

# UL & CSA Listed - 2kV HDFPC-DLO, RHH/RHW-2 & RW90

Composite wall EPDM/CPE insulation. UL Listed as 2kV Heavy Duty Flexible Power Cable (HDFPC) DLO, Rated 90°C Dry or Wet, 2kV Type RHH/RHW-2 Rated 90°C Dry or Wet, 1/0 & larger rated FT4 and For CT Use (Cable Tray). CSA Listed as 2kV Type RW90, 1/0 & larger rated FT4 and TC-ER. For use in Cable Trays.

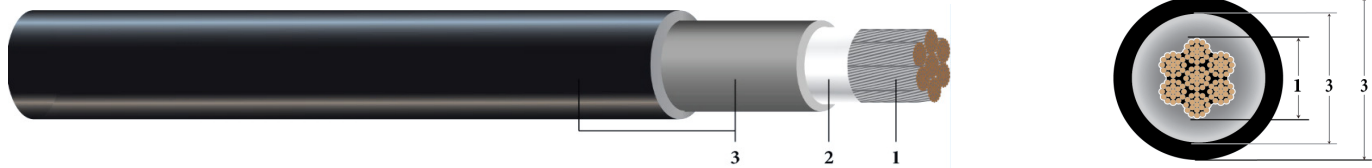


Image not to scale. See Table 1 for Dimensions

## CONSTRUCTION:

- 1. Conductors:** ASTM B33 & B172 Flexible Stranded Rope-lay Class I Tinned Copper  
Optional ASTM B3 & B172 Flexible Stranded Rope-lay Class I, Bare Copper available upon request
- 2. Binder Tape:** Mylar Tape
- 3. Insulation:** 2 Layer Ethylene Propylene Diene Monomer / Chlorinated Polyethylene (EPR/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. Approved for use per the NEC® as Type RHH/RHW-2 and per the CEC Part 1 as Type RW90.

## SPECIFICATIONS:

- ASTM B3 - Soft or Annealed Copper
- ASTM B33 - Tinned or Soft Annealed Copper
- ASTM B172 - Rope-Lay-Stranded Copper Conductors Having Bunch Stranded Members
- UL Subject 2806 - Type HDFPC DLO 2kV
- UL 44 - Type RHH/RHW-2 2kV
- CSA C22.2 No. 38 - CEC Part 1 as Type RW90 2kV
- MSHA - P-07-KA10013
- CT Rated 1/0 and Larger
- Meets Requirements of G.E. Spec# 104W7006 Rev. F
- Meets Requirements of AAR RP-585



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

## SAMPLE PRINT LEGEND: (8 - 1 AWG)

SOUTHWIRE® ROYAL® 4 AWG (21.15mm<sup>2</sup>) E#### (UL) TYPE HDFPC EPR/CPE 2KV DLO 90C DRY 90C WET OR TYPE RHH/RHW-2 90C DRY 90C WET 2KV -40C PRI PRII SR VW-1 --- CSA LL##### RW90 90C DRY 90C WET 2KV -40C PRI PRII FT1 SR --- P-07-KA100013-MSHA [SEQUENTIAL FOOTAGE MARKS]

## SAMPLE PRINT LEGEND: (1/0 AWG - 1111 KCMIL)

SOUTHWIRE® ROYAL® 373.7 KCMIL (189.4mm<sup>2</sup>) E### (UL) TYPE HDFPC EPR/CPE 2KV DLO 90C DRY 90C WET OR TYPE RHH/RHW-2 90C DRY 90C WET 2KV -40C PRI PRII SR FOR CT USE FT4 --- CSA LL##### RW90 90C DRY 90C WET TC-ER 2KV -40C PRI PRII FT1 FT4 SR --- P-07-KA100013-MSHA [SEQUENTIAL FOOTAGE MARKS]

