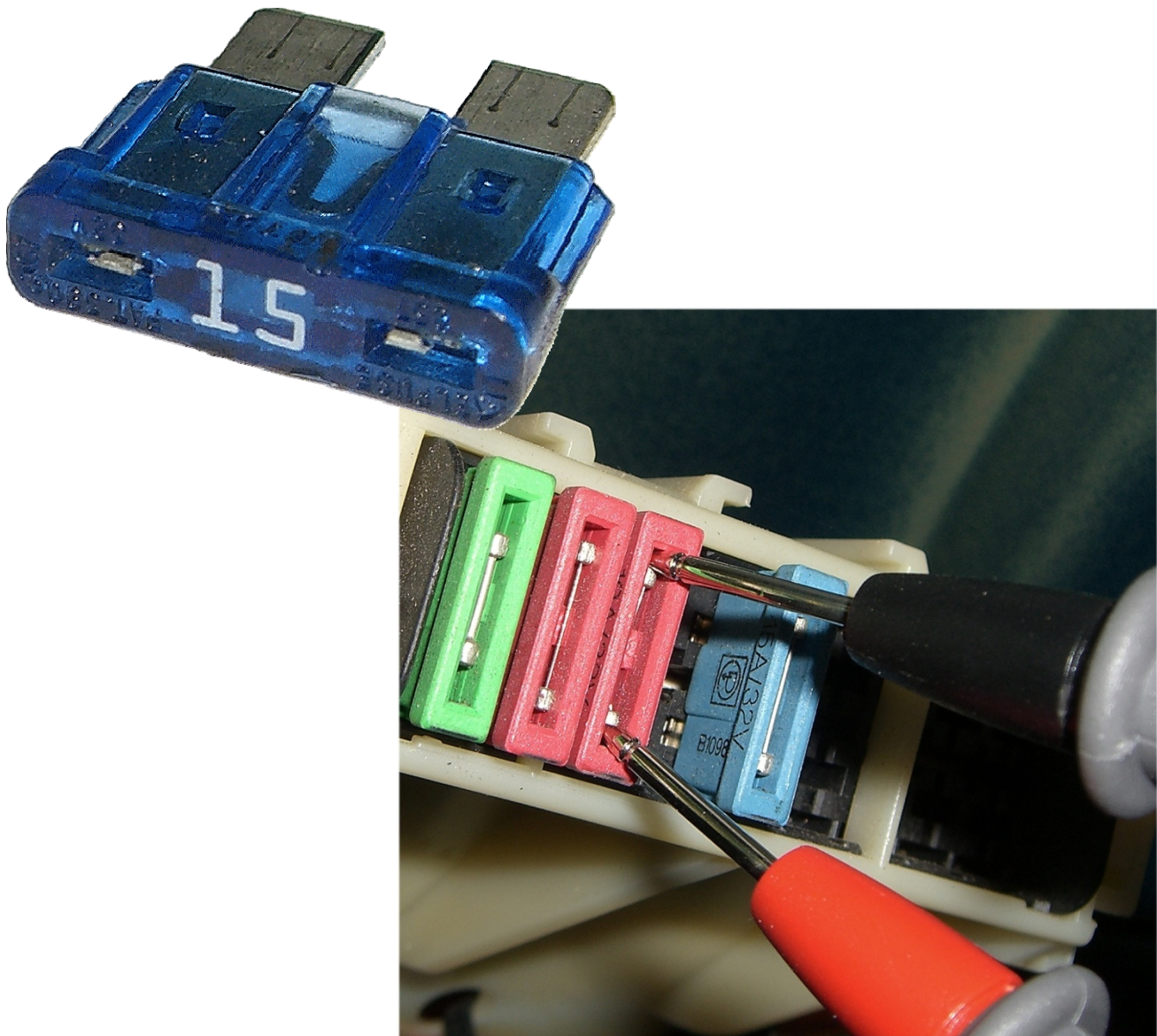


# Spannungsabfall an Flachsicherungen

# 15A



Mit einer „Spannungsabfall-Messung“ an der Sicherung kann der Stromfluß im entsprechenden Stromkreis über die Sicherung annähernd bestimmt werden, sofern der Widerstandswert der Sicherung bekannt ist.

