

Polyrad® XT-TX Flexible Wire and Cable

2000 V, Single-Conductor, NYCT Type TX

Product Construction:

Conductor:

- 20 AWG thru 535 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-TX 1/C XXAWG 2000 V NYCT TX 20-90-XXXX DAY/MONTH/YEAR XXXX = NYCT TX Stock Code - last x is used to identify insulation color as listed below: 0 = Black, 1 = White, 2 = Red, 3 = Blue, 4 = Green, 5 = Orange, 6 = Yellow, 7 = Gray, 8 = Brown, 9 = Purple

Options:

- 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:

- Cables meet NYCT TX specification
- Temperature rating at 110°C
- Excellent flexibility and 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 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- VW-1

Other:

- Meets NYCT TX specification
- BSS 7239
- SMP 800-C
- ASTM E662
- NFPA 130 STD 2010

Packaging:

- Standard reel put-up



POLYRAD® XT-TX 2000 V

CATALOG NUMBER	NYCT TYPE TX STOCK CODE NUMBER	CONDUCTOR (AWG/kcmil) SIZE AND STRANDING		NOMINAL CONDUCTOR DIAMETER		MINIMUM AVERAGE INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET CABLE WEIGHT		AMPACITY (FREE AIR 40°C AMBIENT) 110°C
				INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km	LBS./1000'	kg/km	
390500	*	20	19/32	0.038	0.97	45	1.14	0.130	3.30	4	6	11	16	15
390140	20-90-160X	18	19/30	0.048	1.22	45	1.14	0.140	3.56	6	9	15	22	17
390150	20-90-180X	16	19/29	0.054	1.37	45	1.14	0.146	3.71	8	13	17	25	23
390160	20-90-200X	14	19/27	0.067	1.70	45	1.14	0.159	4.04	12	18	23	34	39
390170	20-90-220X	12	19/25	0.086	2.18	45	1.14	0.178	4.52	19	28	32	48	51
390180	20-90-240X	10	27/24	0.117	2.97	45	1.14	0.209	5.31	34	50	49	73	67
390190	20-90-260X	8	37/24	0.135	3.43	55	1.40	0.249	6.33	47	70	68	101	85
390200	20-90-280X	6	61/24	0.174	4.60	55	1.40	0.288	7.32	76	114	104	155	120
390210	*	5	91/24	0.242	6.15	55	1.40	0.356	9.04	116	173	149	222	151
390220	20-90-320X	4	105/24	0.262	6.65	55	1.40	0.376	9.55	137	204	172	256	160
390230	20-90-340X	3	125/24	0.285	7.24	55	1.40	0.399	10.14	167	249	201	299	199
390240	20-90-360X	2	150/24	0.307	7.80	55	1.40	0.421	10.69	190	283	230	343	214
390250	20-90-380X	1	225/24	0.380	9.65	65	1.65	0.514	13.06	287	427	357	531	247
390260	20-90-400X	1/0	275/24	0.410	10.41	65	1.65	0.544	13.82	351	522	424	631	286
389730	20-90-420X	2/0	325/24	0.470	11.94	65	1.65	0.604	15.34	407	606	485	722	329
390270	20-90-440X	3/0	450/24	0.549	13.94	65	1.65	0.683	17.35	594	884	667	993	380
390280	20-90-460X	4/0	550/24	0.593	15.06	65	1.65	0.727	18.47	696	1036	796	1185	446
390290	20-90-480X	262	650/24	0.630	16.00	105	2.67	0.844	21.44	820	1220	936	1393	524
389750	20-90-500X	313	775/24	0.685	17.40	105	2.67	0.899	26.30	987	1469	1113	1656	590
390300	20-90-520X	373	925/24	0.750	19.05	105	2.67	0.964	24.49	1176	1750	1315	1957	657
390310	20-90-540X	444	1100/24	0.820	20.83	105	2.67	1.034	26.26	1413	2103	1566	2330	734
390320	20-90-560X	535	1325/24	0.895	22.73	105	2.67	1.109	28.17	1697	2525	1894	2819	828

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.

*Sizes without NYCT Type TX stock code numbers are not listed in the NYCT TX specification.

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