



Current ratings for welding cables

Current rating for harmonized welding cables according to
CENELEC HD22.6 S2 and HD516 S2, type: H01N2-D and H01N2-E.

H01N2-D for cables with normal flexibility
H01N2-E for cables with extra high flexibility
Ambient temperature: 25 °C
Rated voltage: 100 V

The table is based on continuous use with a duty cycle periods on 5 min.

Copper Cross section mm ²	Rated current - duty cycle						
	100%	85%	80%	60%	35%	20%	8%
	A	A	A	A	A	A	A
10	100	101	102	106	119	143	206
16	135	138	140	148	173	212	314
25	180	186	189	204	244	305	460
35	225	235	239	260	317	400	608
50	285	299	305	336	415	529	811
70	355	375	383	426	531	682	1053
95	430	456	467	523	658	850	1319
120	500	532	545	613	776	1006	1565
150	580	619	634	716	911	1184	1845
185	665	711	729	826	1054	1374	2145

The table is based on continuous use with a duty cycle periods on 10 min.

Copper Cross section mm ²	Rated current - duty cycle						
	100%	85%	80%	60%	35%	20%	8%
	A	A	A	A	A	A	A
10	100	100	100	101	106	118	158
16	135	136	136	139	150	174	243
25	180	182	183	190	213	254	366
35	225	229	231	243	279	338	497
50	285	293	296	316	371	457	681
70	355	367	373	403	482	602	908
95	430	448	456	498	606	765	1164
120	500	524	534	587	721	917	1404
150	580	610	622	689	853	1090	1676
185	665	702	717	797	995	1277	1971

Reduction factors for welding cable used at higher ambient temperature

Ambient temperature °C	25	30	35	40	45
Reduction factors	1,00	0,96	0,91	0,87	0,82

Voltage drops for welding cables

Cross section mm ²	Voltage drops pr. 100A in 10m cable. V
10	2,450
16	1,560
25	0,998
35	0,709
50	0,493
70	0,348
95	0,264
120	0,206
150	0,166
185	0,136