



WLL 11M



WLL 15M



WLL 721



WLL 722



WLL 723

## WLL 7xx Cables for natural ventilation



Natural  
ventilation

### Application

- LSZH cables for comfort ventilation use

For description and dimensioning of the cables, see the following pages.

## Cable dimensions

For the maximum cable length to control unit panel in conjunction with standard actuators (taking into consideration the stated cable cross sections) please refer to the following table.

Maximum cable length: (always routed from the control panel to the last junction box)  
Actuator current: sum of all motor currents per group module

### Note

- do not use green/yellow (ground) wire!
- formula to calculate the max cable length
- maximum voltage drop in the cable UL: 2V
- cable length between control units using MotorLink® (Wxx xxM) and window actuators, however **maximum 50m!**

$$\text{Max cable length} = \frac{\text{admissible voltage drop (UL)} \times \text{conductivity of copper (56)} \times \text{cable cross section (a)}}{\text{total max. actuator current (I) in amps} \times 2}$$

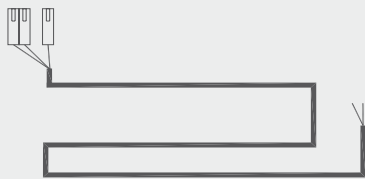
Cable specifications is a guide only, overall responsibility resides with the electrical contractor on site.

## Max. cable length when actuator is connected to power supply

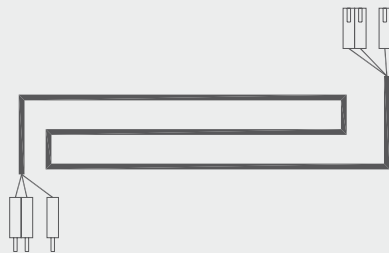
| Cable cross section (a)<br>(do not use green/yellow<br>(ground) wire!) | 3 x<br>0.75 mm <sup>2</sup> | 3 x<br>1.50 mm <sup>2</sup> | 3 x<br>2.50 mm <sup>2</sup> | 3 x<br>4.00 mm <sup>2</sup> | 3 x<br>6.00 mm <sup>2</sup> | 5 x 1.50 mm <sup>2</sup><br>2 wires in<br>parallel | 5 x 2.50 mm <sup>2</sup><br>2 wires in<br>parallel |        |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|--------|
| Total actuator current [I]   |                             |                             |                             |                             |                             |  |  |        |
| <b>±24V power supply</b>   |                             |                             |                             |                             |                             |  |  |        |
| 1A   | 42                          | 84                          | 140                         | 224                         | 336                         | 168  | 280  | meters |
| 2A   | 21                          | 42                          | 70                          | 112                         | 168                         | 84   | 140  | meters |
| 3A   | 14                          | 28                          | 47                          | 75                          | 112                         | 56   | 93   | meters |
| 4A   | 11                          | 21                          | 35                          | 56                          | 84                          | 42   | 70   | meters |
| 5A   | 8                           | 17                          | 28                          | 45                          | 67                          | 34   | 56   | meters |
| 6A   | 7                           | 14                          | 23                          | 37                          | 56                          | 28   | 47   | meters |
| 7A   | 6                           | 12                          | 20                          | 32                          | 48                          | 24   | 40   | meters |
| 8A   | 5                           | 11                          | 18                          | 28                          | 42                          | 21   | 35   | meters |
| <b>MotorLink® power supply</b>   |                             |                             |                             |                             |                             |  |  |        |
| 1A   | 42                          | 50                          | 50                          | 50                          | 50                          | 50   | 50   | meters |
| 2A   | 21                          | 42                          |                             |                             |                             |  |  | meters |
| 3A   | 14                          | 28                          | 47                          | 50                          | 50                          | 50   | 50   | meters |
| 4A   | 11                          | 21                          | 35                          |                             |                             |  |  | meters |
| 5A   | 8                           | 17                          | 28                          | 45                          | 50                          | 50   | 50   | meters |
| 6A   | 7                           | 14                          | 23                          | 37                          |                             |  |  | 28     |
| 7A   | 6                           | 12                          | 20                          | 32                          | 48                          | 24   | 40   | meters |
| 8A   | 5                           | 11                          | 18                          | 28                          | 42                          | 21   | 35   | meters |

**WLL 11M**

|                          |  |
|--------------------------|--|
| <b>Material</b>          | LSZH, grey<br>5m, 3-core 0.75mm <sup>2</sup> |
| <b>Application</b>       | extension cable                              |
| <b>Delivery includes</b> | 1 x cable with attached fast-on plug         |

**WLL 15M**

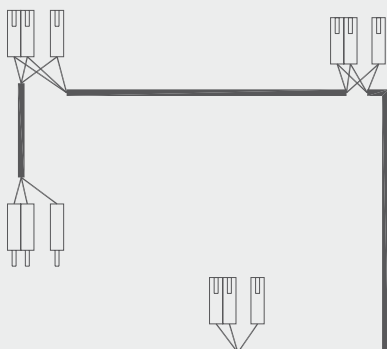
|                          |   |
|--------------------------|---|
| <b>Material</b>          | LSZH, grey<br>10m, 3-core 0.75mm <sup>2</sup> |
| <b>Application</b>       | extension cable                               |
| <b>Delivery includes</b> | 1 x cable with attached fast-on plug          |

**WLL 721**

|                          |   |
|--------------------------|---|
| <b>Material</b>          | LSZH, grey<br>6m 3-core 0.75mm <sup>2</sup>     |
| <b>Application</b>       | extension cable                                 |
| <b>Delivery includes</b> | 1 x cable with attached fast-on plug and socket |

**WLL 722**

|                          |   |
|--------------------------|---|
| <b>Material</b>          | LSZH, grey<br>2m 3-core 0.75mm <sup>2</sup><br>0.1m, 3-core 0.75mm <sup>2</sup> |
| <b>Application</b>       | cable for 2 WMX   |
| <b>Delivery includes</b> | 2 x cable with attached plug and socket   |

**WLL 723**

|                          |   |
|--------------------------|---|
| <b>Material</b>          | LSZH, grey<br>2 x 2m (3-core 1.50mm <sup>2</sup> )<br>0.1m, (3-core 1.50mm <sup>2</sup> ) |
| <b>Application</b>       | cable for 3 WMX   |
| <b>Delivery includes</b> | 3 x cable with attached fast-on plug and socket   |

WLL 7xx

## Cables for natural ventilation

| Items   | Item no. |
|---|----------|
| Cable for 1 actuator WMX, ventilation (5m 3-core 0.75mm <sup>2</sup> )  | WLL 11M  |
| Cable for 1 actuator WMX, ventilation (10m 3-core 0.75mm <sup>2</sup> )                                       | WLL 15M  |
| Cable for connecting 2 actuators WMX, ventilation (6m 3-core 0.75mm <sup>2</sup> )                            | WLL 721  |
| Cable for 2 actuators WMX, ventilation (2m 3-core 0.75mm <sup>2</sup> + 0.1m 3-core 0.75mm <sup>2</sup> )     | WLL 722  |
| Cable for 3 actuators WMX, ventilation (2 x 2m 3-core 1.50mm <sup>2</sup> + 0.1m 3-core 1.50mm <sup>2</sup> ) | WLL 723  |