

Litz Wire - Technical Data By Dimensions

Nominal Diameter	No of strands	Cross section of conductor	Resistance at 20 °C			Outer diameter unserved				Outer diameter single served				Outer diameter double served				1 kg HF-Litzwire unserved	
						Grade 1		Grade 2		Grade 1		Grade 2		Grade 1		Grade 2		Grade 1	Grade 2
			nom	min	max	min	max	min	max	min	max	min	max	min	max	min	max	Length	Length
[mm]	#	[mm²]	[Ohm/m]	[Ohm/m]	[Ohm/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m/kg]	[m/kg]
0.020	10	0.0031	5.5500	4.9950	6.1050	0.087	0.095	0.099	0.107	0.112	0.135	0.124	0.147	0.137	0.175	0.149	0.187	33,344.48	31,689.48
0.020	12	0.0038	4.6550	4.1625	5.0875	0.095	0.104	0.108	0.177	0.120	0.144	0.133	0.157	0.145	0.184	0.158	0.197	22,787.07	26,407.90
0.020	16	0.0050	3.4688	3.1219	3.8156	0.111	0.121	0.126	0.138	0.136	0.161	0.151	0.176	0.163	0.201	0.176	0.216	20,840.30	19,805.93
0.020	20	0.0063	2.7750	2.4975	3.0525	0.125	0.136	0.142	0.153	0.150	0.176	0.176	0.193	0.175	0.216	0.192	0.233	16,672.24	15,844.74
0.020	30	0.0094	1.8500	1.6650	2.0350	0.154	0.168	0.175	0.189	0.179	0.208	0.200	0.229	0.204	0.248	0.225	0.269	11,114.83	10,583.16
0.020	60	0.0188	0.9434	0.8488	1.0375	0.218	0.238	0.248	0.268	0.243	0.278	0.273	0.308	0.268	0.318	0.298	0.348	5557.41	5281.58
0.020	120	0.0377	0.4716	0.4244	0.5187	0.308	0.337	0.351	0.379	0.333	0.377	0.376	0.419	0.358	0.417	0.401	0.459	2778.71	2640.79
0.020	180	0.0565	0.3204	0.2884	0.3525	0.378	0.412	0.429	0.464	0.403	0.452	0.454	0.504	0.428	0.492	0.479	0.544	1852.47	1760.53
0.020	200	0.0628	0.2829	0.2546	0.3112	0.398	0.434	0.453	0.489	0.423	0.474	0.478	0.529	0.448	0.514	0.503	0.569	1667.22	1584.47
0.020	270	0.0848	0.2136	0.1923	0.2350	0.463	0.505	0.526	0.568	0.488	0.545	0.551	0.608	0.513	0.585	0.576	0.648	1234.98	1173.68
0.020	600	0.1885	0.0961	0.0865	0.1057	0.690	0.752	0.784	0.847	0.715	0.792	0.809	0.887	0.740	0.832	0.834	0.927	555.74	528.16
0.020	800	0.2513	0.0721	0.0649	0.0793	0.796	0.869	0.905	0.978	0.821	0.909	0.930	1.018	0.846	0.949	0.955	1.058		

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			nom	min	max	min	max	min	max	min	max	min	max	min	max	min	max	Length	Length
[mm]	#	[mm²]	[Ohm/m]	[Ohm/m]	[Ohm/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m/kg]	[m/kg]
0.050	75	0.1473	0.1207	0.1099	0.1316	0.610	0.665	0.676	0.732	0.635	0.705	0.701	0.772	0.660	0.745	0.726	0.812	711.35	683.16
0.050	90	0.1767	0.1006	0.0915	0.1097	0.668	0.729	0.741	0.801	0.693	0.769	0.766	0.841	0.718	0.809	0.791	0.881	592.79	569.30
0.050	105	0.2062	0.0862	0.0785	0.0940	0.721	0.787	0.800	0.866	0.746	0.827	0.825	0.906	0.771	0.867	0.850	0.946	508.11	487.97
0.050	180	0.3534	0.0513	0.0467	0.0559	0.945	1.030	1.048	1.133	0.970	1.070	1.073	1.173	0.995	1.110	1.098	1.213	296.40	284.65
0.050	225	0.4418	0.0410	0.0373	0.0447	1.056	1.152	1.171	1.267	1.081	1.192	1.196	1.307	1.106	1.232	1.221	1.347	237.12	227.72
0.050	270	0.5301	0.0342	0.0311	0.0373	1.157	1.262	1.283	1.388	1.182	1.302	1.308	1.428	1.207	1.342	1.333	1.468	197.60	189.77
0.050	600	1.1781	0.0154	0.0140	0.0168	1.724	1.881	1.913	2.069	1.749	1.921	1.938	2.109	1.774	1.961	1.963	2.149	88.92	85.39
0.050	800	1.5708	0.0115	0.0105	0.0126	1.991	2.172	2.208	2.389	2.016	2.212	2.233	2.429	2.041	2.252	2.258	2.469	66.69	64.05
0.050	1000	1.9635	0.0092	0.0084	0.0101	2.226	2.429	2.469	2.671	2.251	2.469	2.494	2.711	2.276	2.509	2.519	2.751	53.35	51.24
0.071	4	0.0158	1.1010	1.0049	1.2106	0.195	0.210	0.213	0.228	0.220	0.250	0.238	0.268	0.245	0.290	0.263	0.308	6634.43	6419.69
0.071	8	0.0317	0.5505	0.5025	0.6053	0.276	0.297	0.301	0.322	0.301	0.337	0.326	0.362	0.326	0.377	0.351	0.402	3317.21	3209.85
0.071	10	0.0396	0.4404	0.4020	0.4842	0.308	0.332	0.336	0.360	0.333	0.372	0.361	0.400	0.358	0.412	0.386	0.440	2653.77	2567.88
0.071	15	0.05																	

