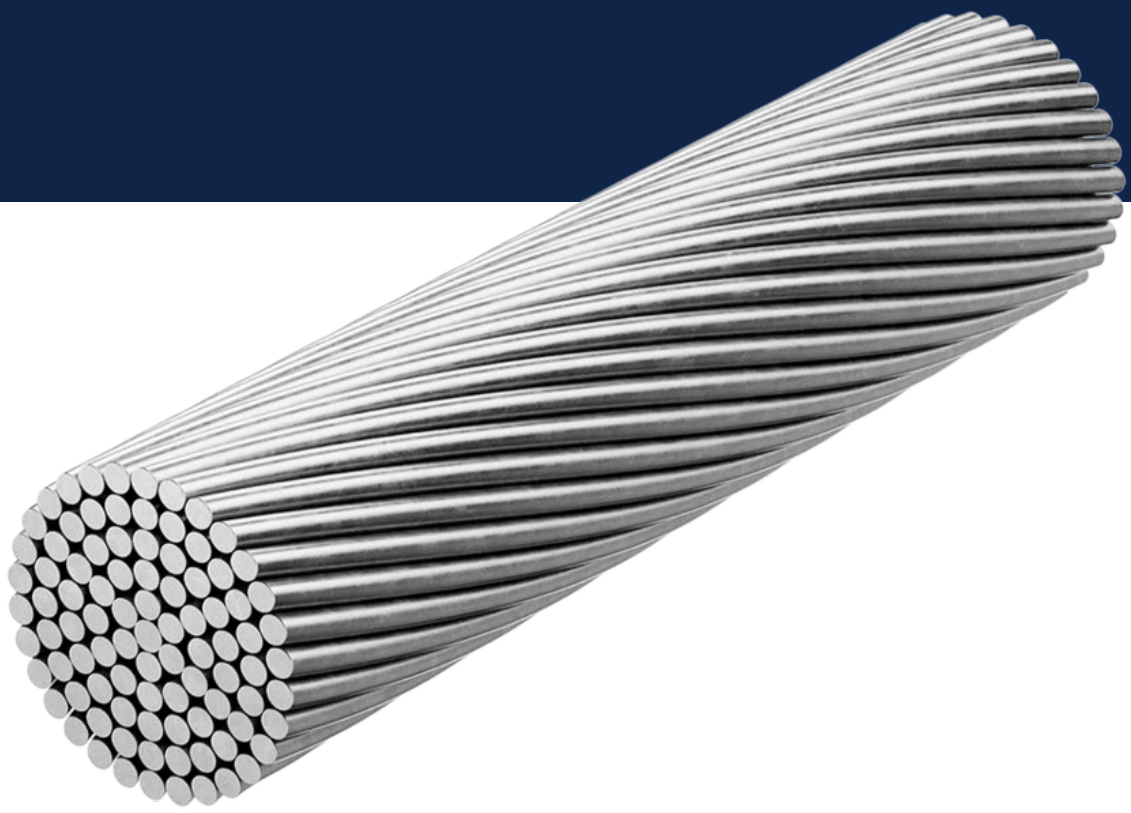
WIRE ROPE SERVICES

Open Spiral Strand (OSS) Wire Rope

Technical Data Sheet



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PRODUCT DATA

Material:	High-strength wire made of unalloyed steel in accordance with DIN EN 10264-2
Elastic modulus:	160 kN/mm² +/- 10 kN/mm²
Diameter tolerance:	0 % / +3 %
Corrosion protection:	Zn95Al5 coated wires (e.g. Galfan®), no rope filler

MECHANICAL PROPERTIES

Nominal diameter [mm]	Minimum breaking strength F_{min} [kN]	Characteristic breaking strength $F_{u,k}$ [kN]	Limit tension F_{Rd} [kN]	Metal nominal cross section A [mm²]	Stiffness EA [MN]	Weight G [kg/m]
6	37.7	33.9	22.6	22.0	3.52	0.2
8	67.5	60.7	40.5	39.4	6.31	0.3
10	105	94.4	62.9	61.3	9.81	0.5
12	150	135	90.3	87.9	14.1	0.7
14	204	184	123	119	19.1	1.0
16	266	240	160	156	24.9	1.3
18	331	298	199	198	31.6	1.6
20	408	368	245	244	39.0	2.0
22	494	445	297	295	47.3	2.4
24	591	532	355	353	56.5	2.9
26	693	624	416	414	66.3	3.4
28	792	713	475	479	76.6	3.9
30	907	816	544	548	87.7	4.5
32	1'034	931	620	625	99.9	5.1
34	1'169	1'052	702	706	113	5.8
36	1'298	1'168	779	793	127	6.5
40	1'450	1'450	967	929	149	7.7
45	1'830	1'830	1'220	1'180	189	9.8
50	2'260	2'260	1'507	1'450	232	12
55	2'730	2'730	1'820	1'750	280	15
60	3'250	3'250	2'167	2'090	334	17
65	3'810	3'810	2'540	2'450	392	20
70	4'430	4'430	2'953	2'840	454	24
75	5'080	5'080	3'387	3'260	522	27
80	5'790	5'790	3'860	3'710	594	31

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Nominal diameter [mm]	Minimum breaking strength F_{min} [kN]	Characteristic breaking strength $F_{u,k}$ [kN]	Limit tension F_{Rd} [kN]	Metal nominal cross section A [mm²]	Stiffness EA [MN]	Weight G [kg/m]
85	6'530	6'530	4'353	4'190	670	35
90	7'320	7'320	4'880	4'700	752	39
95	8'160	8'160	5'440	5'240	838	44
100	9'040	9'040	6'027	5'800	928	48
105	9'990	9'990	6'660	6'400	1'024	53
110	10'900	10'900	7'267	7'020	1'123	58
115	12'000	12'000	8'000	7'680	1'229	64
120	13'000	13'000	8'667	8'360	1'338	69
125	14'100	14'100	9'400	9'060	1'450	75
130	15'300	15'300	10'200	9'810	1'570	81
135	16'500	16'500	11'000	10'600	1'696	88

Values reproduced from the supplied technical data. Confirm rope diameter, construction, termination system, corrosion protection and project design requirements before selection or engineering use.