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# Hook-Up Wire



# Hook-Up Wire



The broad range of hook-up wire from Alpha means you will find the product exactly suited to your application—whether it's as straightforward as a control cabinet in a protected environment or as specialized as a machine tool on the factory floor, a high-temperature oven, or off-road construction equipment.

Our hook-up wire is available in a variety of insulations to meet your needs for temperature, ability to withstand wear and abrasion, electrical performance, or resistance to oil, solvents, and chemicals.

- **Stranded and solid copper conductors, bare or tinned, with other platings available for special application needs**
- **Broad range of insulations**
- **Color-coded insulation for easy circuit identification**
- **UL, CSA, and Mil-spec compliance**
- **Convenient put-ups as short as 100 feet**
- **Excellent uniformity and low-fray design for easy handling, stripping, and termination**

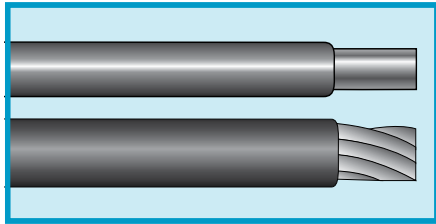
## Choice of Insulations to Meet Temperature Range and Mechanical and Environmental Requirements

Insulation	Material	Temperature Range	Features
PVC	Polyvinyl chloride	-55°C to +105°C	General-purpose insulation Good abrasion resistance Excellent flame resistance
XL-PVC	Cross-linked PVC	-55°C to +105°C	Better abrasion and cut-through resistance than standard PVC Improved temperature and solder iron resistance over standard PVC Used in high-density wiring
mPPE	Modified polyphenylene ether	-40°C to +105°C	Excellent recyclability Excellent abrasion and cut-through resistance Superior dielectric properties for thinner walls than PVC—allows wires 45% smaller in diameter and 40% light in weight
PTFE	Polytetrafluoroethylene	-55°C to +200°C	High temperature Chemically inert: excellent chemical and solvent resistance Excellent electrical properties
XLPE	Cross-linked polyethylene	-55°C to +125°C	Higher temperature rating than PVC
Silicone	Silicone	-40°C to +150°C	High-voltage material Excellent flexibility Excellent dielectric strength and resistance to radiation, corona, and ozone
PDVF	Polyvinylidene fluoride	-40°C to +125°C	Widely used in wire wrap applications
ETFE	Ethylene tetrafluoroethylene	-70°C to +150°C	
TGGT	Teflon glass glass Teflon	+250°C	High-temperature applications Chemically inert: excellent chemical and solvent resistance Moisture resistant Withstands mechanical abuse and repeated flexing
MG	Mica glass	+450°C	High-temperature applications, such as heat-treating furnaces, kilns, and food service equipment Excellent thermal stability

