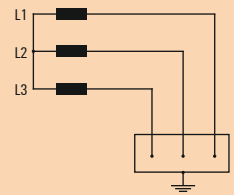
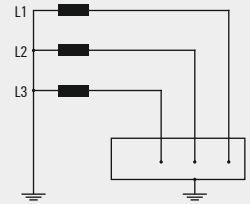
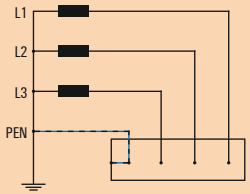
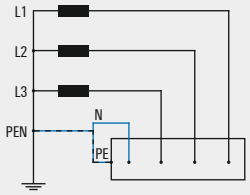
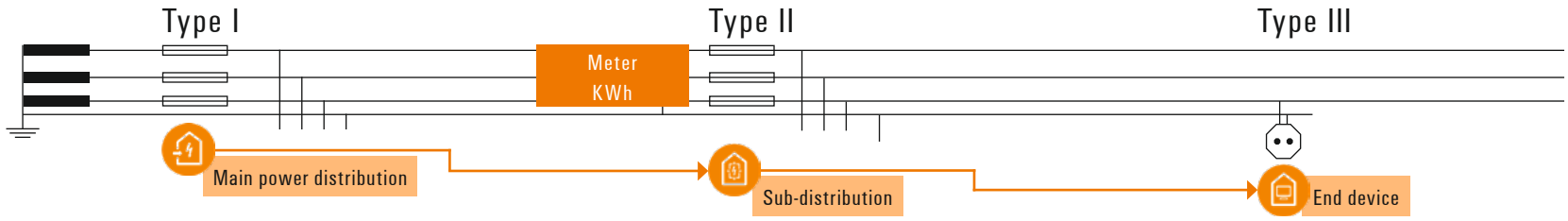
Grid system		Type I		Type II			Type III	
		Without remote contact	With remote contact		Without remote contact	With remote contact	Without remote contact	With remote contact
IT-grid		VPU AC I 3 440/25 LCF **2619160000 / 1622677** VPU AC I 3 480/10 **2591530000 / 1622675**	VPU AC I 3 R 440/25 LCF **2619170000 / 1622678** VPU AC I 3 R 480/10 **2591540000 / 1622676**	**1P for IT-grid**	VPU AC II 1 350/50 **2591350000 / 1622673**	VPU AC II 1 R 350/50 **2591360000 / 1622674**	VPU AC II+III 2 440/20 S **2908440000 / 1622702** VPU AC II+III 3 440/20 S **2908460000 / 1622704**	VPU AC II+III 2 R 440/20 S **2908450000 / 1622703** VPU AC II+III 3 R 440/20 S **2908470000 / 1622705**
				2P for IT-grid	VPU AC II 2 350/50 **2637010000 / 1622681**	VPU AC II 2 R 350/50 **2637020000 / 1622682**		
				Ground cable with distributed PE	VPU AC II 3 350/50 **2591100000 / 1622667**	VPU AC II 3 R 350/50 **2591110000 / 1622668**		
				Over ground cable without distributed PE	VPU AC II 3 350/50 **2591100000 / 1622667**	VPU AC II 3 R 350/50 **2591110000 / 1622668**		
TT-grid		VPU AC I 3+1 275/25 LCF S 2PE **2726760000 / 6610083** VPU AC I 3+1 300/12.5 LCF **2566910000 / 1622664**	VPU AC I 3+1 R 275/25 LCF S 2PE **2726770000 / 1622685** VPU AC I 3+1 R 300/12.5 LCF **2636920000 / 1622680**	**1P for TT-grid**	VPU AC II 1 300/50 **2591020000 / 1622665**	VPU AC II 1 R 300/50 **2591030000 / 1622666**	VPU AC II+III 1+1 275/20 S **2907930000 / 1622698** VPU AC II+III 3 275/20 S **2907870000 / 1622694**	VPU AC II+III 1+1 R 275/20 S **2907940000 / 1622699** VPU AC II+III 3 R 275/20 S **2907880000 / 1622695**
				Ground cable with distributed PE	VPU AC II 3 300/50 **2591160000 / 1622671**	VPU AC II 3 R 300/50 **2591170000 / 1622672**		
				Over ground cable without distributed PE	VPU AC II 3 300/50 **2591160000 / 1622671**	VPU AC II 3 R 300/50 **2591170000 / 1622672**		
				For TT-grid with integrated fuse	VPU AC II F 3 300/40 **2827600000 / 1622690**	VPU AC II F 3 R 300/40 **2807410000 / 1622688**		
TN-C-grid		VPU AC I 3 275/25 LCF S **2726740000 / 1622683** VPU AC I 3+1 300/12.5 LCF **2636910000 / 1622679**	VPU AC I 3 R 275/25 LCF S **2726750000 / 1622684** VPU AC I 3+1 R 300/12.5 LCF **2636920000 / 1622680**	**1P for TN-grid**	VPU AC II 1 300/50 **2591020000 / 1622665**	VPU AC II 1 R 300/50 **2591030000 / 1622666**	VPU AC II+III 2 275/20 S **2907830000 / 1622692** VPU AC II+III 3 275/20 S **2907870000 / 1622694**	VPU AC II+III 2 R 275/20 S **2907840000 / 1622693** VPU AC II+III 3 R 275/20 S **2907880000 / 1622695**
				Ground cable with distributed PE	VPU AC II 3 300/50 **2591160000 / 1622671**	VPU AC II 3 R 300/50 **2591170000 / 1622672**		
				For TN-C with integrated fuse	VPU AC II F 3 300/40 **2827600000 / 1622690**	VPU AC II F 3 R 300/40 **2807410000 / 1622688**		
TN-(C)-S- grid		VPU AC I 3+1 275/25 LCF S 2PE **2726760000 / 6610083** VPU AC I 3+1 300/12.5 LCF **2636910000 / 1622679** VPU AC I 4 275/25 LCF S **2726780000 / 1622686**	VPU AC I 3+1 R 275/25 LCF S 2PE **2726770000 / 1622685** VPU AC I 3+1 R 300/12.5 LCF **2636920000 / 1622680** VPU AC I 4 R 275/25 LCF S **2726790000 / 1622687**	**1P for TN-grid**	VPU AC II 1 300/50 **2591020000 / 1622665**	VPU AC II 1 R 300/50 **2591030000 / 1622666**	VPU AC II+III 3+1 275/20 S **2907950000 / 1622700** VPU AC II+III 4 275/20 S **2907890000 / 1622696**	VPU AC II+III 3+1 R 275/20 S **2907970000 / 1622701** VPU AC II+III 4 R 275/20 S **2907920000 / 1622697**
				Supply with both PE- or N-leder	VPU AC II 4 300/50 **2591140000 / 1622669**	VPU AC II 4 R 300/50 **2591150000 / 1622670**		
				For TN-(C)-S with integrated fuse	VPU AC II F 3+1 300/40 **2827630000 / 1622691**	VPU AC II F 3+1 R 300/40 **2807440000 / 1622689**		