Bsp.: Littelfuse 15 A (4,80 mOhm)

Flachsicherung 15A / 0,0048Ohm

mV	mA	mV	mA	mV	mA	mV	mA	mV	mA
0	0	2,4	500	4,8	1000	7,2	1500	9,6	2000
0,048	10	2,448	510	4,848	1010	7,248	1510	9,648	2010
0,096	20	2,496	520	4,896	1020	7,296	1520	9,696	2020
0,144	30	2,544	530	4,944	1030	7,344	1530	9,744	2030
0,192	40	2,592	540	4,992	1040	7,392	1540	9,792	2040
0,24	50	2,64	550	5,04	1050	7,44	1550	9,84	2050
0,288	60	2,688	560	5,088	1060	7,488	1560	9,888	2060
0,336	70	2,736	570	5,136	1070	7,536	1570	9,936	2070
0,384	80	2,784	580	5,184	1080	7,584	1580	9,984	2080
0,432	90	2,832	590	5,232	1090	7,632	1590	10,032	2090
0,48	100	2,88	600	5,28	1100	7,68	1600	10,08	2100
0,528	110	2,928	610	5,328	1110	7,728	1610	10,128	2110
0,576	120	2,976	620	5,376	1120	7,776	1620	10,176	2120
0,624	130	3,024	630	5,424	1130	7,824	1630	10,224	2130
0,672	140	3,072	640	5,472	1140	7,872	1640	10,272	2140
0,72	150	3,12	650	5,52	1150	7,92	1650	10,32	2150
0,768	160	3,168	660	5,568	1160	7,968	1660	10,368	2160
0,816	170	3,216	670	5,616	1170	8,016	1670	10,416	2170
0,864	180	3,264	680	5,664	1180	8,064	1680	10,464	2180
0,912	190	3,312	690	5,712	1190	8,112	1690	10,512	2190
0,96	200	3,36	700	5,76	1200	8,16	1700	10,56	2200
1,008	210	3,408	710	5,808	1210	8,208	1710	10,608	2210
1,056	220	3,456	720	5,856	1220	8,256	1720	10,656	2220
1,104	230	3,504	730	5,904	1230	8,304	1730	10,704	2230
1,152	240	3,552	740	5,952	1240	8,352	1740	10,752	2240
1,2	250	3,6	750	6	1250	8,4	1750	10,8	2250
1,248	260	3,648	760	6,048	1260	8,448	1760	10,848	2260
1,296	270	3,696	770	6,096	1270	8,496	1770	10,896	2270
1,344	280	3,744	780	6,144	1280	8,544	1780	10,944	2280
1,392	290	3,792	790	6,192	1290	8,592	1790	10,992	2290
1,44	300	3,84	800	6,24	1300	8,64	1800	11,04	2300
1,488	310	3,888	810	6,288	1310	8,688	1810	11,088	2310
1,536	320	3,936	820	6,336	1320	8,736	1820	11,136	2320
1,584	330	3,984	830	6,384	1330	8,784	1830	11,184	2330
1,632	340	4,032	840	6,432	1340	8,832	1840	11,232	2340
1,68	350	4,08	850	6,48	1350	8,88	1850	11,28	2350
1,728	360	4,128	860	6,528	1360	8,928	1860	11,328	2360
1,776	370	4,176	870	6,576	1370	8,976	1870	11,376	2370
1,824	380	4,224	880	6,624	1380	9,024	1880	11,424	2380
1,872	390	4,272	890	6,672	1390	9,072	1890	11,472	2390
1,92	400	4,32	900	6,72	1400	9,12	1900	11,52	2400
1,968	410	4,368	910	6,768	1410	9,168	1910	11,568	2410
2,016	420	4,416	920	6,816	1420	9,216	1920	11,616	2420
2,064	430	4,464	930	6,864	1430	9,264	1930	11,664	2430
2,112	440	4,512	940	6,912	1440	9,312	1940	11,712	2440
2,16	450	4,56	950	6,96	1450	9,36	1950	11,76	2450
2,208	460	4,608	960	7,008	1460	9,408	1960	11,808	2460
2,256	470	4,656	970	7,056	1470	9,456	1970	11,856	2470
2,304	480	4,704	980	7,104	1480	9,504	1980	11,904	2480
2,352	490	4,752	990	7,152	1490	9,552	1990	11,952	2490

