

NEW



UltraFlex-150

UL3289 150 °C – 600V | UL3575 150 °C – 7500V

Exclusively offered through Essex Brownell, UltraFlex-150 is a Cross-Linked Polyethylene insulated wire manufactured with an enhanced rubber compound. Because of the flexibility, UltraFlex - 150 can be used in a wide variety of applications including electric motors, appliances, electrical coils, transformers, heat pumps, motor leads, and generators.

Properties		UltraFlex-150	
Approvals/Listings:			
UL		STYLE UL 3289/3271	STYLE UL 3575
CSA		AWM CL 1251, CL 1503	AWM CL 7500 Volt
Physical:			
Temperature Rating		125/150 °C	150 °C
Voltage Rating (Vrms)		600V	7500V
Scrape Abrasion Resistance		250 Cycles	250 Cycles
Cold Bend -4h @ -50 °C		Passes	Passes
Bend Radius		3 X Overall Diameter	3 X Overall Diameter
Tensile Strength:			
Unaged		2500 PSI	2500 PSI
Retention after 7 days @ 180 °C		Passes (90%)	Passes (90%)
Elongation:			
Unaged		400%	400%
Retention after 7 days @ 180 °C		90%	90%
Flame Test:			
VW-1 and FT1 Vertical Burn Test (UL 758 and CSA)		Passes	Passes
Chemical Resistance:			
Gasoline	Swell at 23 °C/24hr	< 2%	< 2%
Engine Oil	Swell at 50 °C/20hr	< 2%	< 2%
IRM 902 Oil	Swell at 50 °C/70hr	< 1%	< 1%
Electrical:			
Dielectric Strength Test		AC 2KV / 5 Min No breakdown (UL 758 and UL 1581)	AC 15KV / 5 Min No breakdown (UL 758 and UL 1581)
Dielectric breakdown strength (Vrms)		20,000	20,000
Oxygen Index:		38	38

*Properties are tested to UL 758 and UL 1581.

AWG	Conductor			Insulation Thickness				Ampacity (A) (reference)	Diameter of Finished Wire (Approx.)		Dielectric Strength (V, AC)	Finished Weight (lbs/mft)
	Construction (No./AWG)	Nom. Outer Diameter		Nom.		Min. Average			mm	inch		
		mm	inch	mm	inch	mm	inch					

STYLE UL 3289/3271

20	26/#34	0.94	0.037	0.81	0.032	0.76	0.030	17.6	2.56	0.101	2000	7.4
18	41/#34	1.18	0.047	0.81	0.032	0.76	0.030	23.2	2.80	0.110	2000	9.7
16	26/#30	1.49	0.059	0.81	0.032	0.76	0.030	30.7	3.12	0.123	2000	13.6
14	41/#30	1.88	0.074	0.81	0.032	0.76	0.030	41.0	3.50	0.138	2000	19.3
12	65/#30	2.36	0.093	0.81	0.032	0.76	0.030	54.8	3.98	0.157	2000	27.9
10	66/#28	3.00	0.118	0.81	0.032	0.76	0.030	74.6	4.62	0.182	2000	41.9
8	7x24/#30	4.31	0.170	1.22	0.048	1.14	0.045	121	6.75	0.266	2000	75.2
6	7x38/#30	5.42	0.213	1.58	0.062	1.37	0.054	181	8.58	0.338	2000	118.6
4	7x60/#30	6.81	0.268	1.58	0.062	1.37	0.054	242.5	9.97	0.393	2000	174.3
2	19x35/#30	8.67	0.341	1.58	0.062	1.37	0.054	327	11.83	0.466	2000	263.5
1	19x44/#30	9.72	0.382	2.08	0.082	1.83	0.072	384.8	13.88	0.544	2000	354.8
1/0	19x56/#30	10.97	0.431	2.08	0.082	1.83	0.072	449.7	15.13	0.596	2000	425.2
2/0	19x70/#30	12.26	0.483	2.08	0.082	1.83	0.072	519.7	16.42	0.646	2000	524.0
4/0	37x57/#30	15.49	0.610	2.08	0.082	1.83	0.072	701.6	19.65	0.774	2000	786.5

STYLE UL 3575

10	105/#30	3.29	0.129	0.122	0.048	1.14	0.045	89.9	4.91	0.193	15,000	43.7
8	7x24/#30	4.60	0.181	1.22	0.048	1.14	0.045	129.0	7.04	0.277	15,000	77.5
6	7x38/#30	5.71	0.225	1.58	0.062	1.37	0.054	179.7	8.87	0.349	15,000	122.9
4	7x60/#30	7.10	0.279	1.58	0.062	1.37	0.054	243.4	10.26	0.405	15,000	180.6
2	19x35/#30	8.96	0.353	1.58	0.062	1.37	0.054	332.0	12.12	0.477	15,000	268.2
1	19x44/#30	10.01	0.394	2.08	0.082	1.83	0.072	393.5	14.17	0.558	15,000	348.7
1/0	19x56/#30	11.26	0.443	2.08	0.082	1.83	0.072	463.5	15.42	0.607	15,000	431.1
2/0	19x70/#30	12.55	0.494	2.08	0.082	1.83	0.072	539.9	16.71	0.658	15,000	530.6
4/0	37x57/#30	15.78	0.621	2.08	0.082	1.83	0.072	742.6	19.94	0.785	15,000	799.0

*Allowable current: Ambient temperature 40 °C, Max. allowable temperature 150 °C (single-wire in air)



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