

Table 1
Maximum Cable Length for 50,000 hrs of motor Insulation Life

Insulation Grade	Frame Size	Product Type	Carrier Freq. **	Motor Base Voltage		
				230V	460 V	575 V
Standard Insulation Class B or F	48-145T	DP, Std & Series E TEFC, XRI, Blue Chip, Std XP	3 kHz	600 ft	125 ft	40 ft
			6 kHz	600 ft	80 ft	25 ft
	182T-326T	DP, Std & Series E TEFC, Std XP	9 kHz	600 ft	65 ft	20 ft
			12 kHz	600 ft	55 ft	15 ft
Premium Insulation Class F or H	182T-365T	Sourced DP & Blue Chip	3 kHz	1000 ft	225 ft	60 ft
	182T-449T	Blue Chip & XRI Blue Chip XP 1 D	6 kHz	1000 ft	135 ft	40 ft
			9 kHz	1000 ft	100 ft	30 ft
	364T-510	DP & Series E TEFC	12 kHz	1000 ft	85 ft	25 ft
Premium Plus D133 (CR200 wire) Class F or H	56-84T	MicroMax	3 kHz	1500 ft	475 ft	140 ft
	56-84T	Washguard, Powerwash XT	6 kHz	1500 ft	275 ft	80 ft
	56-215T	Brake motors	9 kHz	1500 ft	225 ft	65 ft
	143T-449T	Series E XP2	12 kHz	1500 ft	175 ft	40 ft
MAXGUARD Insulation Class F or H	56-256T	Black Max	3 kHz	2000 ft	2000 ft	650 ft
	143T-5013	Speedmaster, Blue Max, IEEE 841 XRI SD, XRI SD XP1 & 2 & All 5009-5013 TEFC's	6 kHz	2000 ft	1500 ft	425 ft
			9 kHz	2000 ft	1300 ft	300 ft
			12 kHz	2000 ft	1200 ft	250 ft

** Phase-to-phase carrier frequency. Phase-to-bus carrier frequency. = ½ phase-to-phase value:
3 kHz phase-to-phase = 1.5 kHz phase-to-bus.