Voltage	Insulation	Wire Range (AWG)		Approvals		Temperature Range	
		Stranded	Solid	UL	CSA		
<b>UL/CSA</b>							
150	XL-PVC	26 - 16	—	AWM I A/B FT1		-55°C to +105°C	
				AWM 1429		-55°C to +80°C	
	XLPE	22 - 18	—	AWM 3265	I A/B FT1	-55°C to +125°C	
300	PVC	30 - 16	24 - 16	AWM 1569		-40°C to +105°C	
				AWM 1007		-40°C to +80°C	
			TR-64		-40°C to +90°C		
	SR-PVC	30 - 16	—	AWM 1061	I A/B FT1	-10°C to +80°C	
	XL-PVC	26 - 16	—	AWM 1430	REW XL-PVC	-55°C to +105°C	
	XLPE	22 - 18	—	AWM 3266	CL 1252 XLPE	-55°C to +125°C	
	XLPE	22 - 16	—	AWM 3199	CL1054	-55°C to +125°C	
	PTFE	24 - 8	—	AWM 1180		-60°C to +200°C	
600	PVC	24 - 10	26 - 10	AWM 1015, 1230 MTW, THW, TW		TEW-105	-20°C to +105°C
		8 - 4/0	—	AWM 1242, 1284			-20°C to +105°C
	mPPE	28 - 10	18 - 14	AWM 11028	I A/B FT-1	-40°C to +105°C	
	XLPE	18 - 10	—	AWM 3271	CL 1251 XLPE	-55°C to +125°C	
	XLPE	20 - 2/0	—	AWM 3173, 3195, 3196, 3300 SIS Rated			-55°C to +125°C
	ETFE	24 - 4	—	SAE AS22759/16			-55°C to +150°C
	PTFE	26 - 8	—	SAE AS22759/11			-55°C to +200°C
	Silicone	22 - 4/0	—	AWM 3212, 3213, 3214	AWM I A/B	-40°C to +150°C	
10,000+	Silicone	22 - 2	—	AWM 3239		-40°C to +150°C	
<b>Military</b>							
250	PTFE	32 - 22	30 - 26	MIL-DTL-16878/6 (Type ET)		-60°C to +200°C	
600	XL-PVC	26 - 16	—	MIL-DTL-16878/1 (Type B)		-55°C to +105°C	
	PVC	32 - 14	—	MIL-DTL-16878/1 (Type B)		-55°C to +105°C	
	PVC	14 - 8	—	MIL-W-76 Type HW		-20°C to +80°C	
	PTFE	30 - 10	26 - 18	MIL-DTL-16878/4 (Type E)		-60°C to +200°C	
1000	PVC	24 - 12	24 - 18	MIL-DTL-16878/2 (Type C)		-40°C to +80°C	
	XLPE	22 - 18	—	MIL-DTL-16878/2 (Type C)		-55°C to +105°C	
	PTFE	24 - 8	—	MIL-DTL-16878/5 (Type EE)		-60°C to +200°C	
3000	XLPE	18 - 10	—	MIL-DTL-16878/1 (Type D)		-55°C to +105°C	
<b>Solar</b>							
1000/2000	XLPE/PVC	14 - 2	—	UL 4703 PV Wire	RW-90	-40°C to +90°C	
600/1000	LSZH/LSZH	14 - 2	—	UL 4703 PV Wire TUV 2 PFG 1169	—	-40°C to +90°C	
<b>Wire Wrap</b>							
	PVDF	—	30 - 24	AWM 1422, 1423		-40°C to +125°C	
	ETFE	—	30 - 24	AWM 1516, 1523		-70°C to +150°C	
<b>Ribbon Cable: 5 to 30 Conductors</b>							
150/300	PVC	26 - 22	—	AWM 2713, 2555		-55°C to +80°C	
600/1000	PVC	26 - 22	—	MIL-DTL-16878/1 and /2 (Types B & C)		-55°C to +105°C	

# Hook-Up Wire

## 300 V, PVC



**UL AWM 1007, 1581, 1569  
VW-1  
CSA AWM I A/B FT1  
CSA TR-64 FT1**

### Operating Temperature

- -40°C to +105°C (AWM 1569, CSA AWM)
- -40°C to +90°C (CSA TR-64)
- -40°C to +80°C (AWM 1007, 1581)

### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>3047</b>	30	0.06	7/38	7 x 0.10	0.016	0.41	0.044	1.12	Z1, 1 - 10
<b>3048</b>	28	0.09	7/36	7 x 0.13	0.016	0.41	0.047	1.19	Z1, 1 - 10
<b>3049</b>	26	0.14	7/34	7 x 0.16	0.016	0.41	0.051	1.30	Z1, 1 - 10
<b>3050/1</b>	24	0.20	Solid	1 x 0.51	0.016	0.41	0.052	1.32	Z1, 1 - 10
<b>3050</b>	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	Z1, 1 - 19, 28, 30
<b>892407T<sup>†</sup></b>	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	Z2, 0 - 9
<b>892419<sup>†</sup></b>	24	0.24	19/36	19 x 0.13	0.016	0.41	0.057	1.45	Z2, 0 - 9
<b>3051/1</b>	22	0.32	Solid	1 x 0.64	0.016	0.41	0.057	1.45	Z1, 1 - 10
<b>3051</b>	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	Z1, 1 - 19, 28, 30
<b>892207T<sup>†</sup></b>	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	Z2, 0 - 9
<b>892219<sup>†</sup></b>	22	0.38	19/34	19 x 0.16	0.016	0.41	0.064	1.63	Z2, 0 - 9
<b>3053</b>	20	0.51	10/30	10 x 0.25	0.016	0.41	0.069	1.75	Z1, 1 - 19, 28, 30
<b>892010T<sup>†</sup></b>	20	0.51	10/30	10 x 0.25	0.016	0.41	0.069	1.75	Z2, 0 - 9
<b>3053/1</b>	20	0.52	Solid	1 x 0.81	0.016	0.41	0.064	1.63	Z1, 1 - 10
<b>892007<sup>†</sup></b>	20	0.56	7/28	7 x 0.32	0.016	0.41	0.070	1.78	Z2, 0 - 9
<b>892019<sup>†</sup></b>	20	0.62	19/32	19 x 0.20	0.016	0.41	0.072	1.83	Z2, 0 - 9
<b>3055</b>	18	0.81	16/30	16 x 0.25	0.016	0.41	0.079	2.01	Z1, 1 - 19, 28, 30
<b>891816T<sup>†</sup></b>	18	0.81	16/30	16 x 0.25	0.016	0.41	0.079	2.01	Z2, 0 - 9
<b>3055/1</b>	18	0.82	Solid	1 x 1.02	0.016	0.41	0.072	1.83	Z1, 1 - 10
<b>891819<sup>†</sup></b>	18	0.96	19/30	19 x 0.25	0.016	0.41	0.082	2.08	Z2, 0 - 9
<b>3057/1</b>	16	1.31	Solid	1 x 1.29	0.016	0.41	0.083	2.11	Z1, 1 - 10
<b>3057</b>	16	1.32	26/30	26 x 0.25	0.016	0.41	0.092	2.34	Z1, 1 - 19, 28, 30
<b>891441<sup>†</sup></b>	14	2.08	41/30	41 x 0.25	0.016	0.41	0.106	2.69	Z2, 0 - 9
<b>891265*<sup>†</sup></b>	12	3.30	65/30	65 x 0.25	0.016	0.41	0.125	3.18	Z2, 0 - 9
<b>891000*<sup>†</sup></b>	10	5.32	105/30	105 x 0.25	0.016	0.41	0.150	3.81	Z2, 0 - 9

