

Section 1.

Hook-up Wire



Table of Contents

PVC Lead Wire

UL 1015/1230 MTW/TEW	3
UL 1028/1283/1284	3
UL 1007/1569	4
UL 1061	4
MTW	5
<HAR> Hook-up Wire	5
EcoWire™ and EcoWire™ Plus	6

Cross Link Lead Wire

UL 1429/1534	7
UL 1430/3317	8
UL 3195/3196/3173	9
UL 3199	9
UL 3265	10
UL 3266	10
UL 1431	11
UL 3321	12
UL 3271/3289	12

Teflon Lead Wire

UL 1199	13
UL 1180	13
UL 1213	14
UL 1330/1332	14

High Temperature Wire

UL 5107/5359	15
UL 5257/ 5180	15
UL 5196	16
UL 5256	16

Silicone Wire

UL 3212/3213/3214	17
UL 3071/3074/3075/3125/3231	17

High Voltage Wire

UL 3239	18
---------------	----

Bus Bar

Tinned Copper	19
Bare Copper	19

Wire Wrap

UL 1422	20
UL 1423	20

Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com



UL 1015/1230/MTW/TEW



Construction: **Conductors:** Solid or stranded, tinned or bare copper. **Insulation:** PVC. **Jacket:** PVC.



Used as internal wiring for appliances and electronic equipment.

Features:

- Heavier insulation for 600V applications
- UL/CSA approved
- Can be striped upon request

Technical Data:

Temperature: 105°C

Rated Voltage: 600V

Color Code: Replace the X
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 1015/1230
CSA Type TEW, AWM I A/B, VW-1

Tinned Copper Part Number	Bare Copper Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1015-26-1-X	1015-26-1-X-BC	26	1/26	.030	.080
1015-26-7-X	1015-26-7-X-BC	26	7/34	.030	.083
1015-24-1-X	1015-24-1-X-BC	24	1/24	.030	.085
1015-24-7-X	1015-24-7-X-BC	24	7/32	.030	.088
1015-22-1-X	1015-22-1-X-BC	22	1/22	.030	.093
1015-22-7-X	1015-22-7-X-BC	22	7/30	.030	.095
1015-20-1-X	1015-20-1-X-BC	20	1/20	.030	.098
1015-20-10-X	1015-20-10-X-BC	20	10/30	.030	.100
1015-18-1-X	1015-18-1-X-BC	18	1/18	.030	.104
1015-18-16-X	1015-18-16-X-BC	18	16/30	.030	.110
1015-16-1-X	1015-16-1-X-BC	16	1/16	.030	.115
1015-16-26-X	1015-16-26-X-BC	16	26/30	.030	.124
1015-14-1-X	1015-14-1-X-BC	14	1/14	.030	.130
1015-14-41-X	1015-14-41-X-BC	14	41/30	.030	.141
1015-12-1-X	1015-12-1-X-BC	12	1/12	.030	.145
1015-12-65-X	1015-12-65-X-BC	12	65/30	.030	.160
1015-10-1-X	1015-10-1-X-BC	10	1/10	.030	.155
1015-10-105-X	1015-10-105-X-BC	10	105/30	.030	.194

UL 1028/1283/1284



Construction: **Conductors:** Solid or stranded tinned copper. **Insulation:** PVC. **Jacket:** PVC.



UL Style 1028, 1283, & 1284 are UL/CSA approved, 300V, 105°C PVC Hook-up wire.

Features:

- 8 AWG - 4/0 AWG
- UL/CSA Approved

Technical Data:

Temperature: 105°C

Rated Voltage: 600V

Color Code: Replace the X
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 1028, 1283, 1284
CSA Type TEW, AWM I A/B, VW-1

Part Number	AWG	Stranding	Nominal Wall (mils)	Nominal Outer Diameter Inches
UL Style 1028				
1028-8-133-X	8	133/29	.045	.252
UL Style 1283				
1283-6-133-X	6	133/27	.060	.324
1283-4-133-X	4	133/25	.060	.387
1283-2-133-X	2	133/23	.060	.452
UL Style 1284				
1284-1-X	1	7x37/25	.080	.521
1284-1/0-X	1/0	7x37/24	.080	.561
1284-2/0-X	2/0	7x37/23	.080	.660
1284-3/0-X	3/0	7x37/22	.080	.666
1284-4/0-X	4/0	7x37/21	.080	.785

PVC Lead Wire

UL 1007/1569



Construction: **Conductors:** Solid or stranded, tinned or bare copper. **Insulation:** PVC. **Jacket:** PVC.



Used for internal wiring of appliances; or where exposed to oil at a temperature not exceeding 60°C or 80°C, whichever is applicable. Tags may indicate 600V Peak - For electronic use only.

Features:

- 28-16 awg
- Solid or stranded

Technical Data:



Temperature:

UL 1007: >-40°C to 80°C
UL 1569: >-40°C to 105°C



Rated Voltage: 300V



Color Code: Replace the X

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 1007/1569
CSA Type TR-64, VW-1

Part Number	AWG	Stranding	Insulation Wall (mils)	Nominal Outer Diameter Inches
1007-28-1-X	28	1/28	.015	.047
1007-28-7-X	28	7/36	.015	.046
1007-26-1-X	26	1/26	.015	.050
1007-26-7-X	26	7/34	.015	.050
1007-24-1-X	24	1/24	.015	.055
1007-24-7-X	24	7/32	.015	.056
1007-22-1-X	22	1/22	.015	.059
1007-22-7-X	22	7/30	.015	.062
1007-20-1-X	20	1/20	.015	.066
1007-20-10-X	20	10/30	.015	.070
1007-18-1-X	18	1/18	.015	.074
1007-18-16-X	18	16/30	.015	.080
1007-16-1-X	16	1/16	.015	.085
1007-16-26-X	16	26/30	.015	.094

UL 1061



Construction: **Conductors:** Solid or stranded tinned or bare copper. **Insulation:** PVC. **Jacket:** PVC.



Used for internal wiring in electronic bookkeeping, accounting, time-recording machines or electronic equipment within a chassis or protected from mechanical injury.