Flachsicherung 15A / 0,0048Ohm

mV	mA	mV	mA	mV	mA	mV	mA	mV	mA
12	2500	14,4	3000	16,8	3500	19,2	4000	21,6	4500
12,048	2510	14,448	3010	16,848	3510	19,248	4010	21,648	4510
12,096	2520	14,496	3020	16,896	3520	19,296	4020	21,696	4520
12,144	2530	14,544	3030	16,944	3530	19,344	4030	21,744	4530
12,192	2540	14,592	3040	16,992	3540	19,392	4040	21,792	4540
12,24	2550	14,64	3050	17,04	3550	19,44	4050	21,84	4550
12,288	2560	14,688	3060	17,088	3560	19,488	4060	21,888	4560
12,336	2570	14,736	3070	17,136	3570	19,536	4070	21,936	4570
12,384	2580	14,784	3080	17,184	3580	19,584	4080	21,984	4580
12,432	2590	14,832	3090	17,232	3590	19,632	4090	22,032	4590
12,48	2600	14,88	3100	17,28	3600	19,68	4100	22,08	4600
12,528	2610	14,928	3110	17,328	3610	19,728	4110	22,128	4610
12,576	2620	14,976	3120	17,376	3620	19,776	4120	22,176	4620
12,624	2630	15,024	3130	17,424	3630	19,824	4130	22,224	4630
12,672	2640	15,072	3140	17,472	3640	19,872	4140	22,272	4640
12,72	2650	15,12	3150	17,52	3650	19,92	4150	22,32	4650
12,768	2660	15,168	3160	17,568	3660	19,968	4160	22,368	4660
12,816	2670	15,216	3170	17,616	3670	20,016	4170	22,416	4670
12,864	2680	15,264	3180	17,664	3680	20,064	4180	22,464	4680
12,912	2690	15,312	3190	17,712	3690	20,112	4190	22,512	4690
12,96	2700	15,36	3200	17,76	3700	20,16	4200	22,56	4700
13,008	2710	15,408	3210	17,808	3710	20,208	4210	22,608	4710
13,056	2720	15,456	3220	17,856	3720	20,256	4220	22,656	4720
13,104	2730	15,504	3230	17,904	3730	20,304	4230	22,704	4730
