



Belden® VFD Cable Reference Guide

General Guidelines for Typical Installations

VFD Cable Size Selection Guide (Based on Motor HP)*

P/N	AWG	230V 3 ^Ø	460V 3 ^Ø	575V 3 ^Ø
29500	16AWG	1/4 to 3 HP	10 HP	10 HP
29501	14AWG	5 HP	10 HP	15 HP
29502	12 AWG	7 1/2 HP	15 HP	20 HP
29503	10 AWG	10 HP	20 HP	30 HP
29504	8 AWG	15 HP	30 HP	40 HP
29505	6 AWG	20 HP	40 HP	50 HP
29506	4 AWG	25 HP	50 HP	60 HP
29507	2 AWG	40 HP	75 HP	100 HP

29528	1 AWG	40 HP	75 HP	100 HP
29529	1/O AWG	50 HP	100 HP	125 HP
29530	2/O AWG	60 HP	125 HP	150 HP
29531	3/O AWG	60 HP	150 HP	150 HP
29532	4/O AWG	75 HP	150 HP	200 HP

VFD W/Signal Pair				
29510	16 AWG	1/4 to 3 HP	7 1/2 HP	10 HP
29511	14 AWG	5 HP	10 HP	10 HP
29512	12 AWG	5 HP	10 HP	15 HP
29513	10 AWG	7 1/2 HP	15 HP	20 HP

(*Values based on typical Full-Load Current (FLC) ratings of three-phase AC motors as published in NEC Table 430.250 (2005) multiplied by 125% per NEC article 430-22 (A) (2005). The ampacity ratings of the cables are based on NEC Table 310.16 (2005), for 90 deg. C rated conductors. The VFD w/ Signal ampacity values were de-rated to 80% per NEC Table 310.15 (B)(2)(a) (2005) due to the increased number of current-carrying conductors included in these cables(s).

Consult drive/motor manufacturer for exact FLC ratings as well as any temperature deratings that may apply. NEC ampacity interpretations are subject to user's local authority having jurisdiction.