

VFD CABLE SELECTION GUIDE

Motor properties AWG size selection chart

| Drive HP | 230 V 3Ø AWG | 460 V 3Ø AWG | 575 V 3Ø AWG | Drive HP | 230 V 3Ø AWG | 460 V 3Ø AWG | 575 V 3Ø AWG |
|----------|--------------|--------------|--------------|-----------|--------------|--------------|--------------|
| 1/4 - 3 | 18 | 18 | 18 | 60 | 2/0 | 3 | 4 |
| 5 | 14 | 18 | 18 | 75 | 4/0 | 2 | 3 |
| 7 1/2 | 12 | 18 | 18 | 100 | 300 MCM | 1/0 | 2 |
| 10 | 10 | 16 | 18 | 125 | 500 MCM | 2/0 | 1/0 |
| 15 | 8 | 12 | 14 | 150 | * | 3/0 | 2/0 |
| 20 | 6 | 10 | 12 | 200 | * | 300 MCM | 4/0 |
| 25 | 4 | 8 | 10 | 250 | * | 400 MCM | 300 MCM |
| 30 | 3 | 8 | 10 | 300 | * | * | 400 MCM |
| 40 | 2 | 6 | 8 | 350 | * | * | 500 MCM |
| 50 | 1/0 | 4 | 6 | 400 - 500 | * | * | * |

Note: The above table references the suggested wire AWG to use based on Horse Power (HP) and the Full Load Current (FLC) times 125% per NEC Art. 430-22 (A). Amperes (FLC) were determined from NEC Art. 430-150.