

Protect Your Boat With the Correct Size Wire, Fuse, and Fuse Holder

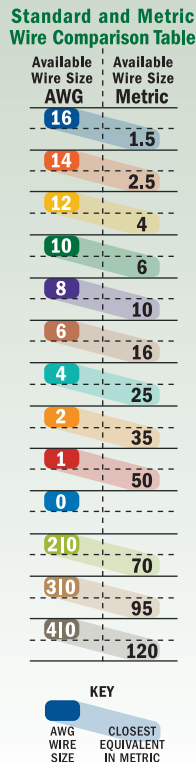
U.S. Coast Guard and other regulatory agencies require all circuits, except the starting circuit, to be protected with a circuit breaker or a fuse.
For 24V DC Systems divide distance by 2 or consult the Circuit Wizard at www.circuitwizard.blueseasystems.com

STEP 1 Choose the Correct Wire

Calculations are based on 105°C wire. For more detailed calculations, consult the Circuit Wizard at www.circuitwizard.blueseasystems.com

- A** Locate the **CURRENT FLOW IN AMPS** of your circuit along the top of the chart to the right.
- B** Select the **CIRCUIT TYPE**.
Non-critical circuits with 10% allowable voltage drop include: general lighting, windlasses, bait pumps, general appliances
Critical circuits with 3% allowable voltage drop include: panel main feeders, bilge blowers, electronics, navigation lights
- C** Find the **CIRCUIT LENGTH** along the left side of the chart.
The circuit length is the length of the negative wire added to the length of the positive wire.
Calculations are based on 105°C wire. For wire rated at 90°C or lower, or for wire that passes through an engine room, the first row of the chart, in gray, does not apply.
- D** Intersect the **CURRENT FLOW IN AMPS** with **CIRCUIT LENGTH** to identify the correct wire size.
Example: A windlass rated 80A is 25 ft. from the battery. The circuit length is the total length of the positive and negative wire added together, which in this example is 50 ft. The circuit type is 'non-critical', and the correct wire size is 4 AWG.

WIRE SIZE CHART Black circles indicate actual diameter of wire (not including insulation)



CIRCUIT TYPE				CURRENT FLOW IN AMPS																	
10% VOLTAGE DROP Non Critical		3% VOLTAGE DROP Critical		5A	10A	15A	20A	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	150A	200A		
CIRCUIT LENGTH	0 to 20 ft	0 to 6.1 M	0 to 6 ft	0 to 1.8 M	16 AWG	16 AWG	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	1 AWG	2/0 AWG
	30 ft	9.1 M	10 ft	3.0 M	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	2/0 AWG	2/0 AWG
	50 ft	15.2 M	15 ft	4.6 M	16 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG
	65 ft	19.8 M	20 ft	6.1 M	14 AWG	10 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	2 AWG	2 AWG	1 AWG	1 AWG	1 AWG	0 AWG	2/0 AWG
	80 ft	24.4 M	25 ft	7.6 M	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	1 AWG	1 AWG	0 AWG	0 AWG	3/0 AWG	3/0 AWG
	100 ft	30.5 M	30 ft	9.1 M	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	0 AWG	2/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG
	130 ft	39.6 M	40 ft	12.2 M	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	2/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG
	165 ft	50.3 M	50 ft	15.2 M	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG		
	200 ft	61.0 M	60 ft	18.3 M	4 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG			
			70 ft	21.3 M	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG					
			80 ft	24.4 M	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG						
			90 ft	27.4 M	8 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG							
			100 ft	30.5 M	6 AWG	4 AWG	2 AWG	1 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG							
		110 ft	33.5 M	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	0 AWG	3/0 AWG	4/0 AWG	4/0 AWG									
		120 ft	36.6 M	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG									
		130 ft	39.6 M	6 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG									

STEP 2 Choose the Correct Fuse and Fuse Amperage

Calculations are based on 105°C wire. For lower temperature rated wire, consult the Circuit Wizard at www.circuitwizard.blueseasystems.com

