# UL Single Core & Hook-up Wire

LAPP products are available from

## MARYLAND METRICS

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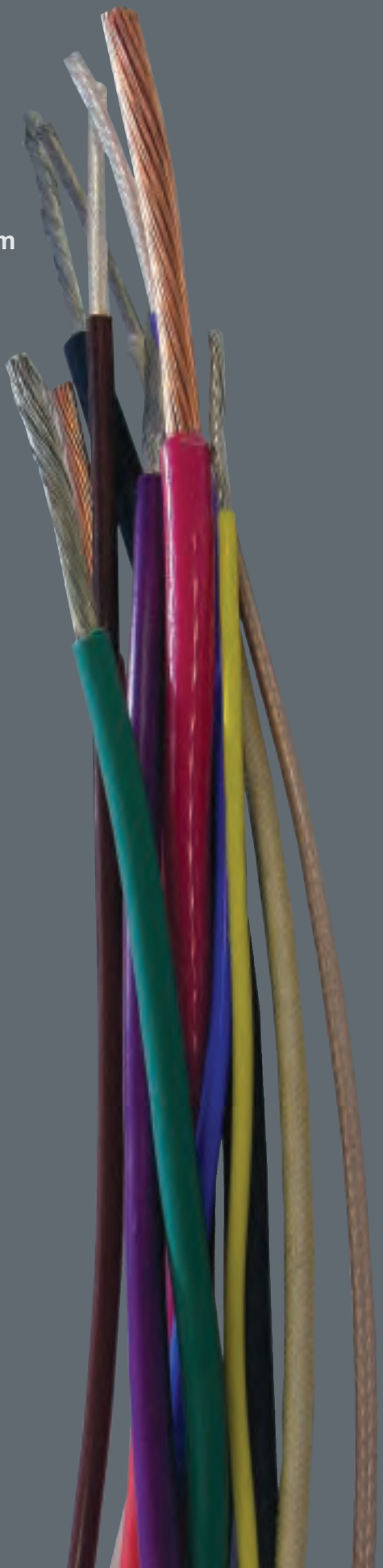

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# UL Single Core & Hook-up Wire

# UL Hook-up Wire

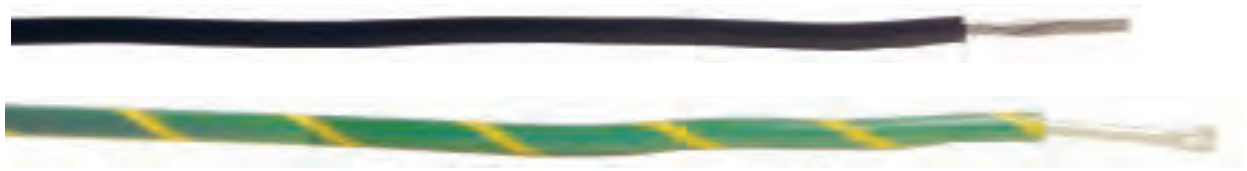
## PVC Hook-up Wire with UL/CSA Approvals
## UL 1061, 1007/1569, 1015/1230, 1028, 1283

Lapp Group offers four versions of UL hook-up wire:

- UL Style 1061 is a thin wall UL & CSA wire rated for 300V & 80°C
- UL Style 1007/1569 is a UL & CSA approved wire with a 15 mil insulation and rated for 300V & 80°C/105°C
- UL Style 1015/1230 has a thicker insulation with UL & CSA approval rated for 600V & 105°C
- UL Style 1028 & 1283 have the heaviest wall thickness with UL & CSA approval, rated for 600V & 105°C

### UL Hook-up Wire Construction:

Solid or stranded tinned copper with PVC insulation



### Technical Data:

Temperature Range:
- UL 1061: 80°C
- UL 1007/1569: 80°C/ 105°C
- UL 1015/1230,1028,1283: 105°C

Rated Voltage:
- UL 1061: 300V
- UL 1007/1569: 300V
- UL 1015/1230,1028,1283: 600V

