

# BIRNS AQUAMATE

## Current Rating Guidelines

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**NOMINAL CURRENT PER AWG AND WIRE COUNT**

Wire Current Rating per AWG and number of conductors													
	number of conductors												
	#2	#3	#4	#5	#6	#7	#8	#9	#10	#12	#13	#16	#20
<b>20 AWG</b>	6	5	5	4	4	4	4	3	3	3	3	3	3
<b>18 AWG</b>	8	7	6	6	6	5	5	5	5	4	4	4	4
<b>16 AWG</b>	12	10	9	8	8	7	7	7	7	6	6	6	5
<b>14 AWG</b>	18	15	14	13	12	11	11	10	10	9	9	8	8
<b>12 AWG</b>	23	20	18	17	16	15	14	14	13	12	12	11	10
<b>10 AWG</b>	29	25	23	21	20	19	18	17	16	15	15	14	13
<b>8 AWG</b>	41	35	32	29	28	26	25	24	23	21	21	19	18
<b>6 AWG</b>	53	45	41	38	35	34	32	31	29	28	27	25	23
<b>4 AWG</b>	70	61	55	50	47	45	43	41	39	37	36	33	31
<b>2 AWG</b>	93	81	73	67	63	60	57	54	52	49	48	44	41

For example, a 18 AWG x 2 pin connector will have a 8 amp rating per wire.  
The number of conductors refers to electrically loaded conductors.

**NOMINAL VALUE MODIFIERS**

Cable length modifier	
Cable length	Correction Factor
15.2 m (50 ft)	0.7

Ambient Temperature modifier		
Ambient Temperature (°C)	Ambient Temperature (°F)	Correction Factor
10 or less	50 or less	1.2
11-15	51-59	1.15
16-20	60-68	1.11
21-25	69-77	1.05
26-30	78-86	1
31-35	87-95	0.94
36-40	96-104	0.88
41-45	105-113	0.82
46-50	114-122	0.75
51-55	123-131	0.67
56-60	132-140	0.58
61-65	141-149	0.47
66-70	150-158	0.33