

VFD CABLE SELECTION GUIDE

Small motor properties AWG size selection chart for Tray Cables types VFD Lean TR, VFD Dual TR, Servo VFD Combo DS and VFD symmetrical Lean TR

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	14	16	18	60	2/0	3	4
5	14	14	16	75	4/0	2	3
7 1/2	12	14	14	100	300 MCM	1/0	2
10	10	14	14	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 (G) (1) and (2) for small motors. For special motor types NEC Art. 430-22 (A) - (G) may give additional restrictions for conductor sizes. Amperes (FLC) were determined from NEC Art. 430-250.

Drive HP	230 V 1pr AWG	460 V 1pr AWG	575 V 1pr AWG
1/4 - 3	14	16*	16*
5	14	14	14
7 1/2	10	14	14
10	8	14	14
15	6	10	12
20	-	8	10
25	-	8	8
30	-	6	8
40	-	-	6
50	-	-	-

Drive HP	230 V 2pr AWG	460 V 2pr AWG	575 V 2pr AWG
1/4 - 3	14	14	16*
5	12	14	14
7 1/2	10	14	14
10	8	12	14
15	4	10	10
20	-	8	10
25	-	6	8
30	-	6	6
40	-	-	6
50	-	-	-

* If the circuit is protected according NEC 43022 (G) (1) (1) or (G) (1) (2). Otherwise AWG 14.