2kV HDFPC-DLO, RHH/RHW-2 & RW90 - TABLE 1, Physical Data

Stock Code	Conductor			Nom. Composite Insulation Thickness				Nominal Overall Diameter		Approximate Net Weight*		Max. Pulling Tension
	Size	Stranding	Nominal OD	EPDM Inner Layer		CPE Outer Layer						
	AWG/kcmil	No. (inch/AWG)	Inches	Inches	mm	Inches	mm	Inches	mm	Lbs/Mft	Kg/Km	Pounds
559271xx	8	41/24	0.145	0.060	1.52	0.035	0.09	0.329	8.38	92	137	138
560058xx	6	65/24	0.180	0.060	1.52	0.035	0.09	0.382	9.40	133	198	214
559269xx	4	105/24	0.235	0.060	1.52	0.035	0.09	0.440	11.18	197	293	336
TBD	3	133/24	0.265	0.060	1.52	0.035	0.09	0.455	11.56	243	362	426
560059xx	2	161/24	0.300	0.060	1.52	0.035	0.09	0.495	12.57	280	417	515
595113xx	1	210/24	0.330	0.070	1.78	0.050	1.27	0.635	16.13	400	595	672
560061xx	1/0	266/24	0.385	0.070	1.78	0.050	1.27	0.645	16.38	451	671	851
560062xx	2/0	342/24	0.400	0.070	1.78	0.050	1.27	0.678	17.53	558	830	1094
562064xx	3/0	418/24	0.480	0.070	1.78	0.050	1.27	0.760	19.30	675	1004	1338
559270xx	4/0	532/24	0.525	0.070	1.78	0.050	1.27	0.815	20.70	816	1214	1702
558160xx	262.6	646/24	0.565	0.080	2.03	0.070	1.78	0.915	23.24	977	1454	2067
571461xx	313.3	779/24	0.650	0.080	2.03	0.070	1.78	0.990	24.89	1133	1686	2493
559268xx	373.7	931/24	0.701	0.080	2.03	0.070	1.78	1.040	26.42	1346	2003	2979
560063xx	444.4	1121/24	0.782	0.080	2.03	0.070	1.78	1.116	28.07	1655	2463	3587
558162xx	535.3	1349/24	0.843	0.095	2.41	0.070	1.78	1.205	30.73	1919	2855	4317
571587xx	646.4	1628/24	0.890	0.095	2.41	0.070	1.78	1.272	32.77	2267	3373	5210
558164xx	777.7	1924/24	0.966	0.095	2.41	0.070	1.78	1.380	35.43	2690	4003	6157
598516xx	929.2	2318/24	1.113	0.095	2.41	0.070	1.78	1.470	37.34	3123	4647	7418
578860xx	1111.1	2745/24	1.168	0.115	2.92	0.100	2.54	1.640	41.66	4154	6181	8784

Note: All dimensions are nominal and subject to normal manufacturing variances. "xx" is a placeholder for package

\*Actual shipping weight may vary



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

2kV HDFPC-DLO, RHH/RHW-2 & RW90 - TABLE 2, Electrical Data

Stock Code	Conductor		Bend Radius Inches	DC Resistance at 20°C Ω/Mft	X - Triangular Conduit		Capacitance pF/Ft	X Steel or PVC Conduit Ω/Mft	Ampacity			
	Size AWG/kcmil	Stranding No. (inch/AWG)			PVC Ω/Mft	Steel Ω/Mft			In Conduit*		In Air**	
									75°C	90°C	75°C	90°C
	Amps											
559271xx	8	41/24	1.32	0.6540	0.038	0.050	69.13	0.034	50	55	70	80
560058xx	6	65/24	1.49	0.4190	0.037	0.048	82.45	0.033	65	75	95	105
559269xx	4	105/24	1.68	0.2630	0.035	0.045	99.50	0.027	85	95	125	140
TBD	3	133/24	1.82	0.2010	0.037	0.048	95.42	0.028	100	112	147	165
560059xx	2	161/24	2.02	0.1660	0.033	0.042	120.70	0.022	115	130	170	190
595113xx	1	210/24	2.24	0.1320	0.034	0.044	116.90	0.023	130	145	195	220
560061xx	1/0	266/24	2.76	0.1050	0.033	0.042	129.24	0.021	150	170	230	260
560062xx	2/0	342/24	2.88	0.0834	0.032	0.041	142.45	0.019	175	195	265	300
562064xx	3/0	418/24	2.90	0.0662	0.031	0.040	158.10	0.017	200	225	310	350
559270xx	4/0	532/24	3.24	0.0525	0.030	0.039	175.07	0.015	230	260	360	405
558160xx	262.6	646/24	3.86	0.0426	0.029	0.037	166.56	0.013	267	304	421	473
571461xx	313.3	779/24	4.18	0.0357	0.028	0.037	180.63	0.012	298	332	453	570
559268xx	373.7	931/24	4.36	0.0300	0.029	0.038	193.90	0.013	323	365	522	592
560063xx	444.4	1121/24	5.83	0.0252	0.029	0.037	217.24	0.012	358	405	581	655
558162xx	535.3	1349/24	6.00	0.0209	0.029	0.038	193.00	0.014	394	446	660	747
571587xx	646.4	1628/24	6.43	0.0174	0.029	0.037	210.00	0.013	439	496	712	804
558164xx	777.7	1924/24	6.82	0.0146	0.028	0.036	232.53	0.011	483	543	802	904
598516xx	929.2	2318/24	7.36	0.0121	0.027	0.036	252.84	0.010	529	594	886	998
578860xx	1111.1	2745/24	8.80	0.0102	0.028	0.037	265.42	0.012	570	648	1012	1145

\* Ampacities based on Table 310.15(B)(16) of the National Electric 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 Electric 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).

