





Cable length calculator and supporting downloads available at www.ampetronic.com/w52

EQUIPMENT REQUIRED FOR THIS DESIGN			
Product	Description	Unit Size	Qty
W5-2	5A MultiLoop Driver	Wall Mount	1
ACFB50U10 or ACFB50U12x2	Suitable flat copper tape as per design configuration and room size	50m	2
ACWP50	Adhesive Warning Tape	50m	2
2.5mm² Twist	ed Pair Feed Cable (client supplied)	5m	2

DESIGN SPECIFICATION						
Floor Type	Design Configuration	Cable Type	Base Current	Loss Allowance	Maximum Loop Array Width	Loop Inductance Switch Setting
Concrete with moderate reinforcement	Single Turn	ACFB50U10 — 1.0mm² Single Core Flat Copper Tape	3.15 Arms	4 dB	3.8 m	Low
Raised access metal system floor	Double Turn	ACFB50U12x2 — 1.2mm² Twin Core Flat Copper Tape	1.6 Arms	7.9 dB	4.0 m	Medium
		•	•	•	•	



Notes:

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Notes: 1. The loops must be installed and wired exactly as shown in the drawings.	
2. Tolerance for the dimension of any point is $+/-$ 50 mm.	
3. If there are obstructions not shown on the drawings the wire may be diverted up to 300mm sideways and 400mm along the length of the wire. Any larger diversion must be confirmed with Ampetronic to ensure performance is maintained.	
4. The loop is shown as a single continuous circuit, you should start and finish the circuit at the closest convenient point to the feed cable connecting to the amplifier.	
5. Any distance between loop tapes and the feed cable point should be covered with a pair of tapes run directly next to each other. This should be no greater than 500 mm total.	
6. The loops should be installed on the floor using flat copper tape and adhesive installation tape under the floor finish (carpet or vinyl).	
7. If used under particularly thin floor coverings, the line of the tape could be slightly visible. The installer is responsible for confirming the compatibility of all materials before they are used in the project.	
8. If installing flat copper tape on metal floor tiles an undertape layer should be used to offer additional protection between the floor and loop.	
9. Flat copper tape should not be covered with levelling compounds or other cement based materials without seeking specialist advice.	
10. Where joints are required between tape or cable these must be made using a suitably robust electrical connection, eg. solder or crimps, and re-insulated to the same level as the original cable.	
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Cuent: Ampetronic Ltd	
site: W-Series Standard Desians	
πι <u>ε:</u> 3.5m - 4.4m Room	
Scale at a3: Date: Drawn; Checked:   1:30 15/01/2024 ALJ CD   Drawing no: sheet: revision;	
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This design is intended for rooms with a Y dimension between 3.5m and 4.4m, the gap at the top and bottom of each arrow should be increased or descreased accordingly to keep the loop dimensions exactly as shown. In the X axis the design can be extended to fill the room up to the limits provided on page 1.

The gap to the left and right should be set based on the balance between coverage and spill control, where there are adjacent rooms a gap of 0.4m to 0.5m is recommended, however a smaller gap may be needed if there are seating position particularly close to one or more of the walls.

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## Indicative Signal Coverage at 1.2m listening height within the roor





	1. The co simulated si overspill to the loop lay drawing.	verage plot gnal within adjacent ara vout modelle	shows the roc eas bas d in th	om and sed on iis
n	2. The fie OdB +/-3d the areas o compliance	ld strength B re: 0.4Am f good cove with IEC 60	should 1—1 (RM erage ir 118—4.	be VIS) in N
	3. Both c be affected such as the installation of structures of	overage and by a numb accuracy c and the imp n site.	oversp er of f of the bact of	oill can actors, metal
	4. Overspi listening pla and should Ampetronic	II to areas nes is not i be confirme if required.	of diffe represe d with	erent nted
	5. Overspi with instrum guitars and microphones check that have been p performance	II can cause lents such c some dynar s, it is impo spill control provided to a areas.	e interf as elect mic rtant to measu any int	erence tric o res ended
	6. Actual on magnetic the space, by electrical loop system should be t	performance background which could equipment s, where po ested before	e may d noise be cau or adjo ssible t e install	depend within used acent this ation.
	7. Field s (spill) should -32dB re: 0 measured fr distances at tape:	strength out: d not be gr 0.4Am–1 (R rom the follo the edge o	side the eater t MS), owing of the	e room han loop
	North: 1.4m			
	East: 1.1m			
	South: 1.4m	1		
	West: 1.1m			
	8. If add required, e.g area to avo room, then of at least	itional spill o g. if there is id signal lec ensure a go 0.4m	control s a spe aving th ap to t	is ecific ne he wall
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Notes:



	Notes:
ss headroom.	1. Polarities and crossovers must be installed as shown in the layout drawings to ensure the loop performs as designed.
	2. When tape is used,
	directly next to each other, care should be taken to avoid short circuits at crossover points.
	3. When using cable, adjacent wires can be run in the same conduit or saw cut.
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