WIRE ROPE SERVICES

Full Locked Coil (FLC) Wire Rope

Technical Data Sheet

DIN EN 12385-10

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PRODUCT DATA

Material:	High-strength wire made of unalloyed steel in accordance with DIN EN 10264-2 (round wire) and DIN EN 10264-3 (shaped wire)
Elastic modulus:	160 kN/mm² +/- 10 kN/mm²
Diameter tolerance:	0 % / +3 %
Assembly:	Spelter in accordance with ETA-15/0917 with synthetic resin (e.g. WIRELOCK®) or metal (e.g. Zamak)
Corrosion protection:	Inner wire layers: Wires coated with zinc and filled internally with zinc dust paint (TRULUB A 11®) Outer two wire layers: 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]
25	596	596	397	440	70	3.8
30	858	858	572	648	104	5.6
35	1,170	1,170	780	842	135	7.3
40	1,580	1,580	1,053	1,125	180	9.7
45	2,000	2,000	1,333	1,382	221	12
50	2,470	2,470	1,647	1,747	279	15
55	3,020	3,020	2,013	2,129	341	18
60	3,590	3,590	2,393	2,480	397	21
65	4,220	4,220	2,813	2,929	469	25
70	4,890	4,890	3,260	3,460	554	30
75	5,620	5,620	3,747	3,896	623	34
80	6,390	6,390	4,260	4,398	704	38
85	7,210	7,210	4,807	4,952	792	42
90	8,090	8,090	5,393	5,617	899	48
95	9,110	9,110	6,073	6,095	975	52
100	10,100	10,100	6,733	6,804	1,089	58
105	11,100	11,100	7,400	7,567	1,211	65
110	12,200	12,200	8,133	8,341	1,335	71
115	13,400	13,400	8,933	9,149	1,464	78
120	14,500	14,500	9,667	9,786	1,566	84
125	15,800	15,800	10,533	10,684	1,710	91
130	16,200	16,200	10,800	11,414	1,826	98
135	17,400	17,400	11,600	12,368	1,979	106
140	20,000	20,000	13,333	13,560	2,170	114
145	21,500	21,500	14,333	14,478	2,316	122
150	23,000	23,000	15,333	15,782	2,525	131

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