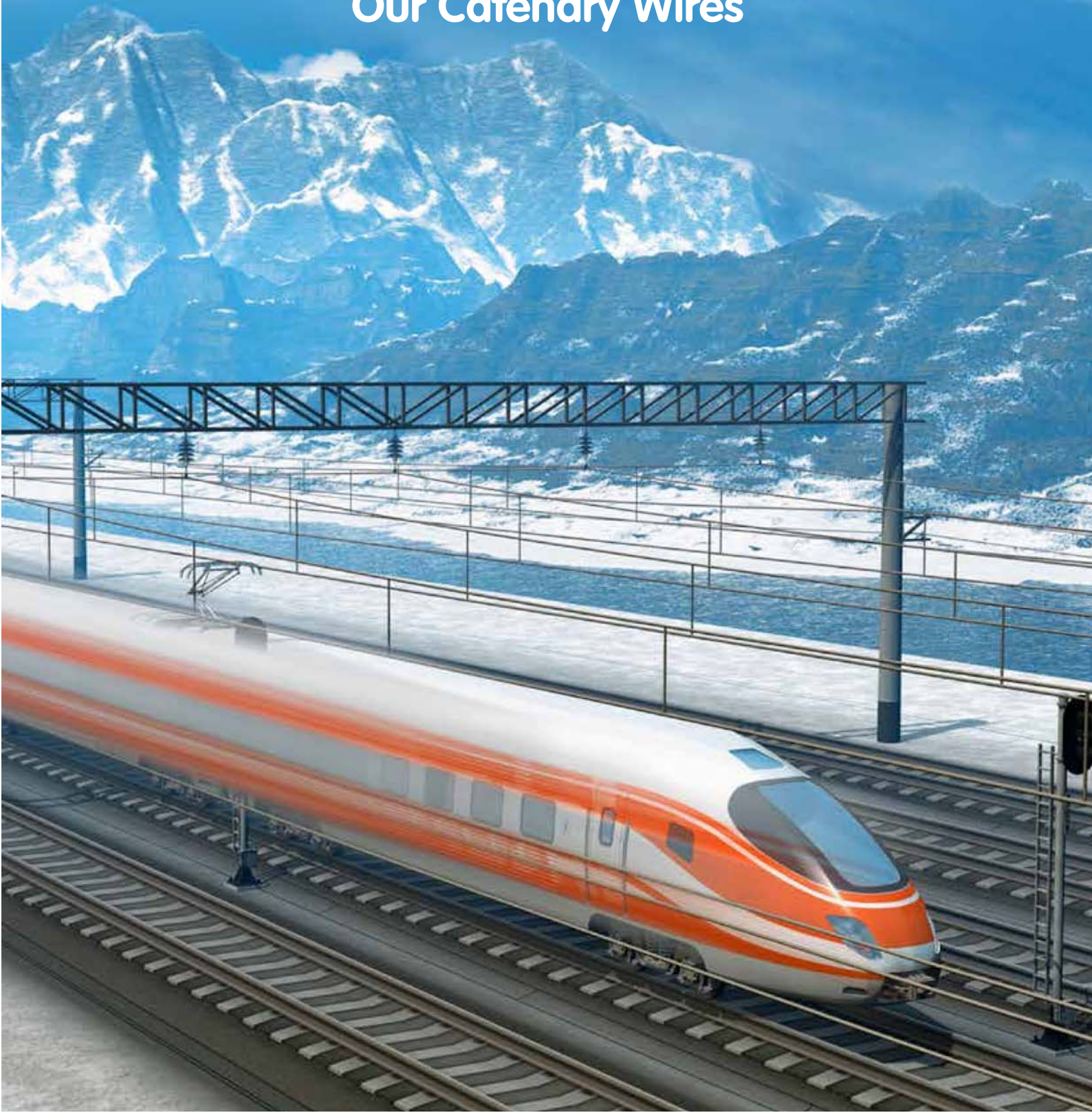


We Bring Right Solutions
by
Our Catenary Wires



sarkuysan

ELEKTROLİTİK BAKIR SANAYİ VE TİCARET A.Ş.

