

Polyrad® XT-TX Flexible Wire and Cable

600 V, Single-Conductor, NYCT Type TX



POLYRAD® XT-TX 600 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) |
|----------------|--------------------------------|--|--------|----------------------------|-------|--------------------------------------|------|------------------------|-------|---------------|-------|------------------|-------|----------------------------------|
| | | | | INCHES | mm | MILS | mm | INCHES | mm | LBS./1000' | kg/km | LBS./1000' | kg/km | |
| 389980 | * | 20 | 19/32 | 0,038 | 0,97 | 30 | 0,76 | 0,100 | 2,54 | 4 | 6 | 9 | 13 | 15 |
| 389990 | 20-88-150X | 18 | 19/30 | 0,048 | 1,22 | 30 | 0,76 | 0,110 | 2,79 | 6 | 9 | 12 | 18 | 17 |
| 389740 | 20-88-170X | 16 | 19/29 | 0,054 | 1,37 | 30 | 0,76 | 0,116 | 2,95 | 8 | 13 | 13 | 19 | 23 |
| 390000 | 20-88-190X | 14 | 19/27 | 0,067 | 1,70 | 30 | 0,76 | 0,129 | 3,28 | 12 | 18 | 18 | 27 | 39 |
| 390010 | 20-88-210X | 12 | 19/25 | 0,086 | 2,18 | 30 | 0,76 | 0,148 | 3,76 | 19 | 28 | 27 | 40 | 51 |
| 390020 | 20-88-230X | 10 | 27/24 | 0,117 | 2,97 | 30 | 0,76 | 0,179 | 4,55 | 34 | 50 | 43 | 64 | 67 |
| 390030 | 20-88-250X | 8 | 37/24 | 0,135 | 3,43 | 45 | 1,14 | 1,227 | 5,77 | 47 | 70 | 63 | 94 | 85 |
| 390040 | 20-88-270X | 6 | 61/24 | 0,174 | 4,42 | 45 | 1,14 | 0,266 | 6,75 | 76 | 114 | 97 | 144 | 120 |
| 390050 | * | 5 | 91/24 | 0,242 | 6,15 | 45 | 1,14 | 0,334 | 8,48 | 116 | 173 | 141 | 210 | 151 |
| 390060 | 20-88-290X | 4 | 105/24 | 0,262 | 6,65 | 45 | 1,14 | 0,354 | 8,99 | 137 | 204 | 164 | 244 | 160 |
| 390070 | 20-88-310X | 3 | 125/24 | 0,285 | 7,24 | 45 | 1,14 | 0,377 | 9,58 | 167 | 249 | 193 | 287 | 199 |
| 390080 | 20-88-330X | 2 | 150/24 | 0,307 | 7,80 | 45 | 1,14 | 0,399 | 10,14 | 190 | 283 | 220 | 327 | 214 |
| 390090 | 20-88-380X | 1 | 225/24 | 0,380 | 9,65 | 55 | 1,40 | 0,494 | 12,55 | 287 | 427 | 349 | 519 | 247 |
| 390100 | * | 1/0 | 275/24 | 0,410 | 10,41 | 55 | 1,40 | 0,524 | 13,31 | 351 | 522 | 417 | 621 | 286 |
| 390110 | * | 2/0 | 325/24 | 0,470 | 11,94 | 55 | 1,40 | 0,584 | 14,83 | 407 | 606 | 474 | 705 | 329 |
| 390120 | * | 3/0 | 450/24 | 0,549 | 13,94 | 55 | 1,40 | 0,663 | 16,84 | 594 | 884 | 655 | 975 | 380 |
| 390130 | 20-88-460X | 4/0 | 550/24 | 0,593 | 15,06 | 55 | 1,40 | 0,707 | 17,96 | 696 | 1036 | 774 | 1152 | 446 |

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 |

Product Construction:

Conductor:

- 20 AWG thru 4/0 AWG 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 600 V NYCT TX 20-88-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 multi-conductor constructions
- 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 & 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 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:

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|----------------|--------------------------------|--|---------|----------------------------|-------|------|------|--------------------------------------|-------|------------------------|-------|---------------|-------|------------------|--|--|
| | | | | 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 | | |

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Phone: 866.248.7060
www.generalcable.com



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