

**From BS 7671 Red book**

**Maximum Earth Loop Impedances for fuse with Disconnection time of 0.4 s  
For Final Circuits Table 41.2**

**Final Circuit is a circuit connected to current carrying equipment**

BS 88-1 & 88-2		BS 1361 Cartridge		BS 3036 Rewire	
Rating A	Zs Max	Rating A	Zs Max	Rating A	Zs Max
6	8.52 $\Omega$	5	10.45 $\Omega$	5	9.58 $\Omega$
10	5.11 $\Omega$	15	3.28 $\Omega$	15	2.55 $\Omega$
16	2.70 $\Omega$	20	1.70 $\Omega$	20	1.77 $\Omega$
20	1.77 $\Omega$	30	1.15 $\Omega$	30	1.09 $\Omega$
25	1.44 $\Omega$				
32	1.04 $\Omega$		BS1362	3	16.4 $\Omega$
				13	2.42 $\Omega$

**Maximum Earth Loop Impedances for fuse with Disconnection time of 5 s  
For Distribution Circuits Table 41.4**

**Distribution Circuit is a circuit supplying a distribution board or switchgear**

BS 88-1 & 88-2		BS 1361 Cartridge		BS 3036 Rewire	
Rating A	Zs Max	Rating A	Zs Max	Rating A	Zs Max
6	13.5 $\Omega$	5	16.4 $\Omega$	5	17.7 $\Omega$
10	7.42 $\Omega$				
16	4.18 $\Omega$	15	5.00 $\Omega$	15	5.35 $\Omega$
20	2.91 $\Omega$	20	2.80 $\Omega$	20	3.28 $\Omega$
25	2.30 $\Omega$				
32	1.84 $\Omega$	30	1.84 $\Omega$	30	2.64 $\Omega$
40	1.35 $\Omega$	45	0.96 $\Omega$	45	1.59 $\Omega$
50	1.04 $\Omega$				
63	0.82 $\Omega$	60	0.70 $\Omega$	60	1.12 $\Omega$
80	0.57 $\Omega$	80	0.50 $\Omega$		
100	0.42 $\Omega$	100	0.36 $\Omega$	100	0.53 $\Omega$
125	0.33 $\Omega$				
160	0.25 $\Omega$		BS1362	3	23.2 $\Omega$
200	0.19 $\Omega$			13	3.83 $\Omega$