

Technical Note

Specific Separation Distances



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This Technical Note has been written to offer guidance with respect to separation distances for specific Electromagnetic Interference (EMI) sources.

The information to compile this technical note is from

BS EN 50174-2:2009 - Information technology- Cabling installation

– Part 2: Installation planning and practices inside buildings.

The following are specific items of equipment and the respective minimum separation distances from copper data cabling. These distances are to ensure compliance with Electromagnetic Compatibility (EMC)

Source of disturbance	Minimum separation	Note
Fluorescent lamps	130 mm	a
Neon lamps	130 mm	a
Mercury vapour lamps	130 mm	a
High-intensity discharge lamps	130 mm	a
Arc welders	800 mm	a
Frequency induction heating	1000 mm	a
Hospital equipment	b	b
Radio transmitter	b	b
Television transmitter	b	b
Radar	b	b

This list is Not exhaustive.

- Notes:
- a The minimum separations may be reduced provided that appropriate cable management systems are used or product suppliers guarantees are provided
 - b Where product suppliers guarantees do not exist, analysis shall be performed regarding possible disturbances. e.g. frequency range, harmonics, transients, bursts, transmitted power, etc.

This Technical Note has been produced by Simon Robinson, Product Manager, on behalf of Excel

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