DLO TCU 2000V EPDM Insulation Thermoset CPE Jacket. RHH/RHW-2/ RW90 MSHA Approved.

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 for Dry or Wet. CSA Listed as 2kV Type RW90. Composite Thermoset Wall EPDM Insulation Thermoset CPE Jacket. Silicone-Free. MSHA Approved.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible stranded rope-lay class I tinned copper per ASTM B33 and B172 (as applicable)
2. **Binder Tape:** Mylar tape
3. **Insulation:** Black Thermoset Ethylene Propylene Diene Monomer (EPDM)
4. **Jacket:** Thermoset Chlorinated Polyethylene (CPE). Other colors available (see table below)

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. 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 2kV Type RW90. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. Sizes 1/0 AWG and larger are rated for CT Use.

WARNING: Mechanical connectors should not be used on products constructed with rope-lay, high-strand-count conductors. Only compression connectors should be used with these conductor designs.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors (As Applicable)
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- UL 2806 Heavy Duty Flexible Power Cable (HDFPC-DLO)
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA C22.2 No.230 Tray Cables - Rated TC-ER (1/0 AWG and Larger)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

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- MSHA Approved
- Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661

SAMPLE PRINT LEGEND:

Sizes 12 - 10 AWG:

{SQFTG} SOUTHWIRE® ROYAL® XX AWG (XXmm2) E30117 (UL) TYPE RHH/RHW-2 90°C DRY 90°C WET 2KV (-40°C) PRI PRII SR --- EPR/CPE DLO --- P-07-KA100013-MSHA---RoHS

Sizes 8 - 1 AWG:

SOUTHWIRE® ROYAL® XX AWG (XX{mm2}) E30117 {UL} TYPE HDFPC EPR/CPE 2KV DLO 90°C DRY 90°C WET OR TYPE RHH/RHW-2 90°C DRY 90°C WET 2KV -40°C PRI PRII SR VW-1 -- {CSA} 156205 RW90 90°C DRY 90°C WET 2KV -40°C PRI PRII FT1 SR {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

Sizes 1/0 AWG and larger:

{SQFTG} SOUTHWIRE® ROYAL® XX AWG XX STRAND CLASS XX (XX{mm2}) E30117 {UL} TYPE HDFPC EPR/CPE 2KV DLO 90°C DRY 90°C WET OR TYPE RHH/RHW-2 90°C DRY 90°C WET 2KV -40°C PRI PRII SR FOR CT USE FT4 -- {CSA} 156205 RW90 90°C DRY 90°C WET TC-ER 2KV -40°CPRI PRII FT1 FT4 SR

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Min. Avg. Insul. Thickness	Dia. Over Insulation	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil	No. of Strands	inch	mil	inch	mil	inch	lb/1000ft	lb/1000ft	
571253	12	19	0.09	45	0.18	25	0.21	20	36	BK
560057	10	19	0.125	45	0.215	25	0.266	32	59	BK
167014	8	41	0.145	55	0.255	30	0.33	52	92	RD
167015	6	65	0.186	55	0.296	30	0.37	81	127	BK
167017	4	105	0.235	55	0.345	30	0.44	134	196	BK
167019	2	161	0.291	55	0.401	30	0.5	210	283	BK
167020	1	210	0.3	65	0.43	45	0.635	267	401	BK
167021	1/0	266	0.379	65	0.509	45	0.645	327	451	BK
167022	2/0	342	0.4	65	0.53	45	0.69	424	567	BK
167023	3/0	418	0.48	65	0.61	45	0.76	519	676	BK
167024	4/0	532	0.53	65	0.66	45	0.815	639	815	BK
167026	262.2	646	0.565	75	0.715	65	0.915	740	974	BK
641176	262.6	646	0.59	75	0.74	65	0.966	751	1016	RD
167027	313.3	779	0.65	75	0.8	65	0.98	896	1140	BK
167029	373.7	931	0.71	75	0.86	65	1.04	1077	1344	BK
167030	444.4	1121	0.782	75	0.932	65	1.105	1378	1654	BK
167031	535.3	1330	0.843	90	1.023	65	1.212	1549	1892	BK
677552	535.3	1349	0.843	90	1.023	65	1.205	1560	1911	GN
167032	646.4	1628	0.89	90	1.07	65	1.29	1899	2292	BK
167033	777.7	1924	0.966	90	1.146	65	1.405	2247	2719	BK
664206	929.2	2318	1.115	90	1.295	65	1.47	2774	3200	BK
167035	1111	2745	1.168	115	1.398	95	1.64	3561	4162	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 60°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil	inch	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
571253	12	0.8	1.662	2.063	0.054	20	25	30
560057	10	1.1	1.04	1.291	0.05	30	35	40
167014	8	1.3	0.654	0.812	0.052	40	50	55
167015	6	1.5	0.419	0.52	0.051	55	65	75
167017	4	1.8	0.263	0.326	0.048	70	85	95
167019	2	2	0.166	0.206	0.045	95	115	130
167020	1	2.5	0.132	0.164	0.046	110	130	145
167021	1/0	2.6	0.105	0.13	0.044	125	150	170
167022	2/0	2.8	0.084	0.104	0.043	145	175	195
167023	3/0	3	0.066	0.082	0.042	165	200	225
167024	4/0	3.3	0.053	0.066	0.041	195	230	260
167026	262.2	3.7	0.045	0.056	0.041	215	267	302
641176	262.6	3.9	0.045	0.056	0.041	215	267	304
167027	313.3	3.9	0.039	0.049	0.041	240	298	332
167029	373.7	5.2	0.034	0.043	0.04	260	323	365
167030	444.4	5.5	0.025	0.032	0.04	280	358	405
167031	535.3	6.1	0.021	0.027	0.039	320	394	446
677552	535.3	6	0.021	0.027	0.039	320	394	446
167032	646.4	6.4	0.018	0.024	0.039	350	439	496
167033	777.7	7	0.015	0.021	0.038	400	483	543
664206	929.2	7.4	0.012	0.018	0.037	435	529	594
167035	1111	8.2	0.01	0.016	0.036	455	570	648

***** Ampacities in raceway are based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding). Also, see NEC sections 310.15 and 110.14(C) for additional requirements. Ampacities for non-standard sizes were extrapolated

***** Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.

***** #12 and #10 AWG are not approved for CSA RW90

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Other Insulation Colors

Cond. Size	Black	Red	Brown	Orange	Yellow	Green	Gray
AWG/kcmil							
12	571253	665446	665465	665466	665467	665468	
10	560057	665469	665470	665471	665472	665473	
8	TBA	167014	665474	665475	665476	665477	
6	167015	665478	665479	665480	665481	665482	
4	167017	167017	665483	665484	665485	516511	
2	167019	167019	138238	138239	138240	138241	
1	167020	138282	138283	138287	138288	138289	
1/0	167021	138242	138243	138244	138245	138246	
2/0	167022	167022	138247	138248	138249	138251	
3/0	167023	138252	138253	138254	138255	138256	
4/0	167024	167024	138257	138258	138259	138260	
262.6	167026	641176	665452	665453	665454	665455	
313.3	167027	665456	665457	665458	665459	665460	
373.7	167029	655203	678900	576729	678901	678902	
444.4	167030	678975	665461	665462	665463	665464	
535.3	167031	167031	138211	138212	138213	677552	
646.4	167032	138229	138215	138216	138217	138218	
777.7	167033	167033	640980	640981	640982	138219	640983
929.9	664206						
1111	167035	138220	138221	138222	138223	138224	

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