

SUPPORTS FOR CABLES



Cross-section through a flat type cable, indicating the major axis
 Note: Wiring used in the electrical installation of a caravan must be of a type listed in Regulation 721.521.2.



Fig 1. Non-armoured cable maximum support spacing

| Cable overall diameter (mm) | Maximum support spacing | | | |
|-----------------------------------|------------------------------|--------------------|----------------------------|--------------------|
| | Horizontal ^b (mm) | | Vertical ^c (mm) | |
| | In general | Caravans | In general | Caravans |
| Up to 9 | 250 | 250 (all sizes) | 400 | 400 (all sizes) |
| Exceeding 9 but not exceeding 15 | 300 | | 400 | |
| Exceeding 15 but not exceeding 20 | 350 | | 450 | |
| Exceeding 20 but not exceeding 40 | 400 | | 550 | |



Fig 2. Armoured cable maximum support spacing

| Cable overall diameter (mm) | Maximum support spacing | |
|-----------------------------------|------------------------------|----------------------------|
| | Horizontal ^b (mm) | Vertical ^c (mm) |
| Exceeding 9 but not exceeding 15 | 350 | 450 |
| Exceeding 15 but not exceeding 20 | 400 | 550 |
| Exceeding 20 but not exceeding 40 | 450 | 600 |

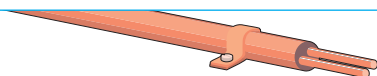


Fig 3. Mineral insulated copper sheathed (MICS) fixing

| Cable overall diameter (mm) | Maximum support spacing | |
|-----------------------------------|------------------------------|----------------------------|
| | Horizontal ^b (mm) | Vertical ^c (mm) |
| Up to 9 | 60 | 800 |
| Exceeding 9 but not exceeding 15 | 900 | 1200 |
| Exceeding 15 but not exceeding 20 | 1500 | 2000 |
| Exceeding 20 but not exceeding 40 | 2000 | 3000 |

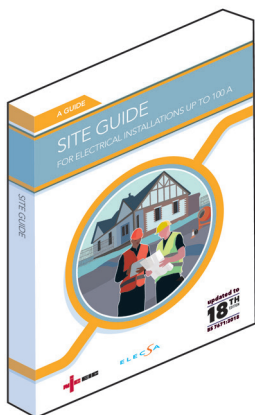
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Footnotes for tables

- a For flat type cables, the cable overall diameter (shown in Table 1) refers to the major axis (see illustration).
- b Horizontal spacings are applicable to runs at an angle of more than 30° from the vertical.
- c Vertical spacings are applicable to runs at an angle of 30° or less from the vertical.

Notes

- (1) This Guide provides a quick reference to spacings of cable support clips in accessible positions.
- (2) The basic requirements for the support of cables are given in Regulations 522.8.4 and 522.8.5 of BS 7671.
- (3) BS 7671 requires the intervals between cable supports (as well as the means of support) to be such that cables do not suffer mechanical damage or strain. Tables 1, 2 and 3 of this Guide give suggested maximum spacings between supports for both horizontal and vertical runs of accessible cable.
- (4) The means of fixing a cable must not cause damage to the cable.
- (5) As BS 7671 is principally concerned with the safety aspects of support systems, supports additional to those indicated in the tables are often needed to make the finished installation visually acceptable. Additional supports may also be needed in an installation subjected to vibration of medium or high severity, or where there is an increased risk of mechanical damage, such as by accidental snagging of the cable.
- (6) All cable supports are required to be of such construction that they will not prematurely collapse at times of fire. Non-metallic supports therefore should not be the sole means of cable support (521.10.202).



Guidance on this subject is covered in the NICEIC and ELECSA Site Guide

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18th Edition of the Wiring Regulations

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