Features:

- 28-16 awg
- Solid or stranded
- Tinned or bare copper

Technical Data:



Temperature: >-10°C to +80°C



Rated Voltage: 300V



Color Code: Replace the X

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

Part Number	AWG	Stranding	Insulation Wall (mils)	Nominal Outer Diameter Inches
1061-28-7-X	28	7/36	.010	.034
1061-26-1-X	26	Solid	.010	.036
1061-26-7-X	26	7/34	.010	.039
1061-24-1-X	24	Solid	.010	.041
1061-24-7-X	24	7/32	.010	.044
1061-22-1-X	22	Solid	.010	.046
1061-22-7-X	22	7/30	.010	.050
1061-20-1-X	20	Solid	.010	.052
1061-20-10-X	20	10/30	.010	.057
1061-18-1-X	18	Solid	.010	.060
1061-18-16-X	18	16/30	.010	.067
1061-16-26-X	16	26/30	.010	.076



MTW

Construction: **Conductors:** Bare or Tinned stranded copper. **Insulation:** PVC.



*PNs are for Tinned Copper – add BC for Bare Copper

Part Number	AWG	Stranding	Vinyl Insulation Inches	Nominal Outer Diameter Inches
2/64" Insulation				
MTW18-16-X	18	16/30	.030	.110
MTW16-26-X	16	26/30	.030	.124
MTW14-41-X	14	41/30	.030	.138
MTW12-65-X	12	65/30	.030	.155
MTW10-105-X	10	105/30	.030	.180
3/64" Insulation				
MTW14-19-X	14	19/0147	.045	.168
MTW12-19-X	12	19/0185	.045	.185
MTW10-19-X	10	19/0234	.045	.214
MTW8-19-X	8	19/0295	.045	.245
4/64" Insulation				
MTW10-19-X	10	19/0234	.060	.237
MTW8-19-X	8	19/0295	.060	.278
MTW6-19-X	6	19/0372	.060	.290

Technical Data:

Temperature Range:
UL: 105°C
MTW: 190°C

Nominal Voltage: 600V

Color Code: Replace the X
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, AWM

<HAR> Hook-up Wire:

H05V-K, UL Style 1007 + 1569, UL/CSA, H07V-K, UL Style 1015 + 1063, UL (MTW)/CSA

Construction: **Conductors:** Solid or stranded tinned or bare copper. **Insulation:** PVC. **Jacket:** PVC.



<HAR>

This hook-up wire has international approvals to satisfy the requirements of both North America and Europe. It passes <HAR> H05V-K, <HAR> H07V-K, UL AWM, UL MTW (16 AWG and larger), CSA TEW and CE.

Features:

- Globally approved
- One inventory approved for shipping to European community
- RoHS compliant

Technical Data:

Temperature Range:
HAR/IEC: -40°C to +70°C
UL/CSA: -40°C to +105°C

Nominal Voltage:

	H05V-K	H07V-K
HAR/IEC	300/500V	450/750V
UL/CSA	300V	600V

Color Code: Replace the X
00-Green/Yellow, 01-Black,
02-Blue, 03-Brown, 04-Red,
05-White, 06-Gray, 07-Violet,
08-Pink, 09-Orange, 10-Yellow**,
11-Green**, 14-Dark Blue

Approvals: HAR & CSA TEW
H05V-K:
UL AWM Style 1007 + 1569
H07V-K
UL AWM Style 1063 MTW Listed,
1015 AWM

Part Number	AWG	Stranding	Nominal Outer Diameter Inches
H05V-K			
41804..	22	.50 mm ²	.087
41805..	20	.75 mm ²	.094
41806..	18	1.00 mm ²	.098
H07V-K			
41604..	16	1.50 mm ²	.122
41605..	14	2.50 mm ²	.146
41606..	12	4.00 mm ²	.173
41607..	10	6.00 mm ²	.193
41608..	8	10.00 mm ²	.268
*41609..	6	16.00 mm ²	.350
41610..	4	25.00 mm ²	.398
41611..	2	35.00 mm ²	.449
*41612..	1	50.00 mm ²	.551
*41613..	2/0	70.00 mm ²	.622
41614..	3/0	95.00 mm ²	.713
41615..	4/0	120.00 mm ²	.764

* In accordance to the HAR standards as X07V-K without "HAR"- printing.

** For these colors no HAR-approval for 1.5 mm² or larger

Hook up Wire



LAPP TANNERHILL

PVC Lead Wire

EcoWire™ and EcoWire™ Plus

Construction: Conductors: Solid, stranded or solid tinned copper.

Insulation: Modified polyphenylene ether.



Alpha Wire's new EcoWire™ is the latest innovation in hook-up wire. A true engineering breakthrough, EcoWire™ combines increased performance with a minimized environmental impact. EcoWire™ derives its advantage from modified polyphenylene ether insulation (mPPE). It is inherently lighter, tougher, and more durable than PVC. The result is UL AWM wire that is smaller than PVC-based counterparts. The non-halogenated insulation contains no heavy metal pigments, allowing it to help manufacturers meet Waste Electrical and Electronic Equipment (WEEE) requirements.

Features:

- Environmentally friendly
- Better dielectric strength
- Low specific gravity
- Durability
- Good temperature range
- Recyclable
- Better performing than PVC
 - Up to 45% smaller diameter
 - Up to 40% lighter weight
 - Superior abrasion resistance



Technical Data:



Temperature:
-40°C to +105°C



Rated Voltage: 600V



Color Code:
White, Black, Red, Green, Yellow, Blue, Brown, Orange, Slate Violet, Yellow/Green



Approvals:
UL AWM 11028
CSA AWM I A/B
VW-1 UL 1581

Part Number	AWG	Stranding	Insulation Wall (mils)	Nominal Outer Diameter Inches
6710	28	7/36	.010	.034
6711	26	7/34	.010	.038
6712	24	7/32	.010	.043
6713	22	7/30	.010	.049
6714	20	10/30	.010	.055
6715	18	16/30	.010	.067
6715S	18	Solid	.010	.059
6716	16	26/30	.011	.081
6717	14	41/30	.011	.096
6717S	14	Solid	.011	.086
6718	12	65/30	.012	.117
6719	10	105/30	.012	.142

EcoWire™ Plus

Part No.	Conductor Size			Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm ²	ISO mm Equiv.	AWG	mm	Inch	mm	Inch	mm
6820	28	0.09	-	7/36	7 x 0.12	0.008	0.20	0.031	0.79
6821	26	0.14	0.13	7/34	7 x 0.16	0.008	0.20	0.035	0.89
6822	24	0.23	0.22	7/32	7 x 0.20	0.008	0.20	0.040	1.02
6823	22	0.35	0.35	7/30	7 x 0.25	0.008	0.20	0.046	1.17
6824	20	0.56	0.5	7/28	7 x 0.32	0.008	0.20	0.054	1.37
6825	18	0.81	0.75	19/0.0092	19 x 0.23	0.008	0.20	0.062	1.57
6826	17	0.96	1	19/30	19 x 0.25	0.008	0.20	0.066	1.68
6827	16	1.23	—	19/29	19 x 0.29	0.010	0.24	0.077	1.96
6828	15	1.53	1.5	19/28	19 x 0.32	0.010	0.24	0.083	2.11
6829	14	1.94	2	19/27	19 x 0.36	0.012	0.30	0.095	2.41
6830	12	3.08	3	19/25	19 x 0.46	0.015	0.38	0.120	3.05
6831	10	4.92	5	19/23	19 x 0.57	0.017	0.43	0.147	3.73



AlphaWire

Cables you trust. Service you deserve.



