

RAPID TRANSIT & LOCOMOTIVE WIRE AND CABLE

Polyrad XT Flexible Wire and Cable

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

FEATURES

- Dual temperature rating at 125°C/110°C for long life, higher ampacities and protection from thermal overloads
- Excellent flexibility & free stripping
- Higher ampacities and simplified installations possible due to small outside diameters, flexible stranding and insulation
- 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

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, wayside equipment and off-road vehicles

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® BRAND REX BRAND (WC)
POLYRAD XT 125C/110C XXAWG 600V YEAR/MONTH

Options

- Available in multi-conductor constructions
- Class K stranding
- Available in colors other than dark gray
- Cables meeting NYCT TX Specification available upon request

COMPLIANCES

Industry

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

Flame Test

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

Other

- BSS 7239
- SMP 800-C
- ASTM E662
- NFPA 130 STD 2010

Packaging

- Standard reel put-up

POLYRAD XT 600 V

PART NUMBER	CONDUCTOR (AWG/kcmil) SIZE AND STRANDING		NOMINAL CONDUCTOR DIAMETER			NOMINAL INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET CABLE WEIGHT		AMPACITY (FREE AIR 40° AMBIENT)	
			INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km	LBS./1000'	kg/km	110°C	125°C	
05-5000	20	19/32	0.038	0.97	30	0.76	0.098	2.49	4	6	8	12	15	17	
05-5001	18	19/30	0.048	1.21	30	0.76	0.108	2.74	6	9	11	16	17	19	
05-5002	16	19/29	0.054	1.37	30	0.76	0.114	2.90	8	12	13	19	23	25	
05-5003	14	19/27	0.067	1.70	30	0.76	0.127	3.23	12	18	17	25	39	42	
05-5004	12	19/25	0.086	2.18	30	0.76	0.146	3.71	19	28	26	39	51	55	
05-5005	10	27/24	0.117	2.97	30	0.76	0.177	4.50	34	50	42	63	67	79	
05-5006	8	37/24	0.135	3.43	45	1.14	0.225	5.72	47	70	61	91	85	92	
05-5007	6	61/24	0.174	4.42	45	1.14	0.264	6.71	76	114	95	142	120	130	
05-5008	5	91/24	0.242	6.15	45	1.14	0.332	8.43	116	173	139	211	151	163	
05-5009	4	105/24	0.262	6.68	45	1.14	0.352	8.94	137	204	162	241	160	173	
05-5010	3	125/24	0.285	7.24	45	1.14	0.375	9.53	167	284	191	284	199	215	
05-5011	2	150/24	0.307	7.80	45	1.14	0.397	10.08	190	283	218	325	214	231	
05-5012	1	225/24	0.380	9.65	55	1.40	0.490	12.45	287	427	346	515	247	267	
05-5013	1/0	275/24	0.410	10.41	55	1.40	0.520	13.21	351	522	414	616	286	309	
05-5014	2/0	325/24	0.470	11.94	55	1.40	0.580	14.73	407	606	471	701	329	355	
05-5015	3/0	450/24	0.549	13.94	55	1.40	0.659	16.74	594	884	652	970	380	410	
05-5016	4/0	550/24	0.593	15.06	55	1.40	0.703	17.86	696	1036	771	1147	446	482	
05-5017	262	650/24	0.630	16.00	65	1.65	0.760	19.30	820	1220	913	1359	524	566	
05-5018	313	775/24	0.685	17.40	65	1.65	0.815	20.70	987	1469	1089	1621	590	637	
05-5019	373	925/24	0.750	19.05	65	1.65	0.880	22.35	1176	1750	1289	1918	657	710	
05-5020	444	1100/24	0.820	20.83	65	1.65	0.950	24.13	1413	2207	1537	2287	734	793	
05-5021	535	1325/24	0.895	22.73	80	2.03	1.055	26.80	1697	2525	1862	2771	828	894	
05-5022	646	1600/24	0.980	24.89	80	2.03	1.140	28.96	2020	3006	2202	3277	931	1005	
05-5023	777	1925/24	1.075	27.31	80	2.03	1.235	31.37	2435	3624	2564	3816	1047	1130	
05-5024	929	2300/24	1.230	31.24	80	2.03	1.390	35.31	3117	4638	3401	5061	1168	1260	
05-5025	1111	2750/24	1.328	33.73	95	2.41	1.518	38.56	3400	5060	3915	5826	1254	1354	

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.

»Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.

Polyrad® is a registered trademark of General Cable.