Conductor Stranding: Solid and/or Stranded

Color Code: Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54-Green/Yellow

Approvals:
- UL 1061: CSA Type AWM I A/B, VW-1
- UL 1007/1569: CSA Type TR-64, VW-1
- UL 1015/1230,1028,1283: CSA Type TEW, AWM I A/B, VW-1

| Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter |
|---|---|---|---|---|
| **UL Style 1061** | | | | |
| 1061-26-1-X | 26 | 1/26 | 9 | .036 |
| 1061-26-7-X | 26 | 7/34 | 9 | .037 |
| 1061-24-1-X | 24 | 1/24 | 9 | .041 |
| 1061-24-7-X | 24 | 7/32 | 9 | .042 |
| 1061-22-1-X | 22 | 1/22 | 9 | .046 |
| 1061-22-7-X | 22 | 7/30 | 9 | .049 |
| 1061-20-1-X | 20 | 1/20 | 9 | .052 |
| 1061-20-10-X | 20 | 10/30 | 9 | .057 |
| 1061-18-1-X | 18 | 1/18 | 9 | .060 |
| 1061-18-16-X | 18 | 16/30 | 9 | .067 |
| 1061-16-26-X | 16 | 26/30 | 9 | .076 |
| **UL Style 1007/1569** | | | | |
| 1007-28-1-X | 28 | 1/28 | 15 | .047 |
| 1007-28-7-X | 28 | 7/36 | 15 | .049 |
| 1007-26-1-X | 26 | 1/26 | 15 | .050 |
| 1007-26-7-X | 26 | 7/34 | 15 | .052 |
| 1007-24-1-X | 24 | 1/24 | 15 | .055 |
| 1007-24-7-X | 24 | 7/32 | 15 | .058 |
| 1007-22-1-X | 22 | 1/22 | 15 | .059 |
| 1007-22-7-X | 22 | 7/30 | 15 | .065 |
| 1007-20-1-X | 20 | 1/20 | 15 | .066 |
| 1007-20-10-X | 20 | 10/30 | 15 | .070 |
| 1007-18-1-X | 18 | 1/18 | 15 | .074 |
| 1007-18-16-X | 18 | 16/30 | 15 | .080 |
| 1007-16-1-X | 16 | 1/16 | 15 | .085 |
| 1007-16-26-X | 16 | 26/30 | 15 | .094 |

| Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter |
|---|---|---|---|---|
| **UL Style 1015/1230** | | | | |
| 1015-26-1-X | 26 | 1/26 | 31 | .080 |
| 1015-26-7-X | 26 | 7/34 | 31 | .083 |
| 1015-24-1-X | 24 | 1/24 | 31 | .085 |
| 1015-24-7-X | 24 | 7/32 | 31 | .088 |
| 1015-22-1-X | 22 | 1/22 | 31 | .093 |
| 1015-22-7-X | 22 | 7/30 | 31 | .095 |
| 1015-20-1-X | 20 | 1/20 | 31 | .098 |
| 1015-20-10-X | 20 | 10/30 | 31 | .100 |
| 1015-18-1-X | 18 | 1/18 | 31 | .104 |
| 1015-18-16-X | 18 | 16/30 | 31 | .110 |
| 1015-16-1-X | 16 | 1/16 | 31 | .115 |
| 1015-16-26-X | 16 | 26/30 | 31 | .124 |
| 1015-14-1-X | 14 | 1/14 | 31 | .130 |
| 1015-14-41-X | 14 | 41/30 | 31 | .141 |
| 1015-12-1-X | 12 | 1/12 | 31 | .145 |
| 1015-12-65-X | 12 | 65/30 | 31 | .160 |
| 1015-10-1-X | 10 | 1/10 | 31 | .166 |
| 1015-10-105-X | 10 | 105/30 | 31 | .194 |
| **UL Style 1028** | | | | |
| 1028-8-133-X | 8 | 133/29 | 47 | .255 |
| **UL Style 1283** | | | | |
| 1283-6-133-X | 6 | 133/27 | 62.5 | .335 |
| 1283-4-133-X | 4 | 133/25 | 62.5 | .390 |
| 1283-2-133-X | 2 | 133/23 | 62.5 | .460 |

# PTFE Hook-up & Lead Wire

High Temperature PTFE Wire: Type E, EE & ET

**UL 1180, 1213**

Lapp Group's offering of PTFE hook-up wire is available in solid or stranded copper. The PTFE insulation is excellent in oils, gasoline, and chemicals. The wire has a low coefficient of friction for easy installation and is self-extinguishing and non-flammable. All versions have a PTFE insulation extruded wall.