13,152	2740	15,552	3240	17,952	3740	20,352	4240	22,752	4740
13,2	2750	15,6	3250	18	3750	20,4	4250	22,8	4750
13,248	2760	15,648	3260	18,048	3760	20,448	4260	22,848	4760
13,296	2770	15,696	3270	18,096	3770	20,496	4270	22,896	4770
13,344	2780	15,744	3280	18,144	3780	20,544	4280	22,944	4780
13,392	2790	15,792	3290	18,192	3790	20,592	4290	22,992	4790
13,44	2800	15,84	3300	18,24	3800	20,64	4300	23,04	4800
13,488	2810	15,888	3310	18,288	3810	20,688	4310	23,088	4810
13,536	2820	15,936	3320	18,336	3820	20,736	4320	23,136	4820
13,584	2830	15,984	3330	18,384	3830	20,784	4330	23,184	4830
13,632	2840	16,032	3340	18,432	3840	20,832	4340	23,232	4840
13,68	2850	16,08	3350	18,48	3850	20,88	4350	23,28	4850
13,728	2860	16,128	3360	18,528	3860	20,928	4360	23,328	4860
13,776	2870	16,176	3370	18,576	3870	20,976	4370	23,376	4870
13,824	2880	16,224	3380	18,624	3880	21,024	4380	23,424	4880
13,872	2890	16,272	3390	18,672	3890	21,072	4390	23,472	4890
13,92	2900	16,32	3400	18,72	3900	21,12	4400	23,52	4900
13,968	2910	16,368	3410	18,768	3910	21,168	4410	23,568	4910
14,016	2920	16,416	3420	18,816	3920	21,216	4420	23,616	4920
14,064	2930	16,464	3430	18,864	3930	21,264	4430	23,664	4930
14,112	2940	16,512	3440	18,912	3940	21,312	4440	23,712	4940
14,16	2950	16,56	3450	18,96	3950	21,36	4450	23,76	4950
14,208	2960	16,608	3460	19,008	3960	21,408	4460	23,808	4960
14,256	2970	16,656	3470	19,056	3970	21,456	4470	23,856	4970
14,304	2980	16,704	3480	19,104	3980	21,504	4480	23,904	4980
14,352	2990	16,752	3490	19,152	3990	21,552	4490	23,952	4990

