

# CONDUCTOR CUPRU CLASA 2 SI 5

## COPPER CONDUCTOR CLASS 2 and 5

Standard	Aprobari / Approvals	Ambalare / Packaging
ST 161: 2025; SR EN 60228	Certificat de omologare tehnica feroviara Nr 146, 147/2025, AFER Buc Railway Technical Approval Certificate No. 146, 147/2025, AFER Buc Romania	Tambur/ drum

CARACTERISTICI		CHARACTERISTICS	
<b>Utilizare:</b> Conductoarele de cupru 2 si clasa 5 se utilizeaza la :  -legaturi electrice la linia de contact (LC),  puncte sectionare (PS), puncte subsectionare (PSS), comanda la distanta a separatoarelor (CDS)		Copper conductors class 2 and class 5 is used to:  -Electrical connector contact line (CL), sectioning points  - remote command separator (RCS)	
Temperatura minima de montaj	-5°C	Temperature during installation	-5°C
Temperatura maxima de lucru	-40°C...+55 °C	Max.permmissible operating temperature	-40°C...+55 °C
Raza minima de curbura la instalare	Min. 12 x diametru	Min. bending radius at installation	Min. 12 x diameter
Forta maxima de tractiune la pozare	Max 50 N/mm <sup>2</sup>	Max. tensile strain during installation	Max 50 N/mm <sup>2</sup>
Clasa de risc	1A	Risk class	1A
Durata de viata	24-36 ani	Life	24-36 years

### Conductor cupru clasa 5

Sectiune nominala a conductorului  <i>Conductor nominal cross-section</i>	Diametru max al unei sarme de cupru  <i>Copper wire max. diameter</i>	Diametru exterior nominal  <i>Outer diameter nom</i>	Rezistenta electrica, max la 20°C  <i>Max. resistance at 20°C</i>	
			<b>Stanat</b>  <i>Tinned</i>	<b>Nestanat</b>  <i>Blank (Untinned)</i>
<b>mm<sup>2</sup></b>	<b>mm</b>	<b>mm</b>	<b>Ω/km</b>	<b>Ω/km</b>
10	0.41	5.1	1.95	1.91
16	0.41	6.3	1.24	1.21
25	0.41	7.8	0.795	0.78
35	0.41	9.2	0.565	0.554
50	0.41	11.0	0.393	0.386
70	0.51	13.1	0.277	0.272
95	0.51	15.1	0.210	0.206
120	0.51	17.0	0.164	0.161
150	0.51	19.0	0.132	0.129
185	0.51	21.0	0.108	0.106
240	0.51	24.0	0.0817	0.0801
300	0.51	27.0	0.0654	0.0641

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### Conductor cupru clasa 2

<b>Sectiune nominala a conductorului</b> <i>Conductor nominal cross-section</i>	<b>Nr minim de sarme</b> <i>Minimum number of wires</i>	<b>Diametru exterior nominal</b> <i>Nominal outer diameter</i>	<b>Rezistenta electrica, max la 20°C</b> <i>Max. resistance at 20°C</i>
<b>mm<sup>2</sup></b>	<b>mm</b>	<b>mm</b>	<b>Ω/km</b>
16	7	5.1	1.15
25	7	6.6	0.727
35	7	7.9	0.524
50	10	8.1	0.387
70	14	9.8	0.268
95	19	12.3	0.193
120	24	13.0	0.153
150	30	14.3	0.124
185	37	17.2	0.0991
240	37	18.6	0.0754
300	61	22.7	0.0601
400	61	24.6	0.0470
500	61	28.3	0.0366