

TB065 (Rev1) - Control Cable Maximum Lengths

Fiber Optic Cable Maximum Lengths (All lengths are measured from motion controller card to component):

Component	Maximum Length
PLC	40 FT (12.12 M)
DC Drives	100 FT (30.48 M)
SD3 (AC) Drive	40 FT (12.12 M)
SD1 (multiple units)	30 FT (9.14 M)

Note: Cable lengths for PLC's and drives must be equal to compensate for propagation delays.

Motor Cable Maximum Lengths:

Drive	Current	Length
2T	25A	30 FT
3T	15A	45 FT*
4T	12A	64 FT*
5T	9A	90 FT*
6T	6A	100 FT*
DC Brushed Power Cables with 14 AWG Wire		

*Increased power cable length adds series Inductance which delays response and adds instability.

AC motors with 14 AWG Wire:

- 50 FT @ Full Current.
- 75 FT @ Half Current

Encoder Cable Length: 100 FT

Document History

Rev1 Created on **1998-05-01**