Wire Distance from Controller to Solenoids

High Station Count Controller · https://husqvarna-water.com/knowledgebase/wire-distance-from-controller-to-solenoids/

Below is a chart indicating the maximum wire run between the controller and the solenoids.

If you are using the same size wire for all your connections

Wire Sizing (Feet)

	Terminal (Station/Hot/Valve) Wire (colored)						
Common (White)	**18**	**16**	**14**	**12**	**10**	**8**	**6**
18	850	1040	1210	1350	1460	1540	1590
16	1040	1340	1650	1920	2150	2330	2440
14	1210	1650	2150	2630	3080	3450	3700
12	1350	1920	2630	3390	4170	4880	5400
10	1460	2150	3080	4170	5400	6670	7650
8	1540	2330	3450	4880	6670	8700	10530
6	1590	2440	3700	54000	7690	10530	13330

Notes:

Maximum one-way distance in feet between controller and heavy-duty solenoid: 24 VAC, 350 mA inrush current, 190 mA holding current, 60 Hz; 370 mA inrush current, 210 mA holding current, 50 Hz

Wire Sizing (Metric)

	Terminal (Station/Hot/Valve) Wire (colored)					
Common (White)	**0.5**	**1**	**1.5**	**2.5**	**4**	**6**
0.5	140	190	210	235	250	260
1.0	190	290	335	415	465	495
1.5	208	335	397	515	595	647
2.5	235	415	515	730	900	1030
4.0	250	465	595	900	1175	1405
6.0	260	495	647	1030	1405	1745

Notes:

Maximum one-way distance in meters between controller and Heavy-duty solenoid: 24 VAC, 350 mA inrush current, 190 mA holding current, 60 Hz; 370 mA inrush current, 210 mA holding current, 50 Hz