



TECHNICAL DATASHEET

Submersible Electrical Cables

Super-coated copper cables specific for Franklin and Joval submersible motors.



Complete range of electric cables for submersible applications. Includes super-coated cables for 4", 6", and 8" motors, ensuring insulation and durability in submerged environments. Available in various sections for different powers and lengths.

APPLICATIONS

- Clean water pumping in 4" boreholes
- Water abstraction from 6" boreholes, reservoirs and water courses.
- Large diameter boreholes

TECHNICAL DATA

TECHNICAL SPECIFICATIONS

Type	4" Super Coated Cable
Material	Cobre Recozido
Insulation	Especial Submersível (90°C)
Compatibility	Franklin Electric / Joval
Standards	PSC - 3% queda de tensão a 50°C amb.

FRANKLIN 4" MOTOR INOX 304

Code	Model	Designation
2054196750	310 113 401	4-core cable
2054206750	310 113 402	4-core cable
2054216750	310 113 405	4-core cable

FRANKLIN 4" MOTOR INOX 316

Code	Model	Designation
2054196751	310 113 501	4-core cable
2054206751	310 113 502	4-core cable

FRANKLIN 6" ENCAPSULATED MOTOR

Code	Model	Designation
2032025004	310 125 004	4-core cable
2032045004	310 145 004	4-core cable

FRANKLIN 8" ENCAPSULATED MOTOR

Code	Model	Designation
2032062901	305 243 901	3-core cable
2032061901	305 310 901	3-core cable
2032085901	305 309 901	3-core cable

JOVAL REWINDABLE PT-100 PROBE

Code	Designation
2036000601	Sonda PT-100

MAXIMUM LENGTH - MOTOR 4" (220V 50HZ 3Ø - DOL)

220v 50Hz 3Ø 3-Lead

Power	Maximum length in meters				
	1,5 mm ²	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²
0.25 kW / 0.33 HP	120	200	325	485	-
0.37 kW / 0.50 HP	80	140	225	335	-
0.55 kW / 0.75 HP	60	100	160	245	405
0.75 kW / 1.00 HP	40	75	125	190	310
1.10 kW / 1.50 HP	30	50	80	125	200
1.50 kW / 2.00 HP	25	45	70	105	175
2.20 kW / 3.00 HP	20	30	50	75	130
3.70 kW / 5.00 HP	-	20	30	50	80

MAXIMUM LENGTH - MOTOR 4" (400V 50HZ 3Ø - DOL)

400v 50Hz 3Ø 3-Lead

Power	Maximum length in meters				
	1,5 mm ²	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²
0.37 kW / 0.50 HP	520	-	-	-	-
0.55 kW / 0.75 HP	355	-	-	-	-
0.75 kW / 1.00 HP	280	470	-	-	-
1.10 kW / 1.50 HP	200	335	-	-	-
1.50 kW / 2.00 HP	145	240	385	-	-
2.20 kW / 3.00 HP	100	170	270	405	-
3.00 kW / 4.00 HP	70	125	200	295	490
3.70 kW / 5.00 HP	60	100	165	245	410
4.00 kW / 5.50 HP	55	90	150	225	370
5.50 kW / 7.50 HP	40	70	115	175	290
7.50 kW / 10.00 HP	30	50	85	130	215
9.30 kW / 12.50 HP	25	40	65	100	170

MAXIMUM LENGTH - MOTOR 6"-8"-10" (380V - DOL)

380v 50Hz 3Ø 3-Lead

Power	Maximum length in meters																
	2,5 mm ²	4 mm ²	6 mm ²	8,4 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²	150 mm ²	185 mm ²	240 mm ²	300 mm ²	400 mm ²
4 kW / 5.5 HP	95	155	230	325	385	605	915	-	-	-	-	-	-	-	-	-	-
5.5 kW / 7.5 HP	70	110	170	235	280	440	670	915	-	-	-	-	-	-	-	-	-
7.5 kW / 10 HP	50	80	126	175	205	325	500	685	935	-	-	-	-	-	-	-	-
9.3 kW / 12.5 HP	40	65	100	145	170	270	410	565	770	1030	-	-	-	-	-	-	-
11 kW / 15 HP	-	55	85	120	140	225	345	470	645	865	1110	-	-	-	-	-	-
15 kW / 20 HP	-	40	65	90	105	170	265	360	495	665	855	1030	-	-	-	-	-
13 kW / 17.5 HP	-	50	75	105	125	195	300	410	560	750	965	-	-	-	-	-	-
18.5 kW / 25 HP	-	-	50	75	85	140	210	290	400	530	680	810	950	-	-	-	-
22 kW / 30 HP	-	-	-	64	75	120	180	250	340	455	585	700	815	945	-	-	-
26 kW / 35 HP	-	-	-	-	60	100	150	210	290	385	500	600	705	815	945	-	-
30 kW / 40 HP	-	-	-	-	-	85	135	185	250	335	430	515	600	695	820	935	-
37 kW / 50 HP	-	-	-	-	-	-	105	150	205	270	350	420	485	565	665	760	875
45 kW / 60 HP	-	-	-	-	-	-	90	125	175	235	310	375	445	520	630	730	860
52 kW / 70 HP	-	-	-	-	-	-	80	110	155	210	270	325	385	450	540	625	735
55 kW / 75 HP	-	-	-	-	-	-	-	105	145	195	255	305	360	420	505	580	685
60 kW / 80 HP	-	-	-	-	-	-	-	95	135	185	240	290	345	400	485	560	660
67 kW / 90 HP	-	-	-	-	-	-	-	-	120	160	210	255	300	350	415	480	565
75 kW / 100 HP	-	-	-	-	-	-	-	-	-	145	185	225	270	315	375	435	510
83 kW / 111 HP	-	-	-	-	-	-	-	-	-	-	120	145	170	200	235	270	310
85 kW / 114 HP	-	-	-	-	-	-	-	-	-	-	-	125	160	195	230	265	315
93 kW / 125 HP	-	-	-	-	-	-	-	-	-	-	-	115	150	185	215	255	300
110 kW / 150 HP	-	-	-	-	-	-	-	-	-	-	-	-	120	145	170	200	235
130 kW / 175 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	130	155	180	215
150 kW / 200 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145	170	205
185 kW / 250 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	160
220 kW / 300 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130
250 kW / 335 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MAXIMUM LENGTH - MOTOR 6"-8"-10" (380V - STAR-DELTA)