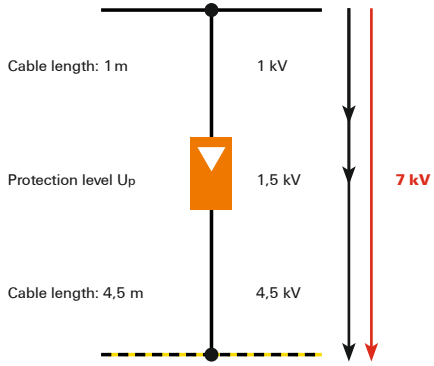


Installation information and technical basics

The direct lightining strike has a range of up to 2 km.

Voltage drop on the cable

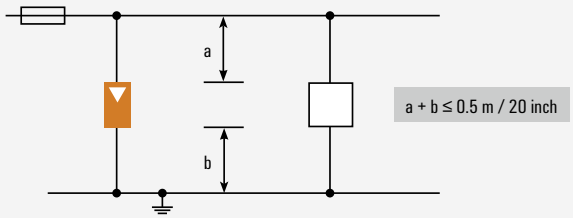
Long cables reduce the effectiveness of an SPD.
Inductivity: 1 m cabel will cause 1 kV.

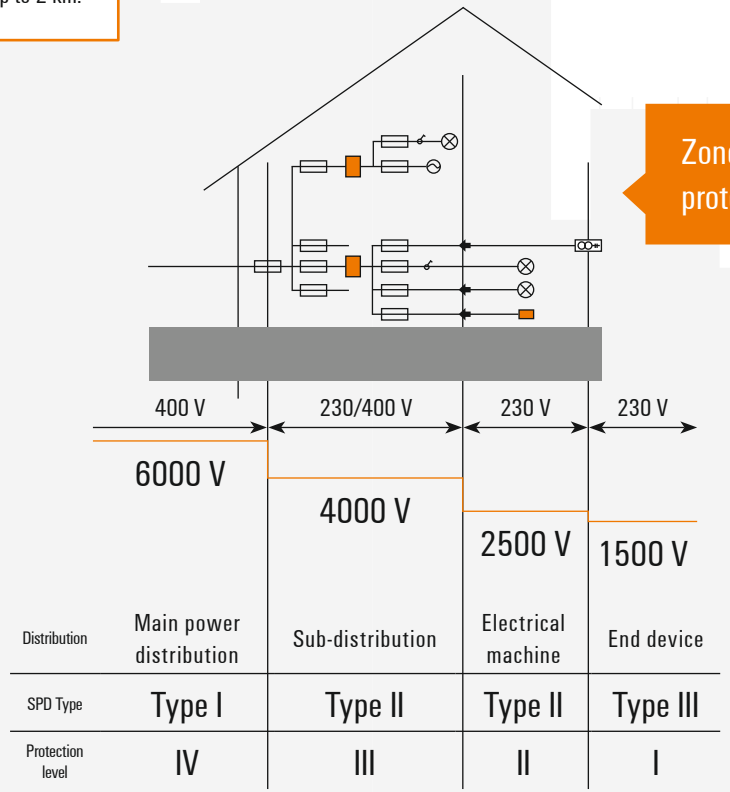


Specifications for the installation location

The standard requires a maximum cable length of the connecting lines of an SPD of ≤ 0.5 m.

Single branch wiring b must be as short as possible





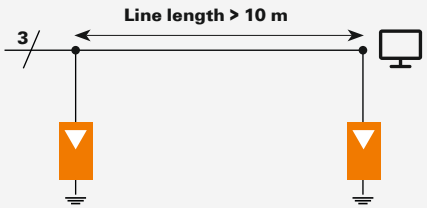
Zonebased surge protection concept

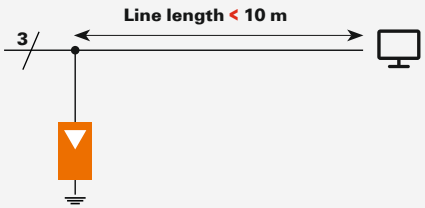
Type	Connection lines between SPD and outer conductors	Connection lines between SPD and main earth bar or protective conductor (PE or PEN)
Type I	6 mm²	16 mm²
Type II	2.5 mm²	6 mm²

Cross sections of the cables

Specifications for the protected area

The protective area of an SPD is 10 m.
If this is exceeded, another SPD ist required.





Weidmüller