UL 1429/1534



Construction: **Conductors:** Solid or stranded tinned or bare copper. **Insulation:** XLPVC. **Jacket:** PVC.



This hook-up wire is 150V rated and will not melt in soldering applications. It has excellent mechanical properties and is resistant to fluids.

Features:

- Good high temperature performance
- High mechanical strength
- Excellent for wiring electronic equipment
- 150V rated

Technical Data:



Temperature: 80°C



Rated Voltage:

UL 1429: 150V

UL 1534: No voltage rating



Color Code: Replace the X

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 1429 + 1524 VW-1

CSA AWM, FT 1

Part Number	AWG	Stranding	Insulation Wall Inches	Nominal Outer Diameter Inches
UL 1429				
1429-26-1-X	26	1/24	.011	.038
1429-26-7-X	26	7/ 34	.011	.040
1429-26-19-X	26	19/38	.011	.041
1429-24-1-X	24	1/22	.011	.042
1429-24-7-X	24	7/32	.011	.044
1429-24-19-X	24	19/36	.011	.045
1429-22-1-X	24	1/22	.011	.047
1429-22-7-X	22	7/30	.011	.051
1429-22-19-X	22	19/34	.011	.053
1429-20-1-X	20	1/20	.011	.054
1429-20-7-X	20	7/28	.011	.059
1429-20-19-X	20	19/32	.011	.061
1429-18-1-X	18	1/26	.011	.062
1429-18-7-X	18	7/26	.011	.069
1429-18-19-X	18	19/30	.011	.070
1429-16-19-X	16	19/.0117	.012	.080
UL 1534				
1534-14-19-X	14	19/.0186	.012	.095

Not finding what you are looking for?

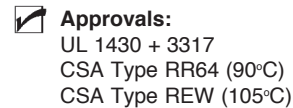
Please contact us at sales@lapptannehill.com, or visit our website at: www.lapptannehill.com



Cross Link Lead Wire

UL 1430 & 3317

Construction: **Conductors:** Solid or stranded tinned or bare copper. **Insulation:** XLPVC.



UL1430					UL3317				
Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches	Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1430-28-7-X	28	7X36	0.049	1.245	3317-14-1-X	14	Solid	0.098	2.489
1430-26-1-X	26	Solid	0.05	1.27	3317-14-19-X	14	19x.0147	0.107	2.718
1430-26-7-X	26	7x34	0.051	1.295	3317-14-41-X	14	41x30	0.109	2.769
1430-26-19-X	26	19x38	0.053	1.345	3317-12-1-X	12	Solid	0.115	2.921
1430-24-1-X	24	Solid	0.054	1.372	3317-12-19-X	12	19x.0185	0.124	3.15
1430-24-7-X	24	7x32	0.056	1.422	3317-12-65-X	12	65x30	0.127	3.226
1430-24-19-X	24	19x36	0.057	1.448	3317-10-37-X	10	37x.0167	0.149	3.785
1430-22-1-X	22	Solid	0.059	1.499	3317-10-105-X	10	105x30	0.156	3.962
1430-22-7-X	22	7x30	0.062	1.575					
1430-22-19-X	22	19x34	0.063	1.6					
1430-20-1-X	20	Solid	0.066	1.676					
1430-20-7-X	20	7x28	0.07	1.778					
1430-20-19-X	20	19x32	0.071	1.803					
1430-20-10-X	20	10x30	0.071	1.803					
1430-18-1-X	18	Solid	0.074	1.88					
1430-18-7-X	18	7x26	0.082	2.083					
1430-18-19-X	18	19x30	0.082	2.083					
1430-18-16-X	18	16x30	0.082	2.086					
1430-16-1-X	16	Solid	0.085	2.159					
1430-16-19-X	16	19x.0117	0.092	2.337					
1430-16-26-X	16	26x30	0.092	2.337					

Please contact your sales representative for detailed information at sales@lapptannehill.com



UL 3195/3196/3173



Construction: **Conductors:** Stranded tinned copper. **Insulation:** XLPE. **Jacket:** PVC.



This XLPE hook-up wire is UL/CSA, 125°C, 600V rated. It is ideal for electronic equipment wiring with higher temperature requirements of up to 125°C. (160°C peak)

Features:

- Higher temperature
- Excellent for baking applications
- Flame retardant
- Resistant to melting

Part Number	AWG	Stranding	Nominal Outer Diameter Inches	Minimum Average Wall Inches
UL 3195				
3195-8-133-X	8	133/29	.262	.047
UL 3196				
3196-6-133-X	6	133/27	.337	.063
UL 3173				
3173-22-7-X	22	7/30	.094	.03
3173-20-10-X	20	10/30	.102	.03
3173-18-16-X	18	16/30	.113	.03
3173-16-26-X	16	26/30	.125	.03
3173-14-41-X	14	41/30	.142	.03
3173-12-65-X	12	65/30	.161	.03
3173-10-105-X	10	105/30	.187	.03

Technical Data:

Temperature: 125°C (160°C peak)

Rated Voltage: 600V

Color Code: Replace the X
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 3195, 3196, 3173
CSA Type I A/B
CL-1251, FT2

UL 3199



Construction: **Conductors:** Stranded copper; tinned or bare. **Insulation:** Chemically cross-linked polyolefin.



For internal wiring of appliances or as ballast leads where exposed to temperatures not exceeding 105°C. (UL). For use as leads of transformers, motors, ballasts, solenoids, etc., where the baking temperature of the windings, coils, etc. to which they are attached will not exceed 150°C (C.S.A.)

Features:

- Small diameter appliance wires
- Tough flame-resistant
- Cross-linked insulation

Part Number	AWG	Stranding	Insulation Wall Inches	Nominal Outer Diameter Inches
3199-22-7-X	22	7x30	1/64	.064
3199-20-10-X	20	10x30	1/64	.074
3199X18-16-X	18	16x30	1/64	.082
3199X16-26-X	16	26x30	1/64	.095

Technical Data:

Temperature: 105°C

Rated Voltage: 300V

Color Code: Replace the X
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 3199
CSA Type CL-1054

Check out our complete inventory of products at www.lapptannehill.com

Cross Link Lead Wire

UL 3265

Construction: **Conductors:** Tin-coated copper. **Insulation:** Flame retardant cross-linked polyolefin. **Jacket:** PVC.