Lapp offers three versions of PTFE hook-up wire:

- Type E = meets NEMA HP3, has a 10 mil insulation thickness and is 600V & 200°C
- Type EE = meets NEMA HP3 and has a 15 mil insulation thickness. It has a higher voltage of 1000V
- Type ET = meets NEMA HP3 and is a thin wall design with a lower voltage rating of 250V

## PTFE Hook-up & Lead Wire Construction:

Solid or stranded silver plated annealed copper, Polytetrafluoroethylene(PTFE) insulation

## Technical Data:

Temperature Range:

| | |
|---|---|
| Type E: | 200°C |
| UL 1213: | 105°C |
| Type EE & UL 1180: | 200°C |
| Type ET: | 200°C |

Rated Voltage:

| | |
|---|---|
| Type E: | 600V |
| UL1213: | N/A |
| Type EE: | 1000V |
| UL 1180: | 300V |
| Type ET: | 250V |

Conductor Stranding: Solid and/or Stranded

Color Code: Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54-Green/Yellow

Approvals:

| | |
|---|---|
| UL: | 1180, 1213 |
| Additional: | NEMA HP3 |

* NEMA HP3 replaces M16878

## PTFE Hook-up & Lead Wire: Type E, UL 1213, NEMA HP 3, M16878

| Type E Part Number | UL 1213 Part Number | AWG | Stranding | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| E30-1-X | 1213-30-1-X | 30 | 1/30 | 10 | .89 |
| E30-7-X | 1213-30-7-X | 30 | 7/38 | 10 | .98 |
| E28-1-X | 1213-28-1-X | 28 | 1/28 | 10 | 1.2 |
| E28-7-X | 1213-28-7-X | 28 | 7/36 | 10 | 1.3 |
| E28-19-X | 1213-28-19-X | 28 | 19/40 | 10 | 1.4 |
| E26-1-X | 1213-26-1-X | 26 | 1/26 | 10 | 1.5 |
| E26-7-X | 1213-26-7-X | 26 | 7/34 | 10 | 1.7 |
| E26-19-X | 1213-26-19-X | 26 | 19/38 | 10 | 1.8 |
| E24-1-X | 1213-24-1-X | 24 | 1/24 | 10 | 2.1 |
| E24-7-X | 1213-24-7-X | 24 | 7/32 | 10 | 2.4 |
| E24-19-X | 1213-24-19-X | 24 | 19/36 | 10 | 2.5 |
| E22-1-X | 1213-22-1-X | 22 | 1/22 | 10 | 3.0 |
| E22-7-X | 1213-22-7-X | 22 | 7/30 | 10 | 3.3 |
| E22-19-X | 1213-22-19-X | 22 | 19/34 | 10 | 3.5 |
| E20-1-X | 1213-20-1-X | 20 | 1/20 | 10 | 4.3 |
| E20-7-X | 1213-20-7-X | 20 | 7/28 | 10 | 4.9 |
| E20-19-X | 1213-20-19-X | 20 | 19/32 | 10 | 5.1 |
| E18-1-X | | 18 | 1/18 | 10 | 6.5 |
| E18-7-X | | 18 | 7/26 | 10 | 7.3 |
| E18-19-X | | 18 | 19/30 | 10 | 7.7 |
| E16-19-X | | 16 | 19/29 | 13 | 11.0 |
| E14-19-X | | 14 | 19/27 | 13 | 16.4 |
| E12-19-X | | 12 | 19/25 | 15 | 22.0 |
| E10-37-X | | 10 | 37/26 | 13 | 34.4 |

*Insulation thickness for UL1213 is 10 mils.

# PTFE Hook-up & Lead Wire

## High Temperature PTFE Wire: Type E, EE & ET

**UL 1180, 1213**

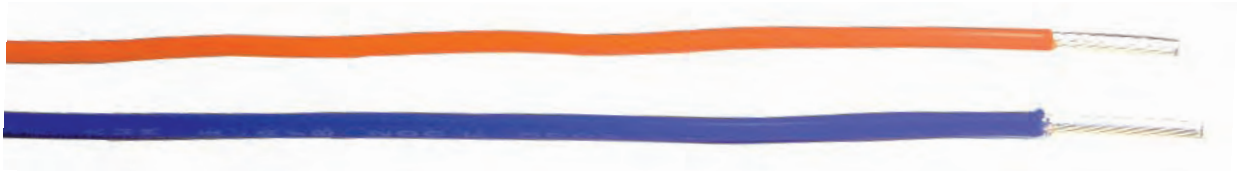
Lapp Group's offering of PTFE hook-up wire is available in solid or stranded copper. The PTFE insulation is excellent in oils, gasoline, and chemicals. The wire has a low coefficient of friction for easy installation and is self-extinguishing and non-flammable. All versions have a PTFE insulation extruded wall.

