

ESP-2WIRE Wire Distance Chart

IMPERIAL



NO MV/PUMP START RELAY		TWO SOLENOIDS SIMULTANEOUSLY (MV+STATION OR TWO STATIONS)			PUMP START RELAY (PSR) ON MV		
Wire Gauge	Max. wire length from controller for single solenoid operation (ft)	Wire Gauge	Dist. of first solenoid from controller (ft)	Max. wire length from controller for second solenoid (ft)	Wire Gauge	Dist. of PSR from controller (ft)	Max. wire length from controller for other stations (ft)
18 AWG (0.75 mm ²)	1000	18 AWG (0.75 mm ²)	50	880	18 AWG (0.75 mm ²)	50	860
			100	840		100	800
			200	760		200	690
			350	650		350	510
			500	530			
16 AWG (1.5 mm ²)	1600	16 AWG (1.5 mm ²)	50	1420	16 AWG (1.5 mm ²)	50	1400
			100	1380		100	1350
			200	1310		200	1230
			350	1190		350	1060
			500	1070		500	880
14 AWG (2.5 mm ²)	2600	14 AWG (2.5 mm ²)	50	2280	14 AWG (2.5 mm ²)	50	2270
			100	2250		100	2210
			200	2170		200	2090
			350	2050		350	1920
			500	1940		500	1740
12 AWG (4.0 mm ²)	4200	12 AWG (4.0 mm ²)	50	3660	12 AWG (4.0 mm ²)	50	3640
			100	3620		100	3580
			200	3540		200	3460
			350	3420		350	3290
			500	3310		500	3120

ESP-2WIRE Wire Distance Chart

METRIC



NO MV/PUMP START RELAY		TWO SOLENOIDS SIMULTANEOUSLY (MV+STATION OR TWO STATIONS)			PUMP START RELAY (PSR) ON MV		
Wire Gauge	Max. wire length from controller for single solenoid operation (m)	Wire Gauge	Dist. of MV from controller (m)	Max. wire length from controller for second solenoid (m)	Wire Gauge	Dist. of PSR from controller (m)	Max. wire length from controller for other stations (m)
18 AWG (0.75 mm ²)	305	18 AWG (0.75 mm ²)	15	268	18 AWG (0.75 mm ²)	15	262
			30	256		30	244
			61	232		61	210
			107	198		107	155
			152	162			
16 AWG (1.5 mm ²)	488	16 AWG (1.5 mm ²)	15	433	16 AWG (1.5 mm ²)	15	427
			30	421		30	411
			61	399		61	375
			107	363		107	323
			152	326		152	268
14 AWG (2.5 mm ²)	792	14 AWG (2.5 mm ²)	15	695	14 AWG (2.5 mm ²)	15	692
			30	686		30	674
			61	661		61	637
			107	625		107	585
			152	591		152	530
12 AWG (4.0 mm ²)	1280	12 AWG (4.0 mm ²)	15	1116	12 AWG (4.0 mm ²)	15	1109
			30	1103		30	1091
			61	1079		61	1055
			107	1042		107	1003
			152	1009		152	951