UL 3265 hook-up wire has a highly flame retardant XLPE insulation. It is rated for 150V and 125°C and is ideal for process controls, panel wiring & appliances.

Part Number	AWG	Stranding	Insulation Wall Inches	Nominal Outer Diameter Inches
3265-30-7-X	30	7X38	0.81	0.81
3265-28-7-X	28	7X36	0.89	0.89
3265-26-7-X	26	7X34	0.99	0.99
3265-26-19-X	26	19X38	1.02	1.02
3265-24-7-X	24	7X32	1.12	1.12
3265-24-19-X	24	19X36	1.14	1.14
3265-22-7-X	22	7X30	1.27	1.27
3265-22-19-X	22	19X34	1.32	1.32
3265-20-7-X	20	7X28	1.47	1.47
3265-20-19-X	20	19X32	1.52	1.52
3265-18-7-X	18	7X26	1.73	1.73
3265-18-16-X	18	16X30	1.73	1.73
3265-18-19-X	18	19X30	1.78	1.78
3265-16-19-X	16	19X.0117	1.96	1.96
3265-16-26-X	16	26X30	2.03	2.03

Features:

- Excellent flame protection
- High temperature performance
- Excellent electrical properties
- Flexible copper stranding

Technical Data:

Temperature: 125°C

Rated Voltage: 150V

Color Code: Replace the X
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 3265
CSA Type AWM

UL 3266

Construction: **Conductors:** Tin-coated copper. **Insulation:** Flame retardant cross-linked polyolefin. **Jacket:** PVC.



UL 3266 hook-up wire has a highly flame retardant XLPE insulation and is rated for 300V and 125°C. It is ideal for use as a motor lead, coil lead, panel and appliance wiring.

Part Number	AWG	Stranding	Insulation Wall Inches	Nominal Outer Diameter Inches
3266-26-7-X	26	7X34	0.051	1.29
3266-26-19-X	26	19X38	0.052	1.32
3266-24-7-X	24	7X32	0.056	1.42
3266-24-19-X	24	19X36	0.057	1.45
3266-22-7-X	22	7X30	0.062	1.58
3266-22-19-X	22	19X34	0.064	1.63
3266-20-7-X	20	7X28	0.07	1.78
3266-20-19-X	20	19X32	0.072	1.83
3266-18-7-X	18	7X26	0.08	2.03
3266-18-16-X	18	16X30	0.08	2.03
3266-18-19-X	18	19X30	0.082	2.08
3266-16-19-X	16	19X.0117	0.089	2.26
3266-16-26-X	16	26X30	0.092	2.34
3266-14-19-X	14	19X.0147	0.106	2.69
3266-14-41-X	14	41X30	0.107	2.72
3266-12-19-X	12	19X.0185	0.127	3.23
3266-12-65-X	12	65X30	0.127	3.23
3266-10-37-X	10	37X.0167	0.151	3.84
3266-10-105-X	10	105X30	0.154	3.91

Features:

- Excellent flame protection
- High temperature performance
- Excellent electrical properties
- Flexible copper stranding

Technical Data:

Temperature: 125°C

Rated Voltage: 300V

Color Code: Replace the X
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 3266
CSA Type CL 1252
CSA Type AWM



UL 1431



Construction: **Conductors:** Tin-coated copper. **Insulation:** XL PVC.



UL 1431 hook-up wire is a XLPVC 600V rated wire, ideal for panel and appliance wiring for higher voltages.



Features:

- Higher voltage application
- High mechanical resistance
- Flame retardant
- Fluid resistant



Technical Data:

Temperature: 105°C

Rated Voltage: 600V

Color Code: Replace the X
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 1431
CSA Type RR 32 (XLPE)
CSA Type REW (XLPE)

Part Number	AWG	Stranding	Insulation Wall Inches	Nominal Outer Diameter Inches
1431-24-7-X	24	7x32	0.088	2.235
1431-24-19-X	24	19x36	0.088	2.235
1431-22-1-X	22	Solid	0.089	2.261
1431-22-7-X	22	7x30	0.092	2.337
1431-22-19-X	22	19x34	0.095	2.413
1431-20-1-X	20	Solid	0.096	2.438
1431-20-7-X	20	7x28	0.102	2.591
1431-20-19-X	20	19x32	0.103	2.616
1431-20-10-X	20	10x30	0.105	2.667
1431-18-1-X	18	Solid	0.104	2.642
1431-18-7-X	18	7x26	0.112	2.845
1431-18-19-X	18	19x30	0.112	2.845
1431-18-16-X	18	16x30	0.111	2.819
1431-16-1-X	16	Solid	0.115	2.921
1431-16-19-X	16	19x.0117	0.122	3.099
1431-16-26-X	16	26x30	0.122	3.099
1431-14-1-X	14	Solid	0.128	3.251
1431-14-19-X	14	19x.0147	0.136	3.454
1431-14-41-X	14	41x30	0.142	3.607
1431-12-1-X	12	Solid	0.145	3.683
1431-12-19-X	12	19X.0185	0.154	3.912
1431-12-65-X	12	65X30	0.156	3.962
1431-10-37-X	10	37X.0167	0.178	4.521
1431-10-105-X	10	105X30	0.188	4.775
1431-8-133-X	8	133X.011	0.261	6.629
1431-8-168-X	8	168X30	0.267	6.782
1431-6-133-X	6	133X.0141	0.342	8.687
1431-4-133-X	4	133X.0177	0.392	9.957
1431-2-665-X	2	665X30	0.456	11.582



Cross Link Lead Wire

UL 3321



Construction: **Conductors:** Tin-coated stranded copper. **Insulation:** XLPE.