Lapp offers three versions of PTFE hook-up wire:

- Type E = meets NEMA HP3, has a 10 mil insulation thickness and is 600V & 200°C
- Type EE = meets NEMA HP3 and has a 15 mil insulation thickness. It has a higher voltage of 1000V
- Type ET = meets NEMA HP3 and is a thin wall design with a lower voltage rating of 250V

## PTFE Hook-up & Lead Wire Construction:

Solid or stranded silver plated annealed copper, Polytetrafluoroethylene(PTFE) insulation



## Technical Data:

Temperature Range:

| | |
|---|---|
| Type E: | 200°C |
| UL 1213: | 105°C |
| Type EE & UL 1180: | 200°C |
| Type ET: | 200°C |

Rated Voltage:

| | |
|---|---|
| Type E: | 600V |
| UL1213: | N/A |
| Type EE: | 1000V |
| UL 1180: | 300V |
| Type ET: | 250V |

Conductor Stranding: Solid and/or Stranded

Color Code: Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54-Green/Yellow

Approvals: UL: 1180, 1213
Additional: NEMA HP3

* NEMA HP3 replaces M16878

## PTFE Hook-up & Lead Wire: Type E, UL 1213, NEMA HP 3, M16878

| Type E Part Number | UL 1213 Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|---|
| E30-1-X | 1213-30-1-X | 30 | 1/30 | 10 | .030 | .89 |
| E30-7-X | 1213-30-7-X | 30 | 7/38 | 10 | .032 | .98 |
| E28-1-X | 1213-28-1-X | 28 | 1/28 | 10 | .033 | 1.2 |
| E28-7-X | 1213-28-7-X | 28 | 7/36 | 10 | .035 | 1.3 |
| E28-19-X | 1213-28-19-X | 28 | 19/40 | 10 | .036 | 1.4 |
| E26-1-X | 1213-26-1-X | 26 | 1/26 | 10 | .036 | 1.5 |
| E26-7-X | 1213-26-7-X | 26 | 7/34 | 10 | .039 | 1.7 |
| E26-19-X | 1213-26-19-X | 26 | 19/38 | 10 | .040 | 1.8 |
| E24-1-X | 1213-24-1-X | 24 | 1/24 | 10 | .040 | 2.1 |
| E24-7-X | 1213-24-7-X | 24 | 7/32 | 10 | .044 | 2.4 |
| E24-19-X | 1213-24-19-X | 24 | 19/36 | 10 | .045 | 2.5 |
| E22-1-X | 1213-22-1-X | 22 | 1/22 | 10 | .045 | 3.0 |
| E22-7-X | 1213-22-7-X | 22 | 7/30 | 10 | .050 | 3.3 |
| E22-19-X | 1213-22-19-X | 22 | 19/34 | 10 | .051 | 3.5 |
| E20-1-X | 1213-20-1-X | 20 | 1/20 | 10 | .052 | 4.3 |
| E20-7-X | 1213-20-7-X | 20 | 7/28 | 10 | .058 | 4.9 |
| E20-19-X | 1213-20-19-X | 20 | 19/32 | 10 | .058 | 5.1 |
| E18-1-X | | 18 | 1/18 | 10 | .061 | 6.5 |
| E18-7-X | | 18 | 7/26 | 10 | .069 | 7.3 |
| E18-19-X | | 18 | 19/30 | 10 | .069 | 7.7 |
| E16-19-X | | 16 | 19/29 | 13 | .080 | 11.0 |
| E14-19-X | | 14 | 19/27 | 13 | .095 | 16.4 |
| E12-19-X | | 12 | 19/25 | 15 | .114 | 22.0 |
| E10-37-X | | 10 | 37/26 | 13 | .134 | 34.4 |

*Insulation thickness for UL1213 is 10 mils.