Flachsicherung 15A / 0,0048Ohm

mV	mA	mV	mA	mV	mA	mV	mA	mV	mA
24	5000	26,4	5500	28,8	6000	31,2	6500	33,6	7000
24,048	5010	26,448	5510	28,848	6010	31,248	6510	33,648	7010
24,096	5020	26,496	5520	28,896	6020	31,296	6520	33,696	7020
24,144	5030	26,544	5530	28,944	6030	31,344	6530	33,744	7030
24,192	5040	26,592	5540	28,992	6040	31,392	6540	33,792	7040
24,24	5050	26,64	5550	29,04	6050	31,44	6550	33,84	7050
24,288	5060	26,688	5560	29,088	6060	31,488	6560	33,888	7060
24,336	5070	26,736	5570	29,136	6070	31,536	6570	33,936	7070
24,384	5080	26,784	5580	29,184	6080	31,584	6580	33,984	7080
24,432	5090	26,832	5590	29,232	6090	31,632	6590	34,032	7090
24,48	5100	26,88	5600	29,28	6100	31,68	6600	34,08	7100
24,528	5110	26,928	5610	29,328	6110	31,728	6610	34,128	7110
24,576	5120	26,976	5620	29,376	6120	31,776	6620	34,176	7120
24,624	5130	27,024	5630	29,424	6130	31,824	6630	34,224	7130
24,672	5140	27,072	5640	29,472	6140	31,872	6640	34,272	7140
24,72	5150	27,12	5650	29,52	6150	31,92	6650	34,32	7150
24,768	5160	27,168	5660	29,568	6160	31,968	6660	34,368	7160
24,816	5170	27,216	5670	29,616	6170	32,016	6670	34,416	7170
24,864	5180	27,264	5680	29,664	6180	32,064	6680	34,464	7180
24,912	5190	27,312	5690	29,712	6190	32,112	6690	34,512	7190
24,96	5200	27,36	5700	29,76	6200	32,16	6700	34,56	7200
25,008	5210	27,408	5710	29,808	6210	32,208	6710	34,608	7210
25,056	5220	27,456	5720	29,856	6220	32,256	6720	34,656	7220
25,104	5230	27,504	5730	29,904	6230	32,304	6730	34,704	7230
25,152	5240	27,552	5740	29,952	6240	32,352	6740	34,752	7240
25,2	5250	27,6	5750	30	6250	32,4	6750	34,8	7250
25,248	5260	27,648	5760	30,048	6260	32,448	6760	34,848	7260
25,296	5270	27,696	5770	30,096	6270	32,496	6770	34,896	7270
25,344	5280	27,744	5780	30,144	6280	32,544	6780	34,944	7280
25,392	5290	27,792	5790	30,192	6290	32,592	6790	34,992	7290
25,44	5300	27,84	5800	30,24	6300	32,64	6800	35,04	7300
25,488	5310	27,888	5810	30,288	6310	32,688	6810	35,088	7310
25,536	5320	27,936	5820	30,336	6320	32,736	6820	35,136	7320
25,584	5330	27,984	5830	30,384	6330	32,784	6830	35,184	7330
25,632	5340	28,032	5840	30,432	6340	32,832	6840	35,232	7340
25,68	5350	28,08	5850	30,48	6350	32,88	6850	35,28	7350
25,728	5360	28,128	5860	30,528	6360	32,928	6860	35,328	7360
25,776	5370	28,176	5870	30,576	6370	32,976	6870	35,376	7370
25,824	5380	28,224	5880	30,624	6380	33,024	6880	35,424	7380
25,872	5390	28,272	5890	30,672	6390	33,072	6890	35,472	7390
25,92	5400	28,32	5900	30,72	6400	33,12	6900	35,52	7400
25,968	5410	28,368	5910	30,768	6410	33,168	6910	35,568	7410
26,016	5420	28,416	5920	30,816	6420	33,216	6920	35,616	7420
26,064	5430	28,464	5930	30,864	6430	33,264	6930	35,664	7430
26,112	5440	28,512	5940	30,912	6440	33,312	6940	35,712	7440
26,16	5450	28,56	5950	30,96	6450	33,36	6950	35,76	7450
26,208	5460	28,608	5960	31,008	6460	33,408	6960	35,808	7460
26,256	5470	28,656	5970	31,056	6470	33,456	6970	35,856	7470
26,304	5480	28,704	5980	31,104	6480	33,504	6980	35,904	7480
26,352	5490	28,752	5990	31,152	6490	33,552	6990	35,952	7490