www.sarkuysan.com

Conductors for Overhead Catenary System

Standard	Wire, N x Ø (mm)	Malzeme	Type	Nominal Cross Section (mm ²)	Calculated Cross Section (mm ²)	Max. OD (mm)	Tensile Strength (N/mm ²)	Breaking Stress (kN)	Max. Weight (kg/km)	Fields of Applications
DIN 43138	37 x 7 x 0.76	Hard Copper	Rope	120	117.4	15.88	300	35.23	1085.8	Feeding Cable
DIN 43138	1 x 31/0.50+6 x 28/0.5+12 x 28/0.50	Hard Copper	Rope	105	105.0	15.33	300	31.50	963.7	Feeding Cable
DIN 43138	37 x 7 x 0.70	Hard Copper	Rope	95	99.6	14.63	300	30.27	922.6	Feeding Cable
DIN 48201	19 x 1.80	Copper	Class2	50	48.4	9.00	401	19.38	437.0	Earth Cable
DIN 43138	19 x 7 x 0.60	Hard CuMg0,4	Rope	35	37.6	9.27	589	22.14	351.5	Dropper
DIN 43138	7 x 7 x 0.65	Hard CuMg0,4	Rope	16	16.3	6.20	589	9.60	152.0	Dropper
DIN 43138	12 x 7 x 0.50	Hard CuMg0,4	Rope	16	16.5	6.21	589	9.70	152.7	Dropper
DIN 43138	1*7 x 0.65 + 6 * 7 x 0.54	Hard CuMg0,4	Rope	12	11.9	5.21	589	7.65	110.30	Dropper
DIN 43138	7 x 7 x 0.50	Hard CuMg0,4	Rope	10	9.6	4.50	589	5.65	89.0	Dropper
DIN 48201	19 x 2.80	Hard CuMg0,4	Class2	120	116.9	14.10	589	67.57	1071.5	Messenger Wire
DIN 48201	19 x 2.50	Hard CuMg0,4	Class2	95	93.2	12.60	589	54.76	853.9	Messenger Wire
DIN 48201	37 x 1.50	Hard CuMg0,4	Class2	65	65.4	10.58	589	38.64	602.2	Messenger Wire
DIN 48201	19 x 2.10	Hard CuMg0,4	Class2	65	65.8	10.61	589	38.64	602.7	Messenger Wire
DIN 48201	19 x 2.80	Hard Copper	Class2	120	116.9	14.10	300	48.90	1071.5	Messenger Wire
DIN 48201	7 x 2.50	Hard CuMg0,4	Class2	35	34.3	7.56	589	20.17	315.2	Y. Dropper
DIN 48201	7 x 2.10	Hard CuMg0,4	Class2	25	24.2	6.30	589	14.24	218.0	Y. Dropper



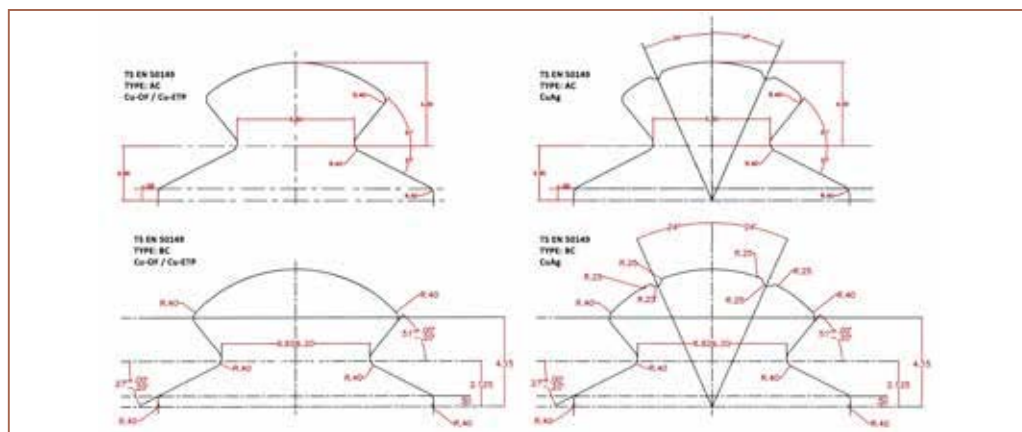
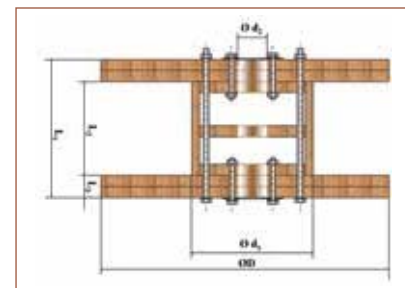
Trolley Wires for Overhead Catenary System

