

## Individual Housings and Contacts



Specifications			
Model	PP75	PP120	PP180
UL amperage*/voltage rating	75AMPS/600VDC	120AMPS/600VDC	180AMPS/600VDC
Operating temperature range	-20° to 105°C	-20° to 105°C	-20° to 105°C
Current Rating	75AMPS on 6AWG wire produces 30°C rise	120AMPS on 2AWG wire produces 30°C rise	180AMPS on 1/0AWG wire produces 35°C rise
Insulation withstanding test voltage (VOLTS, DC)	2200DC	2200DC	2200DC
Maximum wire diameter	0.44"/11mm	0.50"/13mm	0.75"/19mm
Average contact retention force	Approximately 50lbs	Approximately 100lbs	Approximately 150lbs
Average contact resistance	With 1 1/4" (32mm) of 6AWG wire 200 micro-ohms	With 1 1/2" (38mm) of 2AWG wire 150 micro-ohms	With 1 3/4" (45mm) of 1/0AWG wire 100 micro-ohms
Vibration resistance	Excellent	Excellent	Excellent
Mating cycles	10,000 For disconnect use only	10,000 For disconnect use only	10,000 For disconnect use only
Impact resistance	High	High	High
Environmental restrictions	Protected - No hydrocarbon fluids	Protected - No hydrocarbon fluids	Protected - No hydrocarbon fluids
Average mating and unmating force	7lbs (6.75kg)	10lbs (9.00kg)	12lbs (11.25kg)
Flammability Rating	UL94V-2	UL94V-2	UL94V-2



Stacked Power Poles (unmated)



Stacked Power Poles (mating)



Stacked Power Poles (mated)

Housing Part Number	Housing Description	Contacts Part Number	Contact Gauges
PP75-BLU	75 AMP blue connector	SY50-TIP6	6 AWG
		SY50-TIP8	8 AWG
		SY50-TIP10	10-12 AWG
PP75-BLK	75 AMP black connector	SY50-TIP6	6 AWG
		SY50-TIP10	10-12 AWG
		SY50-TIP6	6 AWG
PP75-WHT	75 AMP white connector	SY50-TIP10	10-12 AWG
		SY50-TIP6	6 AWG
		SY50-TIP10	10-12 AWG
PP75-RED	75 AMP red connector	SY50-TIP6	6 AWG
		SY50-TIP10	10-12 AWG
		SY50-TIP6	6 AWG
PP75-GRN	75 AMP green connector	SY50-TIP6	6 AWG
		SY50-TIP8	8 AWG
		SY50-TIP10	10-12 AWG
		SY50-TIP10	10-12 AWG
PP120-BLU	120 AMP blue connector	PP120-TIP2	2 AWG
		PP120-TIP4	4 AWG
		PP120-TIP6	6 AWG
PP120-BLK	120 AMP black connector	PP120-TIP2	2 AWG
		PP120-TIP4	4 AWG
		PP120-TIP6	6 AWG
PP120-WHT	120 AMP white connector	PP120-TIP2	2 AWG
		PP120-TIP4	4 AWG
		PP120-TIP6	6 AWG
PP120-RED	120 AMP red connector	PP120-TIP2	2 AWG
		PP120-TIP4	4 AWG
		PP120-TIP6	6 AWG

Housing Part Number	Housing Description	Contacts Part Number	Contact Gauges
PP120-GRN	120 AMP green connector	PP120-TIP2	2 AWG
		PP120-TIP4	4 AWG
		PP120-TIP6	6 AWG
PP180-BLU	180 AMP blue connector	SY175-TIP1/0	1/0
		SY175-TIP1	1 AWG
		SY175-TIP2	2 AWG
		SY175-TIP4	4 AWG
PP180-BLK	180 AMP black connector	SY175-TIP1/0	1/0
		SY175-TIP1	1 AWG
		SY175-TIP2	2 AWG
		SY175-TIP4	4 AWG
PP180-WHT	180 AMP white connector	SY175-TIP1/0	1/0
		SY175-TIP1	1 AWG
		SY175-TIP2	2 AWG
		SY175-TIP4	4 AWG
PP180-RED	180 AMP red connector	SY175-TIP1/0	1/0
		SY175-TIP1	1 AWG
		SY175-TIP2	2 AWG
		SY175-TIP4	4 AWG
PP180-GRN	180 AMP green connector	SY175-TIP1/0	1/0
		SY175-TIP1	1 AWG
		SY175-TIP2	2 AWG
		SY175-TIP4	4 AWG