# PTFE Hook-up & Lead Wire

High Temperature PTFE Wire: Type E, EE & ET

**UL 1180, 1213**

## PTFE Hook-up & Lead Wire: Type EE & UL 1180, NEMA HP3, M16878

| Type EE Part Number | UL 1180 Part Number | AWG | Stranding | Insulation Thickness* (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|---|
| EE30-1-X | | 30 | 1/30 | 15 | .040 | 1.4 |
| EE30-7-X | | 30 | 7/38 | 15 | .042 | 1.5 |
| EE28-1-X | 1180-28-1-X | 28 | 1/28 | 15 | .043 | 1.7 |
| EE28-7-X | 1180-28-7-X | 28 | 7/36 | 15 | .045 | 1.9 |
| EE28-19-X | 1180-28-19-X | 28 | 19/40 | 15 | .046 | 2.0 |
| EE26-1-X | 1180-26-1-X | 26 | 1/26 | 15 | .046 | 2.1 |
| EE26-7-X | 1180-26-7-X | 26 | 7/34 | 15 | .049 | 2.4 |
| EE26-19-X | 1180-26-19-X | 26 | 19/38 | 15 | .049 | 2.5 |
| EE24-1-X | 1180-24-1-X | 24 | 1/24 | 15 | .050 | 2.8 |
| EE24-7-X | 1180-24-7-X | 24 | 7/32 | 15 | .054 | 3.1 |
| EE24-19-X | 1180-24-19-X | 24 | 19/36 | 15 | .055 | 3.3 |
| EE22-1-X | 1180-22-1-X | 22 | 1/22 | 15 | .055 | 3.7 |
| EE22-7-X | 1180-22-7-X | 22 | 7/30 | 15 | .060 | 4.2 |
| EE22-19-X | 1180-22-19-X | 22 | 19/34 | 15 | .061 | 4.4 |
| EE20-1-X | 1180-20-1-X | 20 | 1/20 | 15 | .062 | 5.2 |
| EE20-7-X | 1180-20-7-X | 20 | 7/28 | 15 | .068 | 5.8 |
| EE20-19-X | 1180-20-19-X | 20 | 19/32 | 15 | .069 | 6.1 |
| EE18-1-X | 1180-18-1-X | 18 | 1/18 | 15 | .071 | 7.4 |
| EE18-7-X | 1180-18-7-X | 18 | 7/26 | 15 | .079 | 8.4 |
| EE18-19-X | 1180-18-19-X | 18 | 19/30 | 15 | .079 | 8.8 |
| EE16-19-X | 1180-16-19-X | 16 | 19/29 | 18 | .089 | 11.0 |
| EE14-19-X | 1180-14-19-X | 14 | 19/27 | 18 | .106 | 16.4 |
| EE12-19-X | 1180-12-19-X | 12 | 19/25 | 21 | .125 | 22.0 |
| EE10-37-X | 1180-10-37-X | 10 | 37/26 | 19 | .145 | 34.4 |
| EE8-133-X | | 8 | 133/29 | 24 | .209 | 67.0 |

* Insulation Thickness for UL 1180 is 13 mils.

## PTFE Hook-up & Lead Wire: Type ET, NEMA HP3, M16878

| Type ET Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| ET30-1-X | 30 | 1/30 | 6 | .022 | .58 |
| ET30-7-X | 30 | 7/38 | 6 | .024 | .66 |
| ET28-1-X | 28 | 1/28 | 6 | .025 | .81 |
| ET28-7-X | 28 | 7/36 | 6 | .027 | .90 |
| ET28-19-X | 28 | 19/40 | 6 | .027 | .91 |
| ET26-1-X | 26 | 1/26 | 6 | .028 | 1.2 |
| ET26-7-X | 26 | 7/34 | 6 | .031 | 1.3 |
| ET26-19-X | 26 | 19/38 | 6 | .031 | 1.3 |
| ET24-1-X | 24 | 1/24 | 6 | .032 | 1.7 |
| ET24-7-X | 24 | 7/32 | 6 | .036 | 1.9 |
| ET24-19-X | 24 | 19/36 | 6 | .036 | 2.0 |
| ET22-1-X | 22 | 1/22 | 6 | .038 | 2.5 |
| ET22-7-X | 22 | 7/30 | 6 | .042 | 2.8 |
| ET22-19-X | 22 | 19/34 | 6 | .042 | 2.9 |
| ET20-1-X | 20 | 1/20 | 6 | .044 | 3.8 |
| ET20-7-X | 20 | 7/28 | 6 | .050 | 4.3 |
| ET20-19-X | 20 | 19/32 | 6 | .052 | 4.6 |

