

WLL 7xx

# Cables for 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) (do not use green/yellow (ground) wire!)	3 x 0.75 mm <sup>2</sup>	3 x 1.50 mm <sup>2</sup>	3 x 2.50 mm <sup>2</sup>	3 x 4.00 mm <sup>2</sup>	3 x 6.00 mm <sup>2</sup>	5 x 1.50 mm <sup>2</sup> 2 wires in parallel	5 x 2.50 mm <sup>2</sup> 2 wires in 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 5m, 3-core 0.75mm <sup>2</sup>
<b>Application</b>	cable for connection of WMB with control unit
<b>Delivery includes</b>	1 x cable with attached fast-on plug

**WLL 15M**

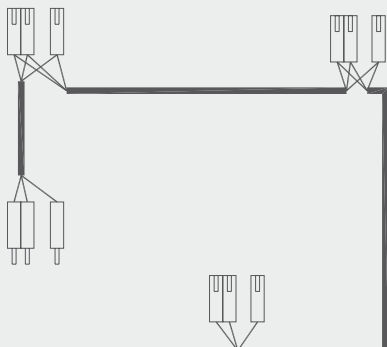
<b>Material</b>	LSZH, grey 10m, 3-core 0.75mm <sup>2</sup>
<b>Application</b>	cable for connection of WMB with control unit
<b>Delivery includes</b>	1 x cable with attached fast-on plug

**WLL 721**

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

**WLL 722**

<b>Material</b>	LSZH, grey 2m 3-core 0.75mm <sup>2</sup> 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 2 x 2m (3-core 1.50mm <sup>2</sup> ) 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