TYPE : HEINELEC & HEIDIN SERIES

Maximum circuit lengths, that will ensure correct operation of circuit breakers on short circuit to provide protection against indirect contact (touch voltages) per AS/NZS 3000:2000 Appendix B5.

HEINELEC & HEIDIN SERIES								
Conductor Size		Circuit	Maximum Circuit Length L max. m					
Active	Earth	Breaker	Socket Outlets (0.4s)			Fixed Equipment (5s)		
mm2	mm2	Rating	HEIDIN	SFM Series Curve		HEIDIN	SFM Series Curve	
		Amps	Type C	C1	C2 (Std)	Type C	C1	C2 (Std)
1	1	10	57	50	57	65	65	121
1.5	1.5	10	85	75	85	98	98	182
1.5	1.5	16	53	47	53	61	61	114
2.5	2.5	16	88	78	88	101	101	190
2.5	2.5	20	71	62	71	81	81	152
4	2.5	25	70	61	70	80	80	150
4	2.5	32	54	47	54	62	62	117
6	2.5	40	50	44	50	57	57	107
10	4	50	65	57	65	75	75	139
16	6	63	79	69	79	91	91	168
16	6	80	–	54	62	–	71	132
25	6	80	–	60	69	–	79	147
25	6	100	–	48	55	–	63	118
35	10	100	–	78	88	–	101	189

CAUTION

Most of the maximum circuit lengths in the above table are not achievable due to voltage drop. This is particularly true for single phase circuits of smaller size conductors. During cable selection, current carrying capacity and voltage drop must be considered before fault loop impedance is checked.

NOTES:

- Calculations are made in accordance with AS/NZS 3000:2000 B5.2.2 at a nominal phase to earth voltage of 240V.
- Circuit lengths for SFM Series are based on ‘mean values’ as used in AS/NZS 3000 for Type B, C & D MCB’s.