Flachsicherung 15A / 0,0048Ohm

mV	mA	mV	mA	mV	mA	mV	mA	mV	mA
36	7500	38,4	8000	40,8	8500	43,2	9000	45,6	9500
36,048	7510	38,448	8010	40,848	8510	43,248	9010	45,648	9510
36,096	7520	38,496	8020	40,896	8520	43,296	9020	45,696	9520
36,144	7530	38,544	8030	40,944	8530	43,344	9030	45,744	9530
36,192	7540	38,592	8040	40,992	8540	43,392	9040	45,792	9540
36,24	7550	38,64	8050	41,04	8550	43,44	9050	45,84	9550
36,288	7560	38,688	8060	41,088	8560	43,488	9060	45,888	9560
36,336	7570	38,736	8070	41,136	8570	43,536	9070	45,936	9570
36,384	7580	38,784	8080	41,184	8580	43,584	9080	45,984	9580
36,432	7590	38,832	8090	41,232	8590	43,632	9090	46,032	9590
36,48	7600	38,88	8100	41,28	8600	43,68	9100	46,08	9600
36,528	7610	38,928	8110	41,328	8610	43,728	9110	46,128	9610
36,576	7620	38,976	8120	41,376	8620	43,776	9120	46,176	9620
36,624	7630	39,024	8130	41,424	8630	43,824	9130	46,224	9630
36,672	7640	39,072	8140	41,472	8640	43,872	9140	46,272	9640
36,72	7650	39,12	8150	41,52	8650	43,92	9150	46,32	9650
36,768	7660	39,168	8160	41,568	8660	43,968	9160	46,368	9660
36,816	7670	39,216	8170	41,616	8670	44,016	9170	46,416	9670
36,864	7680	39,264	8180	41,664	8680	44,064	9180	46,464	9680
36,912	7690	39,312	8190	41,712	8690	44,112	9190	46,512	9690
36,96	7700	39,36	8200	41,76	8700	44,16	9200	46,56	9700
37,008	7710	39,408	8210	41,808	8710	44,208	9210	46,608	9710
37,056	7720	39,456	8220	41,856	8720	44,256	9220	46,656	9720
37,104	7730	39,504	8230	41,904	8730	44,304	9230	46,704	9730
37,152	7740	39,552	8240	41,952	8740	44,352	9240	46,752	9740
37,2	7750	39,6	8250	42	8750	44,4	9250	46,8	9750
37,248	7760	39,648	8260	42,048	8760	44,448	9260	46,848	9760
37,296	7770	39,696	8270	42,096	8770	44,496	9270	46,896	9770
37,344	7780	39,744	8280	42,144	8780	44,544	9280	46,944	9780
37,392	7790	39,792	8290	42,192	8790	44,592	9290	46,992	9790
37,44	7800	39,84	8300	42,24	8800	44,64	9300	47,04	9800
37,488	7810	39,888	8310	42,288	8810	44,688	9310	47,088	9810
37,536	7820	39,936	8320	42,336	8820	44,736	9320	47,136	9820
37,584	7830	39,984	8330	42,384	8830	44,784	9330	47,184	9830
37,632	7840	40,032	8340	42,432	8840	44,832	9340	47,232	9840
37,68	7850	40,08	8350	42,48	8850	44,88	9350	47,28	9850
37,728	7860	40,128	8360	42,528	8860	44,928	9360	47,328	9860
37,776	7870	40,176	8370	42,576	8870	44,976	9370	47,376	9870
37,824	7880	40,224	8380	42,624	8880	45,024	9380	47,424	9880
37,872	7890	40,272	8390	42,672	8890	45,072	9390	47,472	9890
37,92	7900	40,32	8400	42,72	8900	45,12	9400	47,52	9900
37,968	7910	40,368	8410	42,768	8910	45,168	9410	47,568	9910
38,016	7920	40,416	8420	42,816	8920	45,216	9420	47,616	9920
38,064	7930	40,464	8430	42,864	8930	45,264	9430	47,664	9930
38,112	7940	40,512	8440	42,912	8940	45,312	9440	47,712	9940
38,16	7950	40,56	8450	42,96	8950	45,36	9450	47,76	9950
38,208	7960	40,608	8460	43,008	8960	45,408	9460	47,808	9960
38,256	7970	40,656	8470	43,056	8970	45,456	9470	47,856	9970
38,304	7980	40,704	8480	43,104	8980	45,504	9480	47,904	9980
38,352	7990	40,752	8490	43,152	8990	45,552	9490	47,952	9990