# PTFE Hook-up & Lead Wire

High Temperature PTFE Wire: Type E, EE & ET

**UL 1180, 1213**

## PTFE Hook-up & Lead Wire: Type EE & UL 1180, NEMA HP3, M16878

| Type EE Part Number | UL 1180 Part Number | AWG | Stranding | Insulation Thickness* (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|---|
| EE30-1-X | | 30 | 1/30 | 15 | .040 | 1.4 |
| EE30-7-X | | 30 | 7/38 | 15 | .042 | 1.5 |
| EE28-1-X | 1180-28-1-X | 28 | 1/28 | 15 | .043 | 1.7 |
| EE28-7-X | 1180-28-7-X | 28 | 7/36 | 15 | .045 | 1.9 |
| EE28-19-X | 1180-28-19-X | 28 | 19/40 | 15 | .046 | 2.0 |
| EE26-1-X | 1180-26-1-X | 26 | 1/26 | 15 | .046 | 2.1 |
| EE26-7-X | 1180-26-7-X | 26 | 7/34 | 15 | .049 | 2.4 |
| EE26-19-X | 1180-26-19-X | 26 | 19/38 | 15 | .049 | 2.5 |
| EE24-1-X | 1180-24-1-X | 24 | 1/24 | 15 | .050 | 2.8 |
| EE24-7-X | 1180-24-7-X | 24 | 7/32 | 15 | .054 | 3.1 |
| EE24-19-X | 1180-24-19-X | 24 | 19/36 | 15 | .055 | 3.3 |
| EE22-1-X | 1180-22-1-X | 22 | 1/22 | 15 | .055 | 3.7 |
| EE22-7-X | 1180-22-7-X | 22 | 7/30 | 15 | .060 | 4.2 |
| EE22-19-X | 1180-22-19-X | 22 | 19/34 | 15 | .061 | 4.4 |
| EE20-1-X | 1180-20-1-X | 20 | 1/20 | 15 | .062 | 5.2 |
| EE20-7-X | 1180-20-7-X | 20 | 7/28 | 15 | .068 | 5.8 |
| EE20-19-X | 1180-20-19-X | 20 | 19/32 | 15 | .069 | 6.1 |
| EE18-1-X | 1180-18-1-X | 18 | 1/18 | 15 | .071 | 7.4 |
| EE18-7-X | 1180-18-7-X | 18 | 7/26 | 15 | .079 | 8.4 |
| EE18-19-X | 1180-18-19-X | 18 | 19/30 | 15 | .079 | 8.8 |
| EE16-19-X | 1180-16-19-X | 16 | 19/29 | 18 | .089 | 11.0 |
| EE14-19-X | 1180-14-19-X | 14 | 19/27 | 18 | .106 | 16.4 |
| EE12-19-X | 1180-12-19-X | 12 | 19/25 | 21 | .125 | 22.0 |
| EE10-37-X | 1180-10-37-X | 10 | 37/26 | 19 | .145 | 34.4 |
| EE8-133-X | | 8 | 133/29 | 24 | .209 | 67.0 |

* Insulation Thickness for UL 1180 is 13 mils.

