



SPECIFICATIONS AND STANDARDS

- UL Standard 83 - Thermoplastic Insulated Wires and Cables
- UL Standard 1063 - Machine Tool Wires and Cables
- UL Standard 66 - Fixture Wire
- UL Standard 758 - AWM

CONSTRUCTION

- Soft Annealed bare copper (per ASTM B-3) solid or stranded (per UL 83)
- Insulation of high quality VW-1 or CT rated PVC (polyvinyl chloride) compound
- Dry rated 90°C Wet rated 75°C for THWN
- Wet rated 90°C for THWN-2
- Outside jacket of clear, heat stabilized, abrasion resistant nylon
- Sizes 8 ga. and larger with ez-WIRE® enhanced nylon jacket; no pulling lube required
- Rating at 600 volts



APPLICATIONS

- In accordance with National Electrical Code (NEC) 600 volt use in new construction, remodel or repair
- Used in applications where the maximum operating temperature does not exceed 75°C THWN, 90°C THWN-2 in wet locations and 90°C in dry locations
- Suitable for use in conduit and raceways installed underground, wet locations and/or where condensation and moisture may occur
- Suitable for power and lighting in commercial, industrial and residential installations and appliance wire applications
- Suitable for use in cable trays 1/0 and larger
- To be used in compliance with NEC article 310 - “Conductors for General Wiring” and article 210 - “Branch Circuits”

Size (AWG or kcmil)	Number of Strands	Conductor Size (mm ²)	Insulation Thickness (inches)		Outside Diameter		Allowable Ampacity			Approx. Net Weight (lbs. / 1000 ft.)
			PVC	Nylon	(inches)	(mm)	60°C	75°C	90°C	
14	Solid	2.08	.015	.004	.101	2.57	15	15	15	15
12	Solid	3.31	.015	.004	.120	3.05	20	20	20	23
10	Solid	5.26	.020	.004	.149	3.78	30	30	30	37
14	19	2.08	.015	.004	.109	2.77	15	15	15	17
12	19	3.31	.015	.004	.127	3.23	20	20	20	24
10	19	5.26	.020	.004	.160	4.07	30	30	30	38
8	19	8.37	.030	.005	.212	5.39	40	50	55	63
6	19	13.3	.030	.005	.248	6.30	55	65	75	95
4	19	21.2	.040	.006	.317	8.06	70	85	95	153
3	19	26.7	.040	.006	.344	8.74	85	100	110	189
2	19	33.6	.040	.006	.375	9.53	95	115	130	234
1	19	42.4	.050	.007	.435	11.05	110	130	150	299
1/0	19	53.5	.050	.007	.474	12.04	125	150	170	372
2/0	19	67.4	.050	.007	.518	13.16	145	175	195	462
3/0	19	85.0	.050	.007	.568	14.43	165	200	225	572
4/0	19	107	.050	.007	.624	15.85	195	230	260	712
250	37	127	.060	.008	.678	17.23	215	255	290	851
300	37	152	.060	.008	.730	18.55	240	285	320	1010
350	37	177	.060	.008	.777	19.74	260	310	350	1170
400	37	203	.060	.008	.821	20.86	280	335	380	1330
500	37	253	.060	.008	.902	22.91	320	380	430	1650
600	61	304	.070	.009	1.051	26.70	355	420	475	1985
750	61	380	.070	.009	1.158	29.41	400	475	535	2503