Flachsicherung 15A / 0,0048Ohm

mV	mA	mV	mA	mV	mA	mV	mA	mV	mA
48	10000	50,4	10500	52,8	11000	55,2	11500	57,6	12000
48,048	10010	50,448	10510	52,848	11010	55,248	11510	57,648	12010
48,096	10020	50,496	10520	52,896	11020	55,296	11520	57,696	12020
48,144	10030	50,544	10530	52,944	11030	55,344	11530	57,744	12030
48,192	10040	50,592	10540	52,992	11040	55,392	11540	57,792	12040
48,24	10050	50,64	10550	53,04	11050	55,44	11550	57,84	12050
48,288	10060	50,688	10560	53,088	11060	55,488	11560	57,888	12060
48,336	10070	50,736	10570	53,136	11070	55,536	11570	57,936	12070
48,384	10080	50,784	10580	53,184	11080	55,584	11580	57,984	12080
48,432	10090	50,832	10590	53,232	11090	55,632	11590	58,032	12090
48,48	10100	50,88	10600	53,28	11100	55,68	11600	58,08	12100
48,528	10110	50,928	10610	53,328	11110	55,728	11610	58,128	12110
48,576	10120	50,976	10620	53,376	11120	55,776	11620	58,176	12120
48,624	10130	51,024	10630	53,424	11130	55,824	11630	58,224	12130
48,672	10140	51,072	10640	53,472	11140	55,872	11640	58,272	12140
48,72	10150	51,12	10650	53,52	11150	55,92	11650	58,32	12150
48,768	10160	51,168	10660	53,568	11160	55,968	11660	58,368	12160
48,816	10170	51,216	10670	53,616	11170	56,016	11670	58,416	12170
48,864	10180	51,264	10680	53,664	11180	56,064	11680	58,464	12180
48,912	10190	51,312	10690	53,712	11190	56,112	11690	58,512	12190
48,96	10200	51,36	10700	53,76	11200	56,16	11700	58,56	12200
49,008	10210	51,408	10710	53,808	11210	56,208	11710	58,608	12210
49,056	10220	51,456	10720	53,856	11220	56,256	11720	58,656	12220
49,104	10230	51,504	10730	53,904	11230	56,304	11730	58,704	12230
49,152	10240	51,552	10740	53,952	11240	56,352	11740	58,752	12240
49,2	10250	51,6	10750	54	11250	56,4	11750	58,8	12250
49,248	10260	51,648	10760	54,048	11260	56,448	11760	58,848	12260
49,296	10270	51,696	10770	54,096	11270	56,496	11770	58,896	12270
49,344	10280	51,744	10780	54,144	11280	56,544	11780	58,944	12280
49,392	10290	51,792	10790	54,192	11290	56,592	11790	58,992	12290
49,44	10300	51,84	10800	54,24	11300	56,64	11800	59,04	12300
49,488	10310	51,888	10810	54,288	11310	56,688	11810	59,088	12310
49,536	10320	51,936	10820	54,336	11320	56,736	11820	59,136	12320
49,584	10330	51,984	10830	54,384	11330	56,784	11830	59,184	12330
49,632	10340	52,032	10840	54,432	11340	56,832	11840	59,232	12340
49,68	10350	52,08	10850	54,48	11350	56,88	11850	59,28	12350
49,728	10360	52,128	10860	54,528	11360	56,928	11860	59,328	12360
49,776	10370	52,176	10870	54,576	11370	56,976	11870	59,376	12370
49,824	10380	52,224	10880	54,624	11380	57,024	11880	59,424	12380
49,872	10390	52,272	10890	54,672	11390	57,072	11890	59,472	12390
49,92	10400	52,32	10900	54,72	11400	57,12	11900	59,52	12400
49,968	10410	52,368	10910	54,768	11410	57,168	11910	59,568	12410
50,016	10420	52,416	10920	54,816	11420	57,216	11920	59,616	12420
50,064	10430	52,464	10930	54,864	11430	57,264	11930	59,664	12430
50,112	10440	52,512	10940	54,912	11440	57,312	11940	59,712	12440
50,16	10450	52,56	10950	54,96	11450	57,36	11950	59,76	12450
50,208	10460	52,608	10960	55,008	11460	57,408	11960	59,808	12460
50,256	10470	52,656	10970	55,056	11470	57,456	11970	59,856	12470
50,304	10480	52,704	10980	55,104	11480	57,504	11980	59,904	12480
50,352	10490	52,752	10990	55,152	11490	57,552	11990	59,952	12490

