

CONSTRUCTION CHARACTERISTICS TABLE - DriveRx[®] VFD

Size AWG or kcmil	Bonding Conductor ⁶	Cable Core	Aluminum Sheath	PVC Jacket	Approx. Net Cable Weight ¹	Minimum Bending Radius		Ampacity (A) 30°C Ambient ^{2, 4}		
		Nominal Diameter	Nominal Diameter	Nominal Diameter		Under Tension	Trained ⁵	60°C	75°C	90°C
	# x AWG	mm	mm	mm	kg/km	mm	mm			
12 (7)³	3 x #18	9.9	15.0	17.7	350	210	135	20	25	30
10 (7)³	3 x #16	11.2	15.8	18.4	425	225	145	30	35	40
8 (7)	3 x #14	12.3	19.1	21.8	590	270	175	40	50	55
6 (7)	3 x #12	15.9	21.1	23.7	805	300	190	55	65	75
4(7)	3 x #12	18.6	24.5	27.0	1102	385	248	70	85	95
2 (7)	3 x #10	21.3	29.5	32.1	1665	415	265	95	115	130
1(18)	3 x #10	25.6	34.0	36.6	2103	525	337	110	130	145
1/0(18)	3 x #10	27.9	35.6	38.3	2433	548	352	125	150	170
2/0 (18)	3 x #10	29.4	39.6	43.0	2990	555	360	145	175	195
4/0 (18)	3 x #8	34.9	45.0	48.4	4320	630	405	195	230	260
250 (36)	3 x #8	38.5	49.6	52.9	4975	695	450	215	255	290
350 (36)	3 x #8	43.7	52.1	55.5	6460	730	470	260	310	350
500 (36)	3 x #6	50.3	60.2	64.4	9030	845	545	320	380	430

Notes:

¹ Where stated, "nominal" and "approximate" values are provided for information purposes only and are subject to standard manufacturing tolerances.

² Based on CE Code Table 2, for not more than 3 current carrying conductors in a cable or raceway.

³ The overcurrent protection shall not exceed 20 amperes for 12 AWG, and 30 amperes for 10 AWG after any corrections factors for ambient temperature and number of conductors have been applied (CE Code Rule 14-104(2)), or as provided for by other Rules of the CE Code.

⁴ The maximum conductor temperature (used to determine the maximum conductor ampacity) shall be based on the lowest temperature rating of the electrical equipment, any wire connector, or cable (CE Code Rule 4-006).

⁵ The minimum bending radius is 9x the nominal sheath diameter for a trained cable (fixed installation -- CE Code Rule 12-712(3)).

⁶ Size of each bonding conductor. Total area of 3 conductors meets or exceeds bonding conductor size in CE Code Table 16.