## PTFE Hook-up & Lead Wire: Type ET, NEMA HP3, M16878

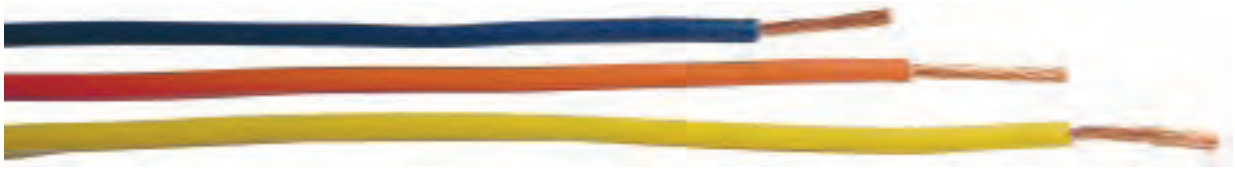
| Type ET Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| ET30-1-X | 30 | 1/30 | 6 | .022 | .58 |
| ET30-7-X | 30 | 7/38 | 6 | .024 | .66 |
| ET28-1-X | 28 | 1/28 | 6 | .025 | .81 |
| ET28-7-X | 28 | 7/36 | 6 | .027 | .90 |
| ET28-19-X | 28 | 19/40 | 6 | .027 | .91 |
| ET26-1-X | 26 | 1/26 | 6 | .028 | 1.2 |
| ET26-7-X | 26 | 7/34 | 6 | .031 | 1.3 |
| ET26-19-X | 26 | 19/38 | 6 | .031 | 1.3 |
| ET24-1-X | 24 | 1/24 | 6 | .032 | 1.7 |
| ET24-7-X | 24 | 7/32 | 6 | .036 | 1.9 |
| ET24-19-X | 24 | 19/36 | 6 | .036 | 2.0 |
| ET22-1-X | 22 | 1/22 | 6 | .038 | 2.5 |
| ET22-7-X | 22 | 7/30 | 6 | .042 | 2.8 |
| ET22-19-X | 22 | 19/34 | 6 | .042 | 2.9 |
| ET20-1-X | 20 | 1/20 | 6 | .044 | 3.8 |
| ET20-7-X | 20 | 7/28 | 6 | .050 | 4.3 |
| ET20-19-X | 20 | 19/32 | 6 | .052 | 4.6 |

# Single Core Wire for Automotive Applications

Type SXL, GXL, TXL & GPT

Lapp Group now offers Automotive Primary Wire. The styles and descriptions are noted below.

## Type SXL, GXL, TXL & GPT



### Type SXL: (XLP)

Type SXL, single core wire with XLP insulation, is for use in engine compartments where high heat resistance is required according to SAE J-1128. It also meets Ford (Mil-85A) and Chrysler (MS-5919).

### Technical Data:

Temperature Range: -51°C to +125°C

Color Code: Available in solid colors and stripes
Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54- Green/Yellow

| Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| SXL-20-X | 20 | 7/28 | .029 | .096 | 7.0 |
| SXL-18-X | 18 | 16/30 | .030 | .107 | 9.5 |
| SXL-16-X | 16 | 19/29 | .032 | .120 | 12.7 |
| SXL-14-X | 14 | 19/27 | .035 | .141 | 19.0 |
| SXL-12-X | 12 | 19/25 | .037 | .163 | 27.6 |
| SXL-10-X | 10 | 19/23 | .041 | .193 | 40.6 |
| SXL-08-X | 8 | 19/21 | .043 | .227 | 92.0 |
| SXL-06-X | 6 | 37/21 | .055 | .310 | 118.0 |

### Type GXL: Thin Wall (XLP)

Type GXL, single core wire with a thin wall XLP insulation, is for use in engine compartments where high heat resistance is required according to SAE J-1128. It also meets Ford (Mil-85A) and Chrysler (MS-8900).

### Technical Data:

Temperature Range: -51°C to +125°C

Color Code: Available in solid colors and stripes
Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54- Green/Yellow

| Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| GXL-20-X | 20 | 7/28 | .023 | .085 | 6.0 |
| GXL-18-X | 18 | 16/30 | .023 | .092 | 8.0 |
| GXL-16-X | 16 | 19/29 | .023 | .103 | 11.5 |
| GXL-14-X | 14 | 19/27 | .023 | .117 | 16.0 |
| GXL-12-X | 12 | 19/25 | .026 | .142 | 24.0 |
| GXL-10-X | 10 | 19/23 | .031 | .179 | 37.0 |
| GXL-08-X | 8 | 19/21 | .037 | .218 | 68.0 |
| GXL-06-X | 6 | 37/21 | .043 | .285 | 112.0 |

* Custom striping, printing or numbering is available. Call factory for details.

# Single Core Wire for Automotive Applications

Type SXL, GXL, TXL & GPT

## Type TXL: Extra Thin Wall (XLP):

Type TXL, single core wire, has an extra thin wall of XLP insulation for automotive applications requiring smaller diameters and minimal weight. It meets SAE J-1128 as well as Ford (Mil-123A) and Chrysler (MS-8288).

