

RAPID TRANSIT & LOCOMOTIVE WIRE AND CABLE

Polyrad XT Flexible Wire and Cable

2000 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 2000V YEAR/MONTH

Options

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

Packaging

- Standard reel put-up

POLYRAD XT 2000 V – STANDARD INSULATION THICKNESS

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	INCHES	mm	INCHES	mm	LBS./1000'	kg/km	LBS./1000'	kg/km	110°C	125°C		
05-5026	20	19/32	0.038	0.97	45	1.14	0.128	3.25	4	6	10	15	15	17
05-5027	18	19/30	0.048	1.21	45	1.14	0.138	3.51	6	9	14	21	17	19
05-5028	16	19/29	0.054	1.37	45	1.14	0.144	3.66	8	12	16	24	23	25
05-5029	14	19/27	0.067	1.70	45	1.14	0.157	3.99	12	18	22	33	39	42
05-5030	12	19/25	0.086	2.18	45	1.14	0.176	4.47	19	28	31	46	51	55
05-5031	10	27/24	0.117	2.97	45	1.14	0.207	5.26	34	50	47	70	67	79
05-5032	8	37/24	0.135	3.43	55	1.40	0.245	6.22	47	70	66	98	85	92
05-5033	6	61/24	0.174	4.42	55	1.40	0.284	6.96	76	114	100	149	120	130
05-5034	5	91/24	0.242	6.15	55	1.40	0.352	8.94	116	173	149	222	151	163
05-5035	4	105/24	0.262	6.68	55	1.40	0.372	9.45	137	204	169	252	160	173
05-5036	3	125/24	0.285	7.24	55	1.40	0.395	10.03	167	284	197	293	99	215
05-5037	2	150/24	0.307	7.80	55	1.40	0.417	10.59	190	283	226	336	214	231
05-5038	1	225/24	0.380	9.65	65	1.65	0.510	12.95	287	427	353	525	247	267
05-5039	1/0	275/24	0.410	10.41	65	1.65	0.540	13.72	351	522	420	625	286	309
05-5040	2/0	325/24	0.470	11.94	65	1.65	0.600	15.24	407	606	481	716	329	355
05-5041	3/0	450/24	0.549	13.94	65	1.65	0.679	17.25	594	884	663	987	380	410
05-5042	4/0	550/24	0.593	15.06	65	1.65	0.723	18.36	696	1036	792	1179	446	482
05-5043	262	650/24	0.630	16.00	75	1.91	0.780	19.81	820	1220	931	1386	524	566
05-5044	313	775/24	0.685	17.40	75	1.91	0.835	21.21	987	1469	1108	1649	590	637
05-5045	373	925/24	0.750	19.05	75	1.91	0.900	22.86	1176	1750	1310	1950	657	710
05-5046	444	1100/24	0.820	20.83	75	1.91	0.970	24.64	1413	2207	1561	2323	734	793
05-5047	535	1325/24	0.895	22.73	90	2.29	1.075	27.31	1697	2525	1888	2810	828	894
05-5048	646	1600/24	0.980	24.89	90	2.29	1.160	29.46	2020	3006	2231	3320	931	1005
05-5049	777	1925/24	1.075	27.31	90	2.29	1.255	31.88	2435	3624	2681	3990	1047	1130
05-5050	929	2300/24	1.230	31.24	90	2.29	1.410	35.81	3117	4638	3431	5106	1168	1260
05-5051	1111	2750/24	1.328	33.73	110	2.79	1.548	39.32	3400	5060	3972	5911	1254	1354

POLYRAD XT 2000 V – HEAVY WALL INSULATION THICKNESS

05-5052	4/0	550/24	0.593	15.06	105	2.67	0.803	20.40	696	1036	837	1246	446	482
05-5053	262	650/24	0.630	16.00	105	2.67	0.840	21.34	820	1220	969	1442	524	566
05-5054	313	775/24	0.685	17.40	105	2.67	0.895	22.73	987	1469	1149	1710	590	637
05-5055	373	925/24	0.750	19.05	105	2.67	0.960	24.38	1176	1750	1353	2013	657	710
05-5056	444	1100/24	0.820	20.83	105	2.67	1.030	26.16	1413	2207	1607	2392	734	793
05-5057	535	1325/24	0.895	22.73	120	3.05	1.135	28.83	1697	2525	1946	2896	828	894
05-5058	646	1600/24	0.980	24.89	120	3.05	1.220	30.99	2020	3006	2285	3400	931	1005
05-5059	777	1925/24	1.075	27.31	120	3.05	1.315	33.40	2435	3624	2727	4058	1047	1130
05-5060	929	2300/24	1.230	31.24	120	3.05	1.470	37.34	3117	4638	3539	5267	1168	1260
05-5061	1111	2750/24	1.328	33.73	120	3.05	1.568	39.83	3400	5060	4011	5969	1254	1354

Note #1: Where additional insulation thickness is desired for added mechanical protection, these values are noted in the second chart.

Note #2: 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.

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