Standard	Nominal Cross Section (mm ²)	Material	Type	Diameter (mm)	Nom. Weight (kg/m)	Nom. Breaking Stress (kN)	Tensile Strength (N/mm ²)	Tensile Strength (kg/mm ²)	Elongation (%)
43141 - EN 50149	80	Cu	AC	10.60	0.712	28.4	355	36.0	3-7
43141 - EN 50149	100	Cu	AC	12.00	0.890	35.5	355	36.0	3-7
43141 - EN 50149	100	Cu	BC	12.00	0.890	35.5	355	36.0	3-7
EN 50149 - AC	107	Cu	AC	12.30	0.952	37.4	360	36.5	3-7
EN 50149 BC - UIC 870	107	Cu	BC	12.24	0.952	37.4	360	36.5	3-7
EN 50149	120	Cu	AC	13.20	1.068	38.4	330	33.5	3-7
EN 50149	120	Cu	BC	12.85	1.068	38.4	330	33.5	3-7
EN 50149	150	Cu	AC	14.80	1.335	45.1	360	36.5	3-7
EN 50149	150	Cu	BC	14.50	1.335	45.1	360	36.5	3-7
EN 50149	107	CuAg0,1	AC	12.30	0.952	39.6	350	35.5	3-10
EN 50149	107	CuAg0,1	BC	12.24	0.952	39.6	350	35.5	3-10
EN 50149	120	CuAg0,1	AC	13.20	1.068	40.7	350	35.5	3-10
EN 50149	120	CuAg0,1	BC	12.85	1.068	40.7	350	35.5	3-10
EN 50149	150	CuAg0,1	AC	14.80	1.335	50.9	340	35.5	3-10
EN 50149	150	CuAg0,1	BC	14.50	1.335	50.9	340	35.5	3-10

WOODEN SPOOL SPECIFICATIONS

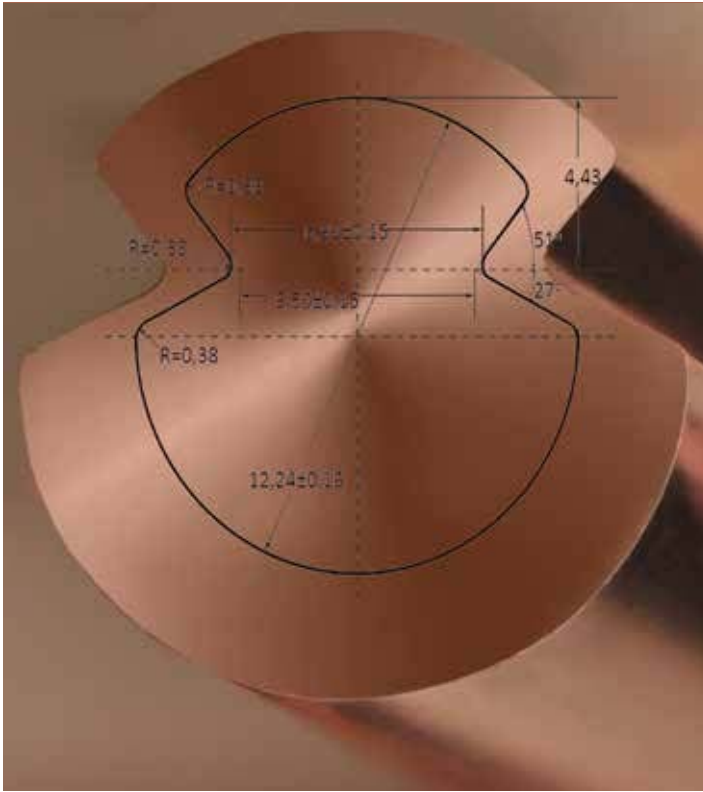
Spool Type	Spool Dimensions (mm)						Net Weight (Kg)	Tare (Kg)
	D	d1	d2	L1	L2	L3		
630	630	280	127	430	380	25	300-450	~28
800	800	460	127	530	470	30	700-800	~30
1250	1250	700	80	580	460	60	1500-2500	~200
1300	1300	810	127	515	355	80	1200-1350	160-189

* Please contact with Export Marketing Department for other product sizes or type of packing.



OVERHEAD CATENARY WIRES

- Sarkuysan, the first successful wholly publicly owned corporation of the country with its over 5000 shareholders, has been serving in the electrolytic copper industry with its products, including cable wire, trolley wire, bus bar and tube since 1972.
- Production processes are subject to strict quality control procedures and during the production of each product, including the trolley wires, all the requirements of ISO accredited test certificates are meticulously applied. Sarkuysan has ISO-EN 9001, ISO/TS 16949 Quality Management, ISO 14001 Environmental Management and OHSAS 18001 Occupational Health and Safety Management System certification.



FEATURES:

- Electrolytic copper (99.99% Cu) is used for the production of contact wires and conductors at Sarkuysan. Contact wires (trolley wires) of various dimensions are produced from electrolytic copper and silver bearing copper rods by drawing, rolling and roll-drawing methods.
- Pure copper and silver bearing copper alloy contact wires can be produced according to international standards such as ASTM B47, DIN 43141, UIC 870-0, TS EN 50149 and any other specified standards or customer specifications.
- Silver bearing copper contact wires offer high conductivity and high softening temperatures, which bring great advantages for high speed and high frequency rail systems.
- CuMg alloy, CuAg alloy and pure copper conductors which have high breaking stress, flexibility, strength and mechanical properties are ideal for use all types of catenary constructions.

FIELDS OF APPLICATION:

- Overhead electric railway systems
- Mass transit and high speed systems
- Both AC and DC applications
- Light rail, tram and trolley bus systems
- Overhead traveling cranes

