





## 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

# 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 and Larger Rated For CT Use.



#### Cable image is for reference only and does not depict actual cable construction

### 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 2 layer Thermoset Ethylene Propylene Diene Monomer / Thermoset Chlorinated Polyethylene (EPDM/CPE). Other colors available (see table below)

### Print Legend

{SQFTG} SOUTHWIRE{R} ROYAL{R} 4/0 AWG 532 STRAND CLASS I (108.9mm2) E30117 MASTER-DESIGN {UL} TYPE HDFPC EPR/CPE 2KV DLO 90{D}C DRY 90{D}C WET OR TYPE RHH/RHW-2 90{D}C DRY 90{D}C WET 2KV -40{D}C PRI PRII SR FOR CT USE FT4 -- {CSA} 156205 RW90 90{D}C DRY 90{D}C WET TC-ER 2KV -40{D}C PRI PRII FT1 FT4 SR

Stock Code	Conductor Size	Conductor Diam	Conductor Strands	Insulation Thickness	Jacket Thickness	Approx. Overall OD	Approx. Weight	Min E Radi		lax Pull ension	Ampacity 75/90°C			
	AWG	inches	-	mils	mils	inches	lbs. /1,0	00' inche	es Ib	S.	amps			
167024	4/0	0.530	532	80	60	0.815	815	3.3	16	692	230/260	)		
Dimensions are nominal and subject to normal manufacturing tolerances. Sample print legend, actual may vary.							Cust. Spec Approval:							
Table 310.16 NEC 2020 Ampacities of insulated conductors not more than 3 current carrying in raceway, cable or earth (direct buried)						Drn/Ch	k By: S	SW	Req By:	J.N.		11/7/2	023	
						Ticket #		1290	Drw #:	SW127				

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