UL 3321 hook-up wire has a high temperature and voltage rating of 150°C and 600V. It is ideal for appliance wiring where higher temperature and voltage is required like ranges, heaters, and dryers

Features:

- Excellent flame resistance
- Great for higher temperature appliance wiring
- 600V rated
- Resistant to melting

Technical Data:

Temperature: 150°C

Rated Voltage: 600V

Color Code: Replace the X
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 3321, Non VW-1
CSA Type CL 1503
CSA Type AWM I A/B, FT-4

Part Number	AWG	Stranding	Nominal Outer Diameter Inches	Min. Avg. Wall Inches
3321-22-7-X	22	7	.092	.030
3321-20-10-X	20	10	.102	.030
3321-18-16-X	18	16	.113	.030
3321-16-26-X	16	26	.125	.030
3321-14-41-X	14	41	.142	.030
3321-12-65-X	12	65	.160	.030
3321-10-105-X	10	105	.185	.030
3321-8-133-X	8	133	.262	.045
3321-6-133-X	6	133	.300	.045

UL 3271/ 3289



Construction: **Conductors:** Tin or bare copper. **Insulation:** XLPE.



UL 3271/UL3289 is suitable for motor lead, transformer, panel and appliance wiring.

Features:

- Flame retardant
- Higher voltage applications
- Very good mechanical properties
- High Temperature

Technical Data:

Temperature:
125°C - UL3271
150°C - UL3289

Rated Voltage: 600V

Color Code: Replace the X
0-Black, 1-Brown, 2-Red, 3-Orange,
4-Yellow, 5-Green, 6-Blue, 7-Violet,
8-Gray, 9-White, 54-Green/Yellow

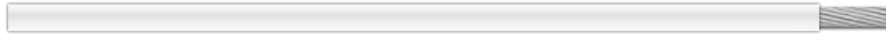
Approvals:
UL 3271 or UL 3289
CSA Type AWM
Horizontal Flame per UL 1581
UL 758

Part Number	AWG	Stranding	Insulation Wall Inches	Nominal Outer Diameter Inches
3271-22-7-X	22	7X30	0.027	0.102
3271-20-10-X	20	10X30	0.027	0.108
3271-18-16-X	18	16X30	0.027	0.118
3271-16-26-X	16	26X30	0.027	0.13
3271-14-41-X	14	41X30	0.027	0.145
3271-12-65-X	12	65X30	0.027	0.163
3271-10-65-X	10	65X28	0.027	0.189
3271-8-133-X	8	133X29	0.04	0.272
3271-6-133-X	6	133X27	0.04	0.318
3271-4-133-X	4	133X25	0.04	0.37
3271-2-266-X	2	266X26	0.04	0.441
3271-1-817-X	1	817X30	0.05	0.516
3271-1/0-X	1/0	1045X30	0.05	0.559
3271-2/0-X	2/0	1330X30	0.05	0.619
3271-3/0-X	3/0	1672X30	0.05	0.677
3271-4/0-X	4/0	2109X39	0.05	0.731

*Please specify when ordering
UL3271 or UL3289
material can be printed as
dual rating @ 150°C



UL 1199



Construction: Conductors: Solid or stranded silver plated annealed copper. **Insulation:** Polytetrafluoroethylene (PTFE).

For use in internal wiring of electronic equipment and appliances. TFE lead wires have a low coefficient of friction for easy handling. TFE insulation also resists hot soldering irons, is self-extinguishing, non-flammable, has excellent chemical resistance and is suitable for immersion in gasoline.

Features:

- Excellent high temperature and flame resistant
- Very oil resistant
- Chemical resistant
- Low friction for easy installation

Technical Data:

Temperature: 200°C

Rated Voltage: 600V

Color Code: Replace the X
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 1199
CSA Class I A/B FT1



Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches	Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1199-30-1-X	30	1	20	.050	1199-22-7-X	22	7	20	.070
1199-30-7-X	30	7	20	.052	1199-22-19-X	22	19	20	.070
1199-28-1-X	28	1	20	.053	1199-20-1-X	20	1	20	.072
1199-28-7-X	28	7	20	.055	1199-20-7-X	20	7	20	.078
1199-28-19-X	28	19	20	.055	1199-20-19-X	20	19	20	.078
1199-26-1-X	26	1	20	.056	1199-18-1-X	18	1	20	.080
1199-26-7-X	26	7	20	.059	1199-18-7-X	18	7	20	.088
1199-26-19-X	26	19	20	.059	1199-18-19-X	18	19	20	.087
1199-24-1-X	24	1	20	.060	1199-16-19-X	16	19	20	.096
1199-24-7-X	24	7	20	.064	1199-14-19-X	14	19	20	.109
1199-24-19-X	24	19	20	.063	1199-12-19-X	12	19	20	.128
1199-22-1-X	22	1	20	.065	1199-10-37-X	10	37	20	.154

UL 1180



Construction: Conductors: Solid or stranded silver plated annealed copper. **Insulation:** Polytetrafluoroethylene (PTFE).

For use in internal wiring of electronic equipment and appliances. TFE lead wires have a low co-efficient of friction for easy handling. TFE insulation also resists hot soldering irons, is self-extinguishing, non-flammable, has excellent chemical resistance and is suitable for immersion in gasoline.

Features:

- Excellent high temperature & flame resistant
- Very oil resistant
- Chemical resistant
- Low friction for easy installation

Technical Data:

Temperature: 200°C

Rated Voltage: 300V

Color Code: Replace the X
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
CSA Class I A/B FT1



Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches	Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1180-28-1-X	28	1	13	.039	1180-22-19-X	22	19	13	.056
1180-28-7-X	28	7	13	.041	1180-20-1-X	20	1	13	.048
1180-28-19-X	28	19	13	.041	1180-20-7-X	20	7	13	.064
1180-26-1-X	26	1	13	.042	1180-20-19-X	20	19	13	.064
1180-26-7-X	26	7	13	.045	1180-18-1-X	18	1	13	.066
1180-26-19-X	26	19	13	.045	1180-18-7-X	18	7	13	.074
1180-24-1-X	24	1	13	.046	1180-18-19-X	18	19	13	.073
1180-24-7-X	24	7	13	.050	1180-16-19-X	16	19	13	.082
1180-24-19-X	24	19	13	.049	1180-14-19-X	14	19	13	.195
1180-22-1-X	22	1	13	.049	1180-12-19-X	12	19	13	.114
1180-22-7-X	22	7	13	.056	1180-10-37-X	10	37	13	.140

Teflon Lead Wire

UL 1213

Construction: Conductors: Solid or stranded silver plated annealed copper. **Insulation:** Polytetrafluoroethylene (PTFE).

UL 1213 PTFE insulation is excellent in oils, gasoline, and chemicals. The wire has a low co-efficient of friction for easy installation and is self extinguishing and non-flammable.



