YEALAbY, CS2YEALAbY-F) sau zincata (CS2YEALAbzY, CS2YEALAbzY-F) ,de grosime 0.2 mm.	<b>Armor</b>	Blank (CS2YEALAbY, CS2YEALAbY-F) or zinc-plated cold-rolled (CS2YEALAbzY, CS2YEALAbzY-F) steel tape 0.2 mm thickness

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<b>Manta exterioara</b>	PVC tip ST1 negru (CS2YEALAbY, CS2YEALAbzY) sau gri (CS2YEALAbzY-F, CS2YEALAbzY-F) Caburile sunt cu rezistenta sau rezistenta marita la propagarea flacarii - conf SR EN 60332-1-2(CS2YEALAbY, CS2YEALAbzY) ,SR EN 60332-3-24 /cat C (CS2YEALAbY-F, CS2YEALAbzY-F)	<b>Outer sheath</b>	PVC type ST1 black (CS2YEALAbY, CS2YEALAbzY) or gray (CS2YEALAbzY-F, CS2YEALAbzY-F) The cables are flame retardant or extra flame retardant acc SR EN 60332-1-2(CS2YEALAbY, CS2YEALAbzY) ,SR EN 60332-3-24 /cat C (CS2YEALAbY-F, CS2YEALAbzY-F)
<b>Marcaj pe manta</b>	SC ELECTROPLAST SA ,simbol cablu ,tensiune de lucru, luna, an de fabricatie marcaj de lungime Exemplu de marcaj : CS2YEALAbY-F 37x1.5 mm <sup>2</sup> 0.6/1 kV ELECTROPLAST SA 09/2018 0030	<b>Sheath marking</b>	SC ELECTROPLAST SA , cable symbol , operational voltage, , months ,year of manufacture, ,mark length Example: CS2YEALAbY-F 37x1.5 mm <sup>2</sup> 0.6/1 kV ELECTROPLAST SA 09/2018 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 50 N/mm <sup>2</sup>	<b>Max. tensile strain during installation</b>	Max 50 N/mm <sup>2</sup>
<b>Cod de culori</b>	Conf. ST 147, rev.2 :2018	<b>Color coding</b>	According ST 147, rev.2 :2018

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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

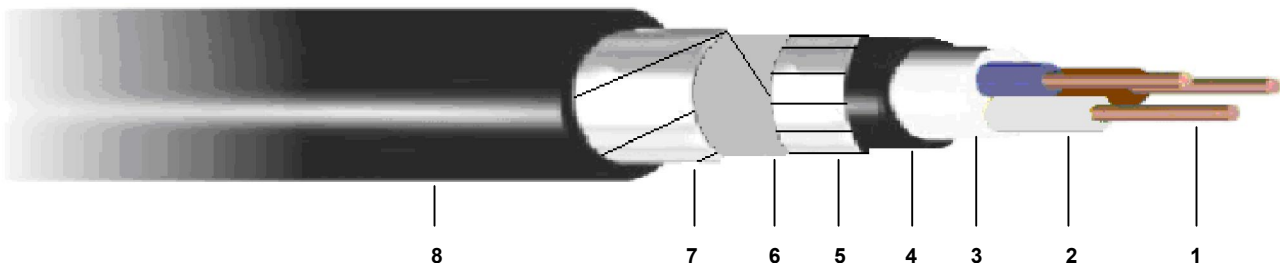
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			mm	Int.			
27x1	ru	0.6	1.0	1.8	24.1	18.1	941
27x1.5	ru	0.7	1.0	1.8	27.1	12.1	1219
27x2.5	ru	0.7	1.0	1.8	29.6	7.41	1519
30x1	ru	0.6	1.0	1.8	25.1	18.1	1027
30x1.5	ru	0.7	1.0	1.8	27.8	12.1	1296
30x2.5	ru	0.7	1.0	1.8	30.4	7.41	1678
33x1	ru	0.6	1.0	1.8	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
44x1	ru	0.6	1.0	1.8	29.9	12.1	1340
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 cu PE	2	PE insulated conductors
3	Invelis comun extrudat sau din benzi	3	Filler or pastic tape
4	Manta interna din PVC	4	PVC 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 din PVC	8	PVC outer sheath