380v 50Hz 3Ø 6-Lead

Power	Maximum length in meters																	
	2,5 mm ²	4 mm ²	6 mm ²	8,4 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²	150 mm ²	185 mm ²	240 mm ²	300 mm ²	400 mm ²	
4 kW / 5.5 HP	145	230	350	485	575	900	-	-	-	-	-	-	-	-	-	-	-	
5,5 kW / 7.5 HP	106	170	250	350	420	660	1010	-	-	-	-	-	-	-	-	-	-	
7.5 kW / 10 HP	75	125	185	260	310	490	750	1025	-	-	-	-	-	-	-	-	-	
9,3 kW / 12.5 HP	60	100	155	215	255	405	620	845	1160	-	-	-	-	-	-	-	-	
11 kW / 15 HP	50	85	130	180	210	340	520	715	980	-	-	-	-	-	-	-	-	
13 kW / 17.5 HP	45	75	110	155	185	295	450	615	845	1125	-	-	-	-	-	-	-	
15 kW / 20 HP	40	65	95	135	160	260	395	540	740	995	-	-	-	-	-	-	-	
18,5 kW / 25 HP	30	50	80	110	130	210	320	435	600	800	1025	-	-	-	-	-	-	
22 kW / 30 HP	-	-	45	65	95	110	180	275	375	510	685	875	1050	-	-	-	-	
26 kW / 35 HP	-	-	35	55	80	95	150	230	315	435	580	750	900	1055	-	-	-	
30 kW / 40 HP	-	-	-	50	70	80	130	200	275	375	500	645	775	905	1045	-	-	
37 kW / 50 HP	-	-	-	-	55	65	105	160	220	305	410	525	625	730	845	1000	-	
45 kW / 60 HP	-	-	-	-	-	55	90	135	190	260	355	460	560	665	780	945	1095	
52 kW / 70 HP	-	-	-	-	-	50	80	120	165	230	310	405	490	580	680	815	940	
55 kW / 75 HP	-	-	-	-	-	-	75	115	155	220	295	380	460	545	635	760	875	
60 kW / 80 HP	-	-	-	-	-	-	70	105	145	205	275	360	435	510	605	725	840	
67 kW / 90 HP	-	-	-	-	-	-	60	95	130	180	240	315	380	450	525	625	720	
75 kW / 100 HP	-	-	-	-	-	-	-	85	115	160	215	280	340	405	470	565	655	
83 kW / 111 HP	-	-	-	-	-	-	-	75	105	145	200	260	315	375	435	525	610	
85 kW / 114 HP	-	-	-	-	-	-	-	70	100	135	185	240	290	345	400	475	550	
93 kW / 125 HP	-	-	-	-	-	-	-	-	65	95	130	175	230	275	325	380	455	
110 kW / 150 HP	-	-	-	-	-	-	-	-	-	105	140	180	220	255	300	355	405	
130 kW / 175 HP	-	-	-	-	-	-	-	-	-	95	125	160	195	230	270	325	375	
150 kW / 200 HP	-	-	-	-	-	-	-	-	-	-	105	140	170	200	230	275	320	
185 kW / 250 HP	-	-	-	-	-	-	-	-	-	-	-	110	130	155	180	210	240	
220 kW / 300 HP	-	-	-	-	-	-	-	-	-	-	-	-	115	140	160	195	225	
250 kW / 335 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	105	125	140	170	
300 kW / 400 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	125	150	175
350 kW / 470 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125	145	170
400 kW / 540 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	130