



WLL 121



WLL 121 E1



WLL 121 E2



WLL 122



WLL 122 E

WLL 1xx Cables for natural ventilation



Natural
ventilation



Smoke
ventilation

Application

- silicone cable for comfort and smoke ventilation use. The Molex MicroFit connector can withstand operating temperatures up to 125°C, to be replaced with ceramic connector if the installation requires higher temperature resistance.

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

Cable is to be installed according to national guidelines.

Cable dimensions

For the maximum cable lengths to SHV control in conjunction with standard actuators (taking the stated cable cross sections into consideration) 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 actuator currents per group module

Note

- 3-core wires are required for each actuator supply cable (- / + / monitoring purpose) until the last junction box.
- green/yellow (ground) wires are not to be used!
- maximum voltage drop in the cable UL: 2V
- formula for the calculation of the maximum cable length
- 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 ²	3 x 1.50 mm ²	3 x 2.50 mm ²	3 x 4.00 mm ²	3 x 6.00 mm ²	5 x 1.50 mm ² 2 wires in parallel	5 x 2.50 mm ² 2 wires in parallel	
Total actuator current [I]								
±24V power supply								
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
MotorLink® power supply								
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					42
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

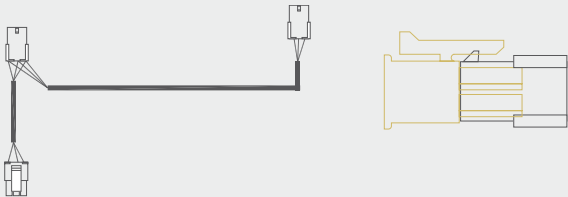
Extension cables

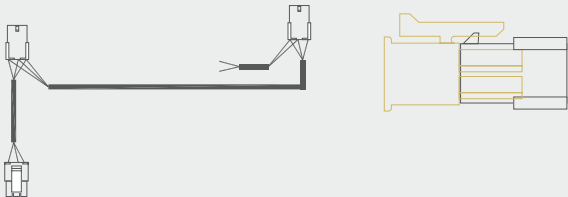
WLL 121	
	Material silicone, black 5m, 3-core 0.34mm ²
	Application extension cable
	Delivery includes 1 x cable with attached Molex Micro-Fit connector and fast-on socket

WLL 121E1	
	Material silicone, black 5m, 5-core 0.34mm ² (2-core for entrapment connection)
	Application extension cable
	Delivery includes 1 x cable with attached Molex Micro-Fit connector and fast-on socket

WLL 121E2	
	Material silicone, black 1 x 5m, 3-core 0.34mm ² 1 x 0.165m, 2-core 0.34mm ² (for entrapment connection)
	Application extension cable
	Delivery includes 2 x cable with attached Molex Micro-Fit connector and fast-on socket

Connection cables

WLL 122	
	Material silicone, black 1 x 1.5m, 3-core 0.34mm ² 1 x 0.15m, 3-core 0.34mm ²
	Application cable for 2 actuators
	Delivery includes 2 x cable with attached Molex Micro-Fit connectors

WLL 122E	
	Material silicone, black 1 x 1.5m, 3-core 0.34mm ² 1 x 0.15m, 3-core 0.34mm ² 1 x 0.165m, 2-core 0.34mm ² (for entrapment connection)
	Application cable for 2 actuators
	Delivery includes 3 x cable with attached Molex Micro-Fit connectors

WLL 1xx

Cables for natural ventilation

Items	Item no.
Extension cable. Only for actuators with Molex Micro-Fit connectors.	WLL 121
Extension cable with entrapment connection. Only for actuators with Molex Micro-Fit connectors.	WLL 121E1
Extension cable with entrapment connection. Only for actuators with Molex Micro-Fit connectors.	WLL 121E2
Connection cable for 2 actuators. Only for actuators with Molex Micro-Fit connectors.	WLL 122
Connection cable for 2 actuators with entrapment connection. Only for actuators with Molex Micro-Fit connectors.	WLL 122E