

# Polyrad® XT Flexible Wire and Cable

600 V, Single Conductor, Dual Rated – 125°C/110°C

**Product Construction:**

**Conductor:**

- 20 AWG thru 1111 kcmil soft annealed tinned copper per ASTM B33, B8 and B172

**Insulation:**

- Polyrad® XT flame-retardant, low-smoke irradiated Cross-linked Polyolefin (XLPO)

**Print:**

- GENERAL CABLE® (WC) POLYRAD® XT 125°C/110°C XXAWG 600 V DAY/MONTH/YEAR

**Options:**

- Available in multi-conductor constructions
- Class K stranding
- Available in colors other than dark gray

**Applications:**

- Ideally suited for use where environmental factors require cable characteristics to perform with a high degree of flame retardancy and excellent moisture-stable electrical values. Where reliability is the major concern and where maximum performance will be demanded
- Engineered and manufactured for both original equipment and retrofit use in power and control circuits and in motor leads
- Extensively found on all types of heavy- and light-rail cars, rapid transit cars, diesel-electric locomotives, freight cars and off-road vehicles

**Features:**

- Dual temperature rating at 125°C/110°C for long life, higher ampacities and protection from thermal overloads
- Excellent flexibility & free stripping
- Outstanding thermal stability at elevated temperatures
- Maximum flame retardance and low toxicity
- Excellent low-temperature performance; suitable for installation in sub-zero conditions
- Extra-tough, mechanically rugged irradiated thermoset insulation
- Resistant to most oils and chemicals
- Meets cold bend test at -55°C
- Meets cold impact test at -40°C

**Compliances:**

**Industry:**

- AAR S-501/AAR RP-585
- ICEA S-95-658

**Flame Test:**

- IEEE 1202/FT4 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- VW-1

**Other:**

- BSS 7239
- SMP 800-C
- ASTM E662
- NFPA-130 (2017) On-Vehicle
- ASTM 1354
- RoHS and REACH Compliant

**Packaging:**

- Standard reel put-up

\* For 14 AWG and larger

**Color Code Chart**

(Including but not limited to)

ORDERING SUFFIX	COLOR	ORDERING SUFFIX	COLOR
00	Dark Gray	05	Green
02	Red	08	Light Gray
04	Yellow	09	White



**POLYRAD® XT 600 V**

CATALOG NUMBER STOCK*	CONDUCTOR (AWG/kcmil) SIZE AND STRANDING		NOMINAL CONDUCTOR DIAMETER		NOMINAL INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET CABLE WEIGHT		AMPACITY (FREE AIR 40°C AMBIENT)	
			INCHES	mm	MILS	mm	INCHES	mm	LBS/1000'	kg/km	LBS/1000'	kg/km	110°C	125°C
315130	20	19/32	0.038	0.97	30	0.76	0.098	2.49	4	6	8	12	15	17
280710*	18	19/30	0.048	1.21	30	0.76	0.108	2.74	6	9	11	16	17	19
280720*	16	19/29	0.054	1.37	30	0.76	0.114	2.90	8	12	13	19	23	25
280700*	14	19/27	0.067	1.70	30	0.76	0.127	3.23	12	18	17	25	39	42
296420*	12	19/25	0.086	2.18	30	0.76	0.146	3.71	19	28	26	39	51	55
303910*	10	27/24	0.117	2.97	30	0.76	0.177	4.50	34	50	42	63	67	72
296490	8	37/24	0.135	3.43	45	1.14	0.225	5.72	47	70	61	91	85	92
330230*	6	61/24	0.174	4.42	45	1.14	0.264	6.71	76	114	95	142	120	130
355320	5	91/24	0.242	6.15	45	1.14	0.332	8.43	116	173	139	211	151	163
318420	4	105/24	0.262	6.68	45	1.14	0.352	8.94	137	204	162	241	160	173
355330	3	125/24	0.285	7.24	45	1.14	0.375	9.53	167	284	191	284	199	215
355340	2	150/24	0.307	7.80	45	1.14	0.397	10.08	190	283	218	325	214	231
355350	1	225/24	0.380	9.65	55	1.40	0.490	12.45	287	427	346	515	247	267
355360	1/0	275/24	0.410	10.41	55	1.40	0.520	13.21	351	522	414	616	286	309
355370	2/0	325/24	0.470	11.94	55	1.40	0.580	14.73	407	606	471	701	329	355
355380	3/0	450/24	0.549	13.94	55	1.40	0.659	16.74	594	884	652	970	380	410
355390	4/0	550/24	0.593	15.06	55	1.40	0.703	17.86	696	1036	771	1147	446	482
355400	262	650/24	0.630	16.00	65	1.65	0.760	19.30	820	1220	913	1359	524	566
355410	313	775/24	0.685	17.40	65	1.65	0.815	20.70	987	1469	1089	1621	590	637
355420	373	925/24	0.750	19.05	65	1.65	0.880	22.35	1176	1750	1289	1918	657	710
355430	444	1100/24	0.820	20.83	65	1.65	0.950	24.13	1413	2207	1537	2287	734	793
355440	535	1325/24	0.895	22.73	80	2.03	1.055	26.80	1697	2525	1862	2771	828	894
355450	646	1600/24	0.980	24.89	80	2.03	1.140	28.96	2020	3006	2202	3277	931	1005
355460	777	1925/24	1.075	27.31	80	2.03	1.235	31.37	2435	3624	2564	3816	1047	1130
355470	929	2300/24	1.230	31.24	80	2.03	1.390	35.31	3117	4638	3401	5061	1168	1260
355480	1111	2750/24	1.328	33.73	95	2.41	1.518	38.56	3400	5060	3915	5826	1254	1354

Dimensions and weights are nominal; subject to industry tolerances.

Note: At the option of the purchaser, the manufacturer's standard type of stranding will be acceptable, providing that the conductor diameter does not exceed the values shown. The total number of wires shall be as specified, plus or minus one percent, except 150/24 which may vary by minus two percent, providing that the conductor diameter does not exceed the values shown.

\*Standard stock items