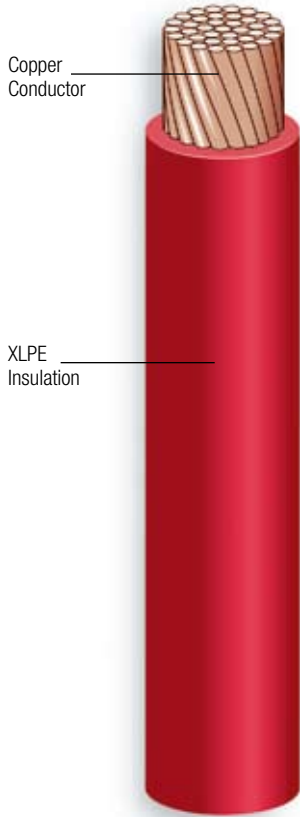


## ENGINEERING SPECIFICATIONS:



### Standards:

Underwriters Laboratories Standards UL-4703, UL-854  
 IEEE 1202/FT4 Flame Test  
 ICEA T-29-520 (210,000 Btu/hr) Flame Test  
 NEMA WC70/ICEA S-95-658  
 NFPA 70: National Electrical Code (NEC)

### CONSTRUCTION:

#### Conductors:

Stranded conductors, uncoated copper per ASTM-B787 and ASTM-B8

#### Insulation:

Cross-linked polyethylene (XLPE) insulation per UL-854

#### Applications:

Type Photovoltaic copper conductors are suitable for outdoor applications without conduit and for use in conduits and raceways installed underground in conduit, in wet locations, and where condensation and moisture accumulations within the conduit do not exceed 90°C. Applications requiring direct burial is permitted for Type Photovoltaic per UL-854. Applications requiring type Photovoltaic conductor, temperatures shall not exceed 90°C in wet or dry locations. Available in 600V and 1000V/2000V. All cables comply with UL's VW-1 (Vertical Wire) Flame Test. Insulation compounds are rated for flame and sunlight-resistance in all sizes and colors. Photovoltaic conductors of 1/0 through 4/0 are rated for CT use.

#### Features:

RoHS compliant. Flexibility at Low Temperature Test.

## Type Photovoltaic Copper Conductor 600V AND 1000V/2000V

Size AWG	Number of Strands		Insulation Thickness XLPE (inches)		Outside Diameter				Allowable Ampacities (Amps)		Approximate Net Weight (lbs./1000 ft.)		Standard Packaging (ft.)			
	600V	1000V 2000V	600V	1000V 2000V	600V		1000V / 2000V		600V	1000V 2000V	600V	1000V 2000V	600 Volt		1000 Volt / 2000 Volt	
					(in.)	(mm)	(in.)	(mm)								
18	16	16	0.060	0.075	0.165	4.19	0.197	5.00	8	8	15	18	1000' carton (2x500), 2500' reels	500' 1000' 2500' reels		
16	26	26	0.060	0.075	0.178	4.51	0.209	5.31	8	8	18	22	1000' carton (2x500), 2500' reels	500' 1000' 2500' reels		
14	19	19	0.060	0.075	0.193	4.89	0.221	5.61	15	25	24	28	500' 1000' 2500' reels	500' 1000' 2500' reels		
12	19	19	0.060	0.075	0.212	5.37	0.238	6.05	20	30	33	38	500' 1000' 2500' reels	500' 1000' 2500' reels		
10	19	19	0.060	0.075	0.236	5.99	0.260	6.60	30	40	47	52	500' 2500' reels	500' 2500' reels		
8	7*	7*	0.075	0.085	0.296	7.52	0.313	7.95	55	55	74	78	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
6	7*	7*	0.075	0.085	0.334	8.48	0.349	8.86	75	75	108	113	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
4	7*	7*	0.075	0.085	0.382	9.70	0.396	10.06	95	95	161	166	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
3	7*	7*	0.075	0.085	0.410	10.41	0.424	10.77	110	110	197	203	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
2	7*	7*	0.075	0.085	0.442	11.23	0.456	11.58	130	130	243	249	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
1	19	19	0.095	0.105	0.518	13.16	0.531	13.49	150	150	313	320	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
1/0	19	19	0.095	0.105	0.550	13.97	0.570	14.48	170	170	380	389	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
2/0	19	19	0.095	0.105	0.594	15.09	0.614	15.60	195	195	476	484	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
3/0	19	19	0.095	0.105	0.644	16.36	0.664	16.87	225	225	590	599	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		
4/0	19	19	0.095	0.105	0.700	17.78	0.720	18.29	260	260	732	742	500' 1000' 2500' 5000' reels	500' 1000' 2500' 5000' reels		

\* 8 awg - 2 awg: 19/w is available upon request.

#### PRINT LEGEND: 600V

18 AWG THROUGH 1 AWG: E326525\*(SIZE)\*TYPE\*PHOTOVOLTAIC\* 90C\*WET\*OR\*DRY\*SUN\*RES\*-40C\*600V\*XLPE\*(UL)\*DATE\*TIME\*OPERATOR\*QC  
 1/0 AWG THROUGH 4/0 AWG: E326525\*(SIZE)\*TYPE\*PHOTOVOLTAIC\* 90C\*WET\*OR\*DRY\*SUN\*RES\*-40C\*600V\*XLPE\*(UL)\*FOR\*CT\*USE\*DATE\*TIME\*OPERATOR\*QC

#### PRINT LEGEND: 1000V/2000V

18 AWG THROUGH 1 AWG: E326525\*(SIZE)\*TYPE\*PHOTOVOLTAIC\* 90C\*WET\*OR\*DRY\*SUN\*RES\*-40C\*2000V\*XLPE\*(UL)\*DATE\*TIME\*OPERATOR\*QC  
 1/0 AWG THROUGH 4/0 AWG: E326525\*(SIZE)\*TYPE\*PHOTOVOLTAIC\* 90C\*WET\*OR\*DRY\*SUN\*RES\*-40C\*2000V\*XLPE\*(UL)\*FOR\*CT\*USE\*DATE\*TIME\*OPERATOR\*QC