Flachsicherung 15A / 0,0048Ohm

mV	mA	mV	mA	mV	mA	mV	mA	mV	mA
60	12500	62,4	13000	64,8	13500	67,2	14000	69,6	14500
60,048	12510	62,448	13010	64,848	13510	67,248	14010	69,648	14510
60,096	12520	62,496	13020	64,896	13520	67,296	14020	69,696	14520
60,144	12530	62,544	13030	64,944	13530	67,344	14030	69,744	14530
60,192	12540	62,592	13040	64,992	13540	67,392	14040	69,792	14540
60,24	12550	62,64	13050	65,04	13550	67,44	14050	69,84	14550
60,288	12560	62,688	13060	65,088	13560	67,488	14060	69,888	14560
60,336	12570	62,736	13070	65,136	13570	67,536	14070	69,936	14570
60,384	12580	62,784	13080	65,184	13580	67,584	14080	69,984	14580
60,432	12590	62,832	13090	65,232	13590	67,632	14090	70,032	14590
60,48	12600	62,88	13100	65,28	13600	67,68	14100	70,08	14600
60,528	12610	62,928	13110	65,328	13610	67,728	14110	70,128	14610
60,576	12620	62,976	13120	65,376	13620	67,776	14120	70,176	14620
60,624	12630	63,024	13130	65,424	13630	67,824	14130	70,224	14630
60,672	12640	63,072	13140	65,472	13640	67,872	14140	70,272	14640
60,72	12650	63,12	13150	65,52	13650	67,92	14150	70,32	14650
60,768	12660	63,168	13160	65,568	13660	67,968	14160	70,368	14660
60,816	12670	63,216	13170	65,616	13670	68,016	14170	70,416	14670
60,864	12680	63,264	13180	65,664	13680	68,064	14180	70,464	14680
60,912	12690	63,312	13190	65,712	13690	68,112	14190	70,512	14690
60,96	12700	63,36	13200	65,76	13700	68,16	14200	70,56	14700
61,008	12710	63,408	13210	65,808	13710	68,208	14210	70,608	14710
61,056	12720	63,456	13220	65,856	13720	68,256	14220	70,656	14720
61,104	12730	63,504	13230	65,904	13730	68,304	14230	70,704	14730
61,152	12740	63,552	13240	65,952	13740	68,352	14240	70,752	14740
61,2	12750	63,6	13250	66	13750	68,4	14250	70,8	14750
61,248	12760	63,648	13260	66,048	13760	68,448	14260	70,848	14760
61,296	12770	63,696	13270	66,096	13770	68,496	14270	70,896	14770
61,344	12780	63,744	13280	66,144	13780	68,544	14280	70,944	14780
61,392	12790	63,792	13290	66,192	13790	68,592	14290	70,992	14790
61,44	12800	63,84	13300	66,24	13800	68,64	14300	71,04	14800
61,488	12810	63,888	13310	66,288	13810	68,688	14310	71,088	14810
61,536	12820	63,936	13320	66,336	13820	68,736	14320	71,136	14820
61,584	12830	63,984	13330	66,384	13830	68,784	14330	71,184	14830
61,632	12840	64,032	13340	66,432	13840	68,832	14340	71,232	14840
61,68	12850	64,08	13350	66,48	13850	68,88	14350	71,28	14850
61,728	12860	64,128	13360	66,528	13860	68,928	14360	71,328	14860
61,776	12870	64,176	13370	66,576	13870	68,976	14370	71,376	14870
61,824	12880	64,224	13380	66,624	13880	69,024	14380	71,424	14880
61,872	12890	64,272	13390	66,672	13890	69,072	14390	71,472	14890
61,92	12900	64,32	13400	66,72	13900	69,12	14400	71,52	14900
61,968	12910	64,368	13410	66,768	13910	69,168	14410	71,568	14910
62,016	12920	64,416	13420	66,816	13920	69,216	14420	71,616	14920
62,064	12930	64,464	13430	66,864	13930	69,264	14430	71,664	14930
62,112	12940	64,512	13440	66,912	13940	69,312	14440	71,712	14940
62,16	12950	64,56	13450	66,96	13950	69,36	14450	71,76	14950
62,208	12960	64,608	13460	67,008	13960	69,408	14460	71,808	14960
62,256	12970	64,656	13470	67,056	13970	69,456	14470	71,856	14970
62,304	12980	64,704	13480	67,104	13980	69,504	14480	71,904	14980
62,352	12990	64,752	13490	67,152	13990	69,552	14490	71,952	14990