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			nom	min	max	min	max	min	max	min	max	min	max	min	max	min	max	Length	Length
[mm]	#	[mm²]	[Ohm/m]	[Ohm/m]	[Ohm/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m/kg]	[m/kg]
0.100	105	0.8247	0.0216	0.0201	0.0231	1.417	1.535	1.548	1.640	1.442	1.575	1.573	1.680	1.467	1.615	1.598	1.720	128.06	124.31
0.100	120	0.9425	0.0189	0.0176	0.0202	1.514	1.641	1.655	1.753	1.539	1.681	1.680	1.793	1.564	1.721	1.705	1.833	112.05	108.77
0.100	160	1.2566	0.0141	0.0132	0.0152	1.749	1.894	1.911	2.024	1.774	1.934	1.936	2.064	1.799	1.974	1.961	2.104	84.04	81.58
0.100	180	1.4137	0.0126	0.0118	0.0135	1.855	2.009	2.026	2.147	1.880	2.049	2.051	2.187	1.905	2.089	2.076	2.227	74.70	72.51
0.100	200	1.5708	0.0113	0.0106	0.0121	1.955	2.118	2.136	2.263	1.980	2.158	2.161	2.303	2.005	2.198	2.186	2.343	67.23	65.26
0.100	225	1.7671	0.0103	0.0096	0.0110	2.074	2.246	2.266	2.400	2.099	2.286	2.291	2.440	2.124	2.326	2.316	2.480	59.76	58.01
0.100	270	2.1206	0.0085	0.0080	0.0092	2.272	2.461	2.482	2.629	2.297	2.501	2.507	2.669	2.322	2.541	2.532	2.709	49.80	48.34
0.100	600	4.7124	0.0038	0.0036	0.0041	3.386	3.668	3.700	3.919	3.411	3.708	3.725	3.959	3.436	3.748	3.750	3.999	22.41	21.75
0.100	800	6.2832	0.0029	0.0027	0.0031	3.910	4.236	4.272	4.525	3.935	4.276	4.297	4.565	3.960	4.316	4.322	4.605	16.81	16.32
0.120	4	0.0452	0.3853	0.3636	0.4090	0.325	0.345	0.348	0.370	0.350	0.385	0.373	0.410	0.375	0.425	0.398	0.450	2340.72	2280.74
0.120	8	0.0905	0.1927	0.1818	0.2045	0.460	0.488	0.491	0.523	0.485	0.528	0.516	0.563	0.510	0.568	0.541	0.603	1170.36	1140.37
0.120	10	0.1131	0.1541	0.1455	0.1636	0.514	0.545	0.549	0.585	0.539	0.585	0.574	0.625	0.564	0.625	0.599	0.665	936.29	912.30
0.120	15	0.1696	0																