Features:

- Excellent high temperature & flame resistant
- Very oil resistant
- Chemical resistant
- Low friction for easy installation

Technical Data:

Temperature: 105°C

Rated Voltage: 150 CSA

Color Code: Replace the X
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 1213
CSA Class I A/B FT1

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1213-30-1-X	30	1	10	.030
1213-30-7-X	30	7	10	.032
1213-28-1-X	28	1	10	.033
1213-28-7-X	28	7	10	.035
1213-28-19-X	28	19	10	.035
1213-26-1-X	26	1	10	.036
1213-26-7-X	26	7	10	.039
1213-26-19-X	26	19	10	.039
1213-24-1-X	24	1	10	.040
1213-24-7-X	24	7	10	.044
1213-24-19-X	24	19	10	.043
1213-22-1-X	22	1	10	.045
1213-22-7-X	22	7	10	.050
1213-22-19-X	22	19	10	.050
1213-20-1-X	20	1	10	.052
1213-20-7-X	20	7	10	.058
1213-20-19-X	20	19	10	.058

UL 1330/1332

Construction: Conductors: Stranded tin or nickel plated copper conductor. **Insulation:** Extruded Fluorinated Ethylene Propylene (FEP).

For use in internal wiring of electronics and appliances. FED is affected by weathering ozone, resists hot soldering irons, is self extinguishing and is non-flammable. Is suitable for immersion in gas.

Features:

- Excellent high temperature & flame resistant
- Very oil resistant
- Chemical resistant
- Low friction for easy installation

Technical Data:

Temperature:
UL: 200°C, CSA:180°C

Rated Voltage: 300V/600V

Approvals:
UL Style 1332/CSA 150°C AWM I A/B FT1
UL Style 1330/CSA 180°C AWM I A/B FT1

Color Code: Replace the X
0-Black, 1-Brown, 2-Red, 3-Orange,
4-Yellow, 5-Green, 6-Blue, 7-Violet,
8-Gray, 9-White, 54-Green/Yellow



UL1332 - 300V					UL1330 - 600V				
Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches	Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1332-24-7-X	24	7	20	.054	1330-24-7-X	24	7	20	.064
1332-22-7-X	22	7	20	.059	1330-22-7-X	22	7	20	.069
1332-20-7-X	20	7	20	.068	1330-20-7-X	20	7	20	.076
1332-18-7-X	18	7	20	.076	1330-18-7-X	14	7	20	.086
1332-16-7-X	16	7	20	.088	1330-16-7-X	18	7	20	.098
1332-14-7-X	14	7	20	.101	1330-14-7-X	16	7	20	.111
1332-12-19-X	12	19	20	.118	1330-12-19-X	14	19	20	.128
1332-10-19-X	10	19	20	.143	1330-10-19-X	12	19	20	.153
					1330-8-19-X	8	19	30	.201
					1330-6-19-X	6	19	30	.241
					1330-4-133-X	4	133	30	.321
					1330-2-133-X	2	133	30	.395
					1330-1-259-X	1	259	30	.462
					1330-1/0-259-X	1/0	259	30	.500
					1330-2/0-259-X	2/0	259	45	.555
					1330-3/0-259-X	3/0	259	45	.605
					1330-4/0-259-X	4/0	259	45	.676

UL1331 & 1333 available upon request



UL 5107/5359



Construction: Conductors: Stranded nickel coated copper (27%). **Insulation:** Mica tape, Braided Fiberglass with temperature finish.

Used for internal wiring of commercial, industrial, and household ovens as well as cooking equipment, suited for severe hot locations in industrial processing.

Features:

- Excellent high temperature resistant
- Braided protection



Technical Data:

Temperature: 450°C

Rated Voltage: 600V

Color Code: Natural (tan)

Approvals:
UL 5107
UL 5359
CSA AWM I A/B FT1



UL5107

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
5107-22-7-X	22	7	6	.095
5107-20-10-X	20	10	8	.101
5107-18-16-X	18	16	10	.110
5107-16-26-X	16	26	14	.122
5107-14-41-X	14	41	19	.137
5107-12-65-X	12	65	28	.153
5107-10-105-X	10	105	46	.210
5107-8-133-X	8	133	70	.248
5107-6-133-X	6	133	103	.287
5107-4-133-X	4	133	163	.347
5107-2-133-X	2	133	266	.460

UL5359

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
5359-22-7-X	22	7	5	.077
5359-20-10-X	20	10	6	.083
5359-18-16-X	18	16	8	.092
5359-16-26-X	16	26	12	.104
5359-14-41-X	14	41	17	.119
5359-12-65-X	12	65	26	.135
5359-10-105-X	10	105	42	.190
5359-8-133-X	8	133	67	.233
5359-6-133-X	6	133	99	.272
5359-4-133-X	4	133	158	.332
5359-2-133-X	2	133	260	.446

UL 5257/5180



Construction: Conductors: Stranded nickel plated copper.

Insulation: PTFE tape with glass serving; Braided Fiberglass with high temperature finish

Used for internal wiring of commercial, industrial, and household ovens as well as cooking equipment, suited for severe hot locations in industrial processing.

Features:

- Excellent high temperature resistant
- Braided protection



Technical Data:

Temperature: 250°C

Rated Voltage: 300V

Color Code: Natural (tan)

Approvals:
UL 5257
UL5180
CSA AWM I A/B FT1



UL5257

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
5257-24-7-X	24	7	4	.063
5257-22-7-X	22	7	5	.068
5257-20-10-X	20	10	6	.075
5257-18-19-X	18	19	8	.083
5257-16-26-X	16	26	13	.104
5257-14-41-X	14	41	19	.119
5257-12-65-X	12	65	28	.140
5257-10-105-X	10	105	42	.177

UL5180

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
5180-24-7-X	24	7	4	.075
5180-22-7-X	22	7	5	.080
5180-20-10-X	20	10	7	.089
5180-18-19-X	18	19	9	.095
5180-16-26-X	16	26	14	.116
5180-14-41-X	14	41	20	.131
5180-12-65-X	12	65	30	.152
5180-10-105-X	10	105	45	.189

High Temperature Wire

UL 5196



Construction: Conductors: Solid or stranded silver plated annealed copper.

Insulation: PTFE tapes covered with fiberglass yarns. **Jacket:** Fiberglass braid with high temperature saturant.

Used for internal wiring of commercial, industrial and household ovens as well as cooking equipment. Suited for severe hot spot locations in industrial processing.