- A** Choose a fuse from the list on the top of the chart to the right by following along the line of the **AWG WIRE SIZE** determined from Step 1. Appropriate fuses will have a gray bar that intersects the line.
- B** The appropriate fuse amperage will be found in one of the four gray bars below the selected fuse type.
- Single Wire, Outside Engine Room = First column dark gray bar
 - Single Wire, Inside Engine Room = First column light gray bar
 - Bundled Wire, Outside Engine Room = Second column dark gray bar
 - Bundled Wire, Inside Engine Room = Second column light gray bar
- Example: For a 4 AWG single 105°C rated wire outside an engine room, the maximum fuse amperage is 150A.*

Note:
Possible fuse amperages for a circuit can fall between a range of maximum and minimum fuse amperages. The procedure above calculates the maximum fuse amperage which reduces nuisance blows but may offer less protection than a lower amperage fuse. The minimum fuse amperage is calculated by multiplying the current flow in amps by 125%.

If the product instructions specify a fuse amperage, use that value if it is under the maximum amperage found in the above procedure. If the specified fuse amperage is over the maximum suggested, move down the column and choose the wire size that intersects with the specified fuse amperage.

LEGEND		AGC® MDL®		ATO® or ATC® Fuse		MAXI™ Fuse		AMI® or MIDI® Fuse		MRBF TERMINAL Fuse		MEGA® or AMG® Fuse		CLASS T Fuse		ANL® Fuse	
		Outside Engine Room															
		Inside Engine Room															
		.25A to 30A		1A to 30A		30A to 80A		30A to 200A		30A to 300A		100A to 300A		225A to 400A		35A to 400A	
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		SINGLE WIRE		BUNDLED WIRES		SINGLE WIRE		BUNDLED WIRES		SINGLE WIRE		BUNDLED WIRES		SINGLE WIRE		BUNDLED WIRES	
		SINGLE WIRE		BUNDLED WIRES		SINGLE WIRE		BUNDLED WIRES		SINGLE WIRE		BUNDLED WIRES		SINGLE WIRE		BUNDLED WI	

STEP 3 Choose a Fuse Holder

- A** Using the same colored headings as in the steps above, follow the columns down to find fuse holders or fuse blocks that meet your specific requirements.
- B** Consider environmental factors:
- Ignition protection is required where flammable vapors may accumulate.
Example: Engine room and propane locker
Consult American Boat and Yacht Council (ABYC) E-11.5.3 for Ignition Protection
 - Ingress protection protects fuses from spray, washdown, and humidity.
IP66-protected against powerful water jets
- C** Decide between an in-line fuse holder or a fuse block:
- In-line fuse holders are compact and hold a single low-amperage fuse.
 - Fuse blocks mount to a solid surface and may hold a single fuse or multiple fuses.

Although this process uses information from ABYC E-11 to recommend wire size and circuit protection, it may not cover all of the unique characteristics that may exist on a boat. If you have specific questions about your installation please consult an ABYC certified installer.

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LEGEND
● Ingress protection
● Ignition protection

MDL®
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Crimpable In-Line Fuse Holder

5060

Waterproof In-Line Fuse Holders

5061

5062

Heavy Duty In-Line Fuse Holder

5063

ST Glass Fuse Blocks

5015
5018

**ATO®
or ATC®
Fuse**

ATO® or ATC® In-Line Fuse Holders

5064

5065

ST Blade Fuse Blocks

5025
5026
5028
5029
5035

SafetyHub Fuse Blocks

7725

7748

7727

**MAXI™
Fuse**

MAXI™ Fuse Block

5006

**AMI®
or MIDI®
Fuse**

AMI® or MIDI® Safety Fuse Block

7720

SafetyHub Fuse Blocks

7725

7748

7727

**MRBF
TERMINAL
Fuse**

Terminal MRBF Fuse Blocks

5191

2151

**MEGA®
or AMG®
Fuse**

MEGA® or AMG® Safety Fuse Block

7721

**CLASS T
Fuse**

CLASS T Fuse Block

5502

**ANL®
Fuse**

ANL® Fuse Blocks

5005

5503

Additional replacement fuses available from Blue Sea Systems:

GMA® Fuse

1A to 10A

AGA® Fuse

20A

ATM® Fuse

5A to 30A

