

WIRE SIZE INFORMATION

This table allows for a 3% voltage drop,
and will help you to select the minimum safe wire size to use
for proper and efficient use and operation of
GROCO[®] motorized equipment.

HOW TO USE CHARTS

1 From the individual product instructions packed with the product, determine the fuse or circuit breaker size required. Locate the fuse or circuit breaker size in the left-hand column of the chart below.

2 Determine the distance away from the power source to where the powered equipment will be installed. Double this number and find the total distance across the top line of the chart below.

3 Read down and then across to the required fuse or circuit breaker size required. At the intersection of the horizontal and vertical selections you have made will be the minimum wire size to use. It is permissible to use heavier gauge wire.

FOR 12V-DC SYSTEMS

Fuse or Breaker	Feet of wire from power source to motor AND BACK TO POWER SOURCE																		
	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
5	18	16	14	12	12	10	10	10	8	8	8	6	6	6	6	6	6	6	6
10	14	12	10	10	10	8	6	6	6	6	4	4	4	4	2	2	2	2	2
15	12	10	10	8	8	6	6	6	4	4	2	2	2	2	2	1	1	1	1
20	10	10	8	6	6	6	4	4	2	2	2	2	1	1	1	0	0	0	2/0
25	10	8	6	6	6	4	4	2	2	2	1	1	0	0	0	2/0	2/0	2/0	3/0
30	10	8	6	6	4	4	2	2	1	1	0	0	0	2/0	2/0	3/0	3/0	3/0	3/0
40	8	6	6	4	4	2	2	1	0	0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0
50	6	6	4	4	2	2	1	0	2/0	2/0	3/0	3/0	4/0	4/0	4/0				

FOR 24V-DC SYSTEMS

Fuse or Breaker	Feet of wire from power source to motor AND BACK TO POWER SOURCE																		
	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
5	18	18	18	16	16	14	12	12	12	10	10	10	10	10	8	8	8	8	8
10	18	16	14	12	12	10	10	10	8	8	8	6	6	6	6	6	6	6	6
15	16	14	12	12	10	10	8	8	6	6	6	6	6	4	4	4	4	4	2
20	14	12	10	10	10	8	6	6	6	6	4	4	4	4	2	2	2	2	2
25	12	12	10	10	8	6	6	6	4	4	4	4	2	2	2	2	2	2	1
30	12	10	10	8	8	6	6	4	4	4	2	2	2	2	2	1	1	1	1

FOR 32V-DC SYSTEMS

Fuse or Breaker	Feet of wire from power source to motor AND BACK TO POWER SOURCE																		
	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
5	18	18	18	18	16	16	14	14	12	12	12	12	10	10	10	10	10	10	8
10	18	16	16	14	14	12	12	10	10	10	8	8	8	8	8	6	6	6	6
15	16	14	14	12	12	10	10	8	8	8	6	6	6	6	6	6	6	4	4
20	16	14	12	12	10	10	8	8	6	6	6	6	4	4	4	4	4	4	2