Part Number	AWG	Stranding	Insulation Thickness (mils)	Fiberglass Braid	Nominal Outer Diameter Inches
5196-24-X	24	7/.0080	.015	.005	.085
5196-22-X	22	7/.0100	.015	.005	.090
5196-20-X	20	10/.010	.015	.005	.100
5196-18-X	18	16/.0100	.015	.005	.110
5196-16-X	16	26/.0100	.015	.005	.120
5196-14-X	14	41/.0100	.015	.005	.135
5196-12-X	12	65/.0100	.015	.005	.155
5196-10-X	10	105/.0100	.015	.005	.180
5196-8-X	8	133/.011	.015	.008	.240
5196-6-X	6	133/.0142	.020	.017	.320
5196-4-X	4	133/.0177	.020	.017	.375
5196-2-X	2	133/.0233	.020	.017	.445
5196-1-X	1	259/.0177	.020	.017	.485
5196-1/0-X	1/0	259/.0202	.020	.017	.535
5196-2/0-X	2/0	259/.0229	.020	.017	.585
5196-3/0-X	3/0	259/.0255	.020	.017	.645
5196-4/0-X	4/0	259/.0286	.020	.017	.710

Features:

- Excellent high temperature performance
- Fiberglass braid for extra protection

Technical Data:

Temperature: 250°C

Rated Voltage: 600V

Color: Tan

Approvals:
UL Type TGGT 5196
CSA:AWM Class 1 Group A/B

UL 5256



Construction: Conductors: Stranded nickel plated copper.

Insulation: PTFE tape with glass serving, Braided Fiberglass with high temperature finish.

Internal wiring of appliances and domestic, commercial and industrial ovens. Also used in cooking, curing and drying equipment. Ideal for high temperature, harsh environments found in heaters, furnaces, ovens and kilns.

Features:

- High temperature resistant
- Braided protection



Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
5256-24-X	24	7/32	.015	.069
5256-22-X	22	7/30	.015	.074
5256-20-X	20	10/30	.015	.081
5256-18-X	18	16/30	.015	.090
5256-16-X	16	26/30	.018	.108
5256-14-X	14	41/30	.018	.123
5256-12-X	12	65/30	.018	.144
5256-10-X	10	105/30	.018	.181
5256-8-X	8	133/29	.018	.213
5256-6-X	6	133/27	.023	.274
5256-4-X	4	133/25	.023	.327
5256-2-X	2	133/23	.023	.411

Technical Data:

Temperature: 250°C

Rated Voltage: 600V

Color Code: Natural Tan
Available in color or stripes

Approvals:
UL 5256
CSA AWM I A/B FT1

UL 3212/3213/3214



Construction: Conductors: Stranded tinned copper. **Insulation:** Silicone.

Can be use for leads to motors, transformers, appliances, electric or other electrical circuits where a flexible conductor is required to operate under high temperature conditions and where moisture may be present.

Features:

- High temperature resistant
- Flexible silicone rubber insulation

Technical Data:

Temperature: 150°C

Rated Voltage: 600V

Approvals:
UL 3212/3213/3214



Color Code: Replace the X
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 Inches	Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
3212-18-16-X	18	16/30	.045	.135	3214-1/0-259-X	1/0	259/24	.080	.584
3212-16-26-X	16	26/30	.045	.148	3214-2/0-259-X	2/0	259/23	.080	.625
3212-14-41-X	14	41/30	.045	.164	3214-3/0-259-X	3/0	259/22	.080	.675
3212-12-65-X	12	65/30	.045	.180	3214-4/0-259-X	4/0	259/21	.080	.746
3212-10-105-X	10	105/30	.045	.205					
3213-8-133-X	8	133/29	.060	.285					
3213-6-133-X	6	133/27	.060	.326					
3213-4-133-X	4	133/25	.060	.381					
3213-2-259-X	2	259/26	.060	.449					
3214-1-259-X	1	259/25	.080	.532					

UL 3071/3074/3075/3125/3231



Construction: Conductors: Stranded tinned copper. **Insulation:** Silicone.

Can be use for leads to motors, transformers, appliances, electric or other electrical circuits where a flexible conductor is required to operate under high temperature conditions and where moisture may be present.

Features:

- High temperature resistant
- Flexible silicone rubber insulation

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
3071-18-7-X	18	7/26	.030	.111
3071-16-7-X	16	7/24	.030	.122
3071-14-7-X	14	7/22	.030	.142
3074-12-19-X	12	19/25	.030	.165
3075-10-19-X	10	19/23	.045	.217
3125-8-54-X	8	54/25	.060	.301
3125-6-84-X	6	84/25	.060	.323
3125-4-133-X	4	133/25	.060	.406
3125-2-259-X	2	259/26	.060	.474
3231-1-259-X	1	259/25	.080	.557
3231-1/0-259-X	1/0	259/24	.080	.609
3231-2/0-259-X	2/0	259/23	.080	.685
3231-3/0-259-X	3/0	259/22	.080	.735
3231-4/0-259-X	4/0	259/21	.080	.808

**Technical Data:**

Temperature: 200°C

Rated Voltage: 600V



Color Code: Replace the X
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 3213

High Voltage Wire

UL 3239



Construction: Conductors: Stranded tinned plated copper. **Insulation:** Extruded silicone rubber.



UL 3239 internal wiring of electrical equipment and appliances where totally enclosed.
For use in TV receivers, stoves, heaters, furnaces, signs, dryers, lighting fixtures, and high temperature electronic devices.

Features:

- Large voltage range
- Up to 50 kv
- Flexible silicone rubber jacket

Technical Data:

Temperature: 150°C

Rated Voltage: 600V

Color Code: Replace the X
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 3239
CSA: TV