## Technical Data:

Temperature Range: -51°C to +125°C

Color Code: Available in solid colors and stripes
Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54-Green/Yellow

| Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| TXL-20-X | 20 | 7/28 | .016 | .070 | 5.0 |
| TXL-18-X | 18 | 19/30 | .016 | .078 | 6.9 |
| TXL-16-X | 16 | 19/29 | .016 | .088 | 9.4 |
| TXL-14-X | 14 | 19/27 | .016 | .103 | 14.1 |
| TXL-12-X | 12 | 19/25 | .016 | .126 | 22.2 |

* Custom striping, printing or numbering is available. Call factory for details.

## Type GPT: Thin Wall (PVC)

Type GPT, single core cable with a thin wall PVC jacket, is for use in general circuit wiring according to SAE J-1128. It also meets Ford (Mil-56A) and Chrysler (MS-3450).

## Technical Data:

Temperature Range: -40°C to +80°C

Color Code: Available in solid colors and stripes
Enter the digit for the color where the "X" is in the Part Number
0-Black, 1-Brown, 2-Red, 3-Orange, 4-Yellow, 5-Green, 6-Blue, 7-Violet, 8-Gray, 9-White, 54-Green/Yellow

| Part Number | AWG | Stranding | Insulation Thickness (mils) | Nominal Outer Diameter | Weight lbs/mft |
|---|---|---|---|---|---|
| GPT-20-X | 20 | 7/28 | .023 | .083 | 6.2 |
| GPT-18-X | 18 | 16/30 | .023 | .091 | 8.3 |
| GPT-16-X | 16 | 19/29 | .023 | .103 | 11.5 |
| GPT-14-X | 14 | 19/27 | .023 | .117 | 16.8 |
| GPT-12-X | 12 | 19/25 | .026 | .143 | 25.2 |
| GPT-10-X | 10 | 19/23 | .031 | .175 | 40.0 |
| GPT-08-X | 8 | 19/21 | .037 | .216 | 63.0 |
| GPT-06-X | 6 | 133/2 | .043 | .281 | 114.0 |

* Custom striping, printing or numbering is available. Call factory for details.

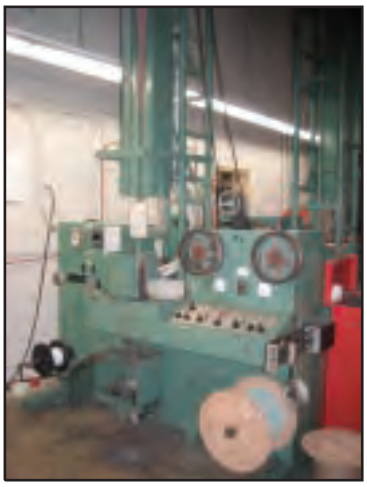
# Striping, Dyeing & Twisting

## Custom Fabrication Capabilities

UL & CSA Approved

The Lapp Group has the ability to do custom fabrication to single core wire such as striping, dyeing, twisting and even printing. We have UL & CSA approval to respool & repack the wire to meet your custom lengths (max OD: .750). The standard minimum is 1000 ft.

Below is a chart giving the details of our capabilities based on the single core wire offered in this section of the catalog.



### Spiral Striping:

- 28 AWG to 10 AWG up to 3 stripes
- 1000 ft minimum
- Ability to identify the wire for easier installation
- Quick turn around time

### Twisting:

- 30 AWG to 10 AWG up to 4 wires
- 1000 ft minimum
- Ability to twist per spec
- Quick turn around time

### Dyeing:

- 28 AWG to 10 AWG
- 1000 ft minimum
- PVC Insulation
- Quick turn around time

### Printing

- 22 AWG to 10 AWG
- Print wheels are made to order
- 1000 ft minimum

| Wire Type | PVC 1015, 1028, 1283, 1007, 1061 | XLP GXL, SXL, TXL | Teflon® Wire |
|---|---|---|---|
| Stripe (spiral) 1000 ft min | 28 AWG to 10 AWG up to 3 stripes | 28 AWG to 10 AWG up to 3 stripes | 28 AWG to 10 AWG up to 3 stripes |
| Twist 1000 ft min | 30 AWG to 10 AWG up to 4 cond. | 30 AWG to 10 AWG up to 4 cond. | 30 AWG to 10 AWG up to 4 cond. |
| Dye Wire 1000 ft min | Up to 10 AWG | - | - |
| Print 1000 ft min | Made to order wheels 22 AWG to 10 AWG | Made to order wheels 22 AWG to 10 AWG | Made to order wheels 22 AWG to 10 AWG |

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