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						Grade 1		Grade 2		Grade 1		Grade 2		Grade 1		Grade 2		Grade 1	Grade 2
			nom	min	max	min	max	min	max	min	max	min	max	min	max	min	max	Length	Length
[mm]	#	[mm²]	[Ohm/m]	[Ohm/m]	[Ohm/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m/kg]	[m/kg]
0.160	90	1.8096	0.0098	0.0094	0.0103	2.089	2.210	2.222	2.356	2.114	2.250	2.247	2.396	2.139	2.290	2.272	2.436	58.71	57.36
0.160	100	2.0106	0.0088	0.0084	0.0093	2.202	2.330	2.342	2.483	2.227	2.370	2.367	2.523	2.252	2.410	2.392	2.563	52.84	51.62
0.160	120	2.4127	0.0074	0.0070	0.0077	2.412	2.552	2.2566	2.720	2.437	2.592	2.591	2.760	2.462	2.632	2.616	2.800	44.04	43.02
0.160	150	3.0159	0.0059	0.0056	0.0062	2.696	2.853	2.869	3.041	2.721	2.893	2.894	3.081	2.746	2.933	2.919	3.121	35.23	34.41
0.160	200	4.0212	0.0044	0.0042	0.0046	3.114	3.295	3.313	3.512	3.139	3.335	3.338	3.552	3.164	3.375	3.363	3.592	26.42	25.81
0.160	225	4.5239	0.0040	0.0038	0.0042	3.302	3.494	3.514	3.725	3.327	3.534	3.539	3.765	3.352	3.574	3.564	3.805	23.49	22.94
0.160	270	5.4287	0.0033	0.0032	0.0035	3.618	3.828	3.849	4.080	3.643	3.868	3.874	4.120	3.668	3.908	3.899	4.160	19.57	19.12
0.180	4	0.1018	0.1713	0.1643	0.1787	0.483	0.510	0.513	0.543	0.508	0.550	0.538	0.583	0.533	0.590	0.563	0.623	1044.95	1021.66
0.180	5	0.1272	0.1370	0.1315	0.1429	0.539	0.570	0.573	0.607	0.564	0.610	0.598	0.647	0.589	0.650	0.623	0.687	835.96	817.33
0.180	10	0.2545	0.0685	0.0657	0.0715	0.763	0.806	0.810	0.858	0.788	0.846	0.835	0.898	0.813	0.886	0.860	0.938	417.98	408.33
0.180	20	0.5089	0.0343	0.0329	0.0357	1.096	1.159	1.164	1.232	1.121	1.199	1.189	1.272	1.146	1.239	1.214	1.312	208.99	204.33
0.180	30	0.7634	0.0228	0.0219	0.0238	1.353	1.430	1.437	1.521	1.378	1.470	1.462	1.561	1.403	1.510	1.487	1.601	139.33	136.22
0.180	45	1.1451	0.0152	0.0146	0.0159	1.657	1.752	1.760	1.863	1.682	1.7								

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			nom	min	max	min	max	min	max	min	max	min	max	min	max	min	max	Length	Length
[mm]	#	[mm²]	[Ohm/m]	[Ohm/m]	[Ohm/m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m/kg]	[m/kg]
0.355	60	5.9388	0.0030	0.0029	0.0031	3.718	3.887	3.897	4.075	3.743	3.927	3.922	4.115	3.768	3.967	3.947	4.155	18.04	17.74
0.400	4	0.5027	0.0347	0.0336	0.0359	1.053	1.098	1.100	1.148	1.078	1.138	1.125	1.188	1.103	1.178	1.150	1.228	213.47	210.19
0.400	6	0.7540	0.0231	0.0224	0.0239	1.289	1.344	1.347	1.405	1.314	1.384	1.372	1.445	1.339	1.424	1.397	1.485	142.31	140.12
0.400	10	1.2566	0.0139	0.0134	0.0144	1.664	1.735	1.739	1.814	1.689	1.775	1.764	1.854	1.714	1.815	1.789	1.894	85.39	84.07
0.400	15	1.8850	0.0092	0.0089	0.0096	2.054	2.142	2.147	2.240	2.079	2.182	2.172	2.280	2.104	2.222	2.197	2.230	56.92	56.05
0.400	20	2.5133	0.0069	0.0067	0.0072	2.391	2.493	2.499	2.607	2.416	2.533	2.524	2.647	2.441	2.573	2.549	2.687	42.69	42.04
0.400	30	3.7699	0.0046	0.0045	0.0048	2.952	3.078	3.085	3.218	2.977	3.118	3.110	3.258	3.002	3.158	3.135	3.298	28.46	28.02
0.400	35	4.3982	0.0040	0.0038	0.0041	3.188	3.324	3.332	3.476	3.213	3.364	3.357	3.516	3.238	3.404	3.382	3.556	24.40	24.02
0.500	4	0.7854	0.0222	0.0216	0.0228	1.310	1.360	1.363	1.415	1.335	1.400	1.388	1.455	1.360	1.440	1.413	1.495	136.92	135.07
0.500	6	1.1781	0.0148	0.0144	0.0152	1.604	1.666	1.669	1.733	1.629	1.706	1.694	1.773	1.654	1.746	1.719	1.813	91.28	90.05
0.500	10	1.9635	0.0089	0.0086	0.0091	2.071	2.150	2.154	2.237	2.096	2.190	2.179	2.277	2.121	2.230	2.204	2.317	54.77	54.03
0.500	15	2.9452	0.0059	0.0058	0.0061	2.557	2.655	2.660	2.762	2.582	2.695	2.685	2.802	2.607	2.735	2.710	2.842	36.51	36.00
0.500	20	3.9270	0.0044	0.0043	0.0046	2.976	3.090	3.095	3.215	3.001	3.130	3.120	3.255	3.026	3.170	3.145	3.295	27.38	27.01
0.500	30	5.8905	0.0030	0.0029	0.0030	3.674	3.814	3.821	3.968	3.699	3.854	3.846	4.008	3.724	3.894	3.871	4.048	18.26	18.01
0.500	35	6.8722	0.0025	0.0025	0.0026	3.968	4.119	4.127	4.286	3.993	4.159	4.152	4.326	4.018	4.199	4.177	4.366	15.65	15.44