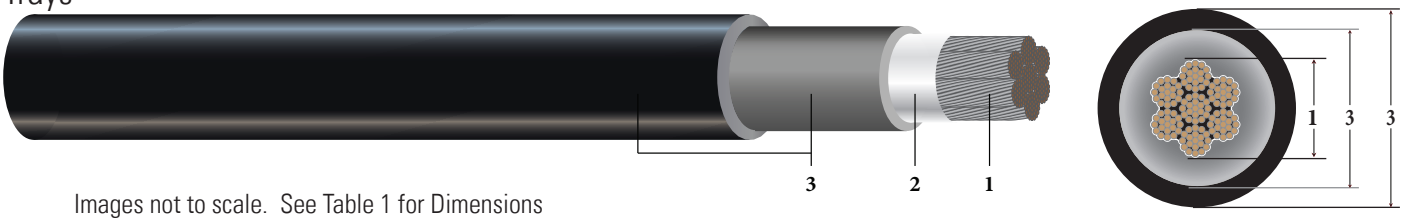
2kV HDFPC-DLO, RHH/RHW-2 & RW90

UL Listed as 2kV Heavy Duty Flexible Power Cable (HDFPC) DLO, Rated 90°C Dry or Wet. 2kV Type RHH/RHW-2 Flexible Power Cable Rated 90°C Dry or Wet. CSA Listed as 1kV Type RW90. Composite Thermoset Wall EPDM/CPE Insulation/Jacket. Sizes 1/0 and Larger Rated TC-ER, FT4, for Use in Cable Trays



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductors**: Flexible Stranded Rope-Lay Class I Tinned Copper per ASTM B33 and B172
2. **Binder Tape:** Mylar Tape
3. **Insulation:** 2 layer Thermoset Ethylene Propylene Diene Monomer **/** Thermoset Chlorinated Polyethylene (EPDM/CPE)

APPLICATIONS AND FEATURES

HDFPC-DLO is a 2kV flexible power cable with a variety of possible applications such as but not limited to: Drilling rigs, railroad and transit car wiring, mining and other industrial equipment, and as flexible motor leads and wind turbine applications. The cable is suited for use in wet and dry areas, conduits, ducts, troughs, trays, and where superior electrical properties are desired. The maximum continuous conductor temperature for normal operation is 90°C wet or dry. HDFPC-DLO is oil, heat, flame, abrasion, and sunlight resistant. Approved for use per the NEC® as Type RHH/RHW-2 and per the CE Code as 1kV Type RW90.

SPECIFICATIONS:

- ASTM B3 - Soft or Annealed Copper
- ASTM B33 - Tinned Soft or Annealed Copper
- B172 - Rope-Lay-Stranded Copper Conductors Having Bunch Stranded Members
- UL Subject 2806 - Type HDFPC-DLO
- UL 44 - Type RHH/RHW-2
- CSA C22.2 No. 38 - Type RW90
- MSHA - P-07-KA100013
- CT Rated 1/0 and Larger
- IEEE 1202/FT4 - Flame Test (70,000 Btu/hr Vertical Tray Test)
- UL 1685 - Vertical-Tray Fire-Propagation and Smoke-Release Test

SAMPLE PRINT LEGEND:

SOUTHWIRE® xxx SIZE AWG (xxx mm2) EPR/CPE 2KV HDFPC-DLO TYPE RHH OR RHW-2 (-40°C) PRII SUN RES FOR CT USE (UL) E137925 (CSA LOGO) LL90458 RW90 EP 1KV (-40°C) EP/CPE TC FT4 --- P-07-KA100013-MSHA SEQUENTIAL FOOTAGE MARKS.