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches	Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
10kV: UL					30kV: UL & CSA				
3239-10-22-X	22	7/30	40	.110	3239-30-24-X	24	7/32	75	.180
3239-10-20-X	20	7/28	40	.118	3239-30-22-X	22	7/30	75	.188
3239-10-18-X	18	16/30	40	.125	3239-30-20-X	20	7/28	75	.198
3239-10-16-X	16	26/30	40	.138	3239-30-18-X	18	16/30	75	.208
3239-10-14-X	14	41/30	40	.152	3239-30-16-X	16	26/30	75	.222
3239-10-12-X	12	65/30	40	.170	3239-30-14-X	14	41/30	75	.241
3239-10-10-X	10	105/30	40	.195	3239-30-12-X	12	65/30	75	.265
15kV: UL & CSA					3239-30-10-X	10	105/30	75	.265
3239-15-22-X	22	7/30	45	.120	40kV: UL				
3239-15-20-X	20	7/28	45	.128	3239-40-24-X	24	7/32	97	.224
3239-15-18-X	18	16/30	45	.135	3239-40-22-X	22	7/30	97	.232
3239-15-16-X	16	26/30	45	.148	3239-40-20-X	20	7/28	97	.239
3239-15-14-X	14	41/30	45	.162	3239-40-18-X	18	16/30	97	.252
3239-15-12-X	12	65/30	45	.180	3239-40-16-X	16	26/30	97	.266
3239-15-10-X	10	105/30	45	.205	3239-40-14-X	14	41/30	97	.285
20kV: UL & CSA					3239-40-12-X	12	65/30	97	.309
3239-20-24-X	24	7/32	50	.124	3239-40-10-X	10	105/30	97	.309
3239-20-22-X	22	7/30	50	.130	40kV: UL & CSA				
3239-20-20-X	20	7/28	50	.138	3239-40C-24-X	24	7/32	122	.274
3239-20-18-X	18	16/30	50	.145	3239-40C-22-X	22	7/30	122	.282
3239-20-16-X	16	26/30	50	.158	3239-40C-20-X	20	7/28	122	.289
3239-20-14-X	14	41/30	50	.172	3239-40C-18-X	18	16/30	122	.302
3239-20-12-X	12	65/30	50	.190	3239-40C-16-X	16	26/30	122	.316
3239-20-10-X	10	105/30	50	.215	3239-40C-14-X	14	41/30	122	.335
25kV: UL					3239-40C-12-X	12	65/30	122	.359
3239-25-24-X	24	7/32	62	.148	3239-40C-10-X	10	105/30	122	.304
3239-25-22-X	22	7/30	62	.154	3239-50-24-X	24	7/32	140	.310
3239-25-20-X	20	7/28	62	.162	3239-50-22-X	22	7/30	140	.318
3239-25-18-X	18	16/30	62	.169	3239-50-20-X	20	7/28	140	.325
3239-25-16-X	16	26/30	62	.182	3239-50-18-X	18	16/30	140	.338
3239-25-14-X	14	41/30	62	.196	3239-50-16-X	16	26/30	140	.352
3239-25-12-X	12	65/30	62	.215	3239-50-14-X	14	41/30	140	.371
3239-25-10-X	10	105/30	62	.239	3239-50-12-X	12	65/30	140	.395
					3239-50-10-X	10	105/30	140	.395

Bus Bar Wire - Tinned or Bare



Construction: **Conductors:** Annealed Tinned Copper. **Insulation:** Electrolytic Tough Pitch copper feed stock.



Use in networks which use a common backbone to connect all devices. Widely used in various areas of industry for the communication of information with automation systems and equipment. Also used in the areas of control and automation.

Features:

- 100% Electrical Conductivity (IACS).
- Flexible, easily shaped and contoured into place.
- Easily welded and soldered.

Technical Data:



Temperature:



Rated Voltage:



Color Code: Replace the X
0-Black, 1-Brown, 2-Red,
3-Orange, 4-Yellow, 5-Green,
6-Blue, 7-Violet, 8-Gray, 9-White,
54-Green/Yellow



Approvals:
CID AA-59551 Type S
ASTM B33

Part Number	AWG	Nominal Outer Diameter Inches	Cross Sectional (mils)	Resistance @ 20°C Nom Wire	Part Number	AWG	Nominal Outer Diameter Inches	Cross Sectional (mils)	Resistance @ 20°C Nom Wire
BW-44-X	44	0.0020	4.00	0.36	BW-22-X	22	0.0253	640	59.35
BW-42-X	42	0.0025	6.25	0.56	BW-21-X	21	0.0285	812	75.30
BW-41-X	41	0.0028	7.84	0.70	BW-20-X	20	0.0320	1024	94.97
BW-40-X	40	0.0031	9.61	0.86	BW-19-X	19	0.0359	1289	119.5
BW-39-X	39	0.0035	12.27	1.10	BW-18-X	18	0.0403	1624	150.6
BW-38-X	38	0.0040	16.00	1.44	BW-17-X	17	0.0453	2052	190.3
BW-37-X	37	0.0045	20.25	1.82	BW-16-X	16	0.0508	2581	239.3
BW-36-X	36	0.0050	25.00	2.25	BW-15-X	15	0.0571	3260	302.2
BW-35-X	35	0.0056	31.36	2.82	BW-14-X	14	0.0641	4109	381.0
BW-34-X	34	0.0063	39.69	3.57	BW-13-X	13	0.0720	5184	480.8
BW-33-X	33	0.0071	50.41	4.53	BW-12-X	12	0.0808	6529	605.3
BW-32-X	32	0.0080	64.00	5.75	BW-11-X	11	0.0907	8226	762.8
BW-31-X	31	0.0089	79.21	7.11	BW-10-X	10	0.1019	10383	962.5
BW-30-X	30	0.0100	100	8.99	BW-9-X	9	0.1144	13087	1226
BW-29-X	29	0.0113	128	11.59	BW-8-X	8	0.1285	16512	1547
BW-28-X	28	0.0126	159	14.41	BW-7-X	7	0.1443	20822	1951
BW-27-X	27	0.0142	202	18.30	BW-6-X	6	0.1620	26244	2459
BW-26-X	26	0.0159	253	22.95	BW-5-X	5	0.1819	33088	3100
BW-25-X	25	0.0179	320	29.09	BW-4-X	4	0.2043	41738	3911
BW-24-X	24	0.0201	404	37.45	BW-3-X	3	0.2294	52624	4931
BW-23-X	23	0.0226	511	47.37	BW-2-X	2	0.2576	66358	6215

Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com

UL 1422



Construction: Conductors: Silver plated copper. **Insulation:** Kynar.



Use to make solderless connections of wires to terminals.



Features:

- High temperature resistant
- Superior mechanical properties
- Economical price

Technical Data:



Temperature: 105°C



Rated Voltage: No Voltage Rating



Color Code: Replace the X
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 1422

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1422-30-X	30	Solid	5	.021
1422-28-X	28	Solid	5	.024
1422-26-X	26	Solid	5	.027
1422-24-X	24	Solid	5	.031
1422-22-X	22	Solid	5	.036

UL 1423



Construction: Conductors: Silver plated copper. **Insulation:** Kynar.



Use to make solderless connections of wires to terminals.



Features:

- High temperature resistant
- Superior mechanical properties
- Economical price

Technical Data:



Temperature: 105°C



Rated Voltage:



Color Code: Replace the X
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 1422

Part Number	AWG	Stranding	Insulation Thickness (mils)	Nominal Outer Diameter Inches
1423-30-X	30	Solid	4	.0195
1423-28-X	28	Solid	4	.0230
1423-26-X	26	Solid	4	.0260
1423-24-X	24	Solid	4	.0300
1423-22-X	22	Solid	4	.0350