

TABLE 6: BOREHOLE DROP CABLE SIZING

	MOTOR SIZE		FULL LOAD CURRENT	MINIMUM CABLE SIZE	CABLE DIMENSION					
					1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
	(kW)	(HP)	(A)	(mm ²)	MAXIMUM LENGTHS FOR SUBMERSIBLE BOREHOLE CABLE (m)					
ONE PHASE	0.37	0.5	3.5	1.5	180					
	0.55	0.75	5.0	1.5	121	202				
	0.75	1.0	6.7	1.5	91	152	243			
	1.10	1.5	7.2	1.5	63	105	168	252		
	1.50	2.0	10.6	1.5	49	81	130	195	326	
	2.25	3.0	15.8	2.5		56	89	134	223	
THREE PHASE	1.10	1.5	3.1	1.5	382	636				
	1.50	2.0	3.9	1.5	303	505				
	2.25	3.0	5.5	1.5	210	350				
	3.75	5.0	8.7	1.5	131	218	349			
	5.63	7.5	13.0	2.5		155	248	372		
	7.50	10.0	17.2	2.5		115	184	276	460	
	11.30	15.0	24.0	4.0			126	190	316	505
	15.00	20.0	32.0	4.0			95	142	237	380
	18.80	25.0	40.0	6.0				114	190	304
22.00	30.0	46.0	10.0					164	262	

NOTE:- (i) Lengths given refer to distance between power supply point and borehole pump.
(ii) All lengths based on Grundfos recommendations