2kV HDFPC-DLO, RHH/RHW-2 & RW90 – Table I, Physical Data

Stock Number	Conductor			Min. Ave. Composite Thermoset Insulation Thickness		Nominal Overall Diameter	Approximate Net Weight+	Maximum Pulling Tension	Bend Radius
	Size	Strands	Diameter	EPDM Layer	CPE Layer				
	AWG/kcmil	No./ (Inch or AWG)	Inches (1)	Inches	Inches	Inches (3)	Lbs./1000 Ft.	Pounds	Inches
571253	12	19/.0185	0.090	0.045	0.015	0.210	36	52	0.84
560057	10	26/#24	0.114	0.045	0.015	0.265	59	83	1.06
559271	8	41/#24	0.148	0.055	0.030	0.329	90	132	1.32
560058	6	63/#24	0.182	0.055	0.030	0.372	128	210	1.49
559269	4	105/#24	0.235	0.060	0.030	0.421	187	334	1.68
560059	2	161/#24	0.302	0.060	0.030	0.504	291	531	2.02
	1	210/#24	0.335	0.080	0.045	0.560	260	670	2.24
560061	1/0	266/#24	0.381	0.080	0.045	0.690	488	845	2.76
560062	2/0	342/#24	0.405	0.080	0.045	0.720	558	1065	2.88
562064	3/0	418/#24	0.480	0.080	0.045	0.726	654	1342	2.90
559270	4/0	532/#24	0.535	0.080	0.045	0.809	829	1693	3.24
558160	262.6	649/#24	0..585	0.090	0.065	0.966	1,076	2101	3.86
571461	313.3	775/#24	0.652	0.090	0.065	1.045	1,271	2506	4.18
559268	373.7	925/#24	0.705	0.090	0.065	1.089	1,471	2990	4.36
560063	444.4	1100/#24	0.783	0.090	0.065	1.165	1,624	3555	5.83
558162	535.3	1325/#24	0.805	0.090	0.065	1.200	1,901	4282	6.00
571587	646.4	1600/#24	0.900	0.090	0.065	1.285	2,446	5171	6.43
558164	777.7	1924/#24	0.990	0.090	0.065	1.364	2,833	6222	6.82
	929.2	2300/#24	1.115	0.090	0.065	1.471	3162	7434	7.36
578860	1111.0	2750/#24	1.170	0.115	0.095	1.760	4,178	8888	8.80

Note: All dimensions are nominal and subject to normal manufacturing tolerances.

2kV HDFPC-DLO, RHH/RHW-2 & RW90 – Table II, Electrical Data

Stock Number	Conductor		DC Resistance at 20°C	X_L - Triangular Conduit		Ampacity			
						In Conduit+		In Air++	
	Size	Strands		PVC	Steel	75°C	90°C	75°C	90°C
	AWG/kcmil	No./ (Inch or AWG)	Ω/1000 Ft.	Ω/1000 Ft.	Ω/1000 Ft.	Amps			
571253	12	19/.0185	1.690	0.041	0.053	25	30	35	40
560057	10	26/#24	1.040	0.038	0.049	35	40	50	55
559271	8	41/#24	0.654	0.039	0.052	50	55	70	80
560058	6	63/#24	0.419	0.037	0.048	65	75	95	105
559269	4	105/#24	0.263	0.035	0.046	85	95	125	140
560059	2	161/#24	0.166	0.033	0.043	115	130	170	190
TBA	1	210/#24	0.132	0.032	0.042	130	145	195	220
560061	1/0	266/#24	0.105	0.034	0.044	150	170	230	260
560062	2/0	342/#24	0.0834	0.033	0.045	175	195	265	300
562064	3/0	418/#24	0.0662	0.032	0.041	200	225	310	350
559270	4/0	532/#24	0.0525	0.031	0.040	230	260	360	405
558160	262.6	649/#24	0.0426	0.029	0.045	267	304	421	473
571461	313.3	775/#24	0.0357	0.034	0.041	298	332	453	570
559268	373.7	925/#24	0.0300	0.033	0.043	323	365	522	592
560063	444.4	1100/#24	0.0252	0.031	0.041	358	405	581	655
558162	535.3	1325/#24	0.0209	0.031	0.041	394	446	660	747
571587	646.4	1600/#24	0.0174	0.031	0.040	439	496	712	804
558164	777.7	1924/#24	0.0146	0.029	0.039	483	543	802	904
TBA	929.2	2300/#24	0.0121	0.029	0.038	529	594	886	998
578860	1111.0	2750/#24	0.0120	0.032	0.042	570	648	1012	1145

+ Ampacities based on Table 310.15(B)(16) of the National Electrical Code® for not more than three current-carrying conductors in raceway, cable or earth. Based on Ambient Temperature of 30°C (86°F)

++ Ampacities based on Table 310.15(B)(17) of the National Electrical Code® Allowable Ampacities of Single-Insulated Conductors Rated Up to and Including 2000 Volts in Free Air. Based on Ambient Temperature of 30°C (86°F)