\*UL AWM 1581 and 1569. All others UL AWM 1007 and 1569.

<sup>†</sup>CSA AWM I A/B FT-1.

"T" indicates topcoat conductors.

### Insulation Colors Z1

1 White	5 Yellow	9 Slate	13 White/Green	17 White/Orange	29 Yellow/Green
2 Black	6 Blue	10 Violet	14 White/Yellow	18 White/Slate	30 Pink
3 Red	7 Brown	11 White/Black	15 White/Blue	19 White/Violet	
4 Green	8 Orange	12 White/Red	16 White/Brown	28 Green/Yellow	

### Insulation Colors Z2

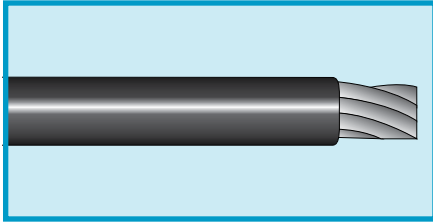
0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

These wires also available in 500 ft (152 m) put-ups.



# Hook-Up Wire

## 300 V, Semirigid PVC



**UL AWM 1061 VW-1  
CSA AWM I A/B FT1**

### Operating Temperature

- -10°C to +80°C

### Materials

- Stranded or solid tinned copper conductor
- Semirigid PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>422807</b>	28	0.09	7/36	7 x 0.13	0.010	0.25	0.035	0.89	Z2
<b>422801</b>	28	0.08	Solid	1 x 0.32	0.010	0.25	0.033	0.84	Z2
<b>422607</b>	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99	Z2
<b>422601</b>	26	0.13	Solid	1 x 0.40	0.010	0.25	0.036	0.91	Z2
<b>3250</b>	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12	Z1
<b>3251</b>	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27	Z1
<b>422010</b>	20	0.51	10/30	10 x 0.25	0.010	0.25	0.057	1.45	Z2
<b>3252</b>	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47	Z1
<b>422001</b>	20	0.52	Solid	1 x 0.81	0.010	0.25	0.052	1.32	Z2
<b>421816</b>	18	0.81	16/30	16 x 0.25	0.010	0.25	0.067	1.70	Z2
<b>3253</b>	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73	Z1
<b>421626</b>	16	1.32	26/30	26 x 0.25	0.010	0.25	0.080	2.03	Z2
<b>3254</b>	16	1.43	7/24	7 x 0.51	0.010	0.25	0.080	2.03	Z1

### Insulation Colors Z1

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

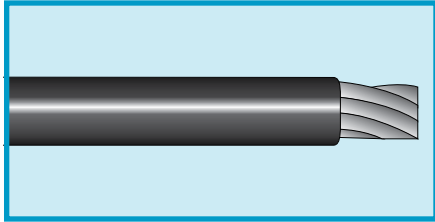
### Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

These wires also available in 500 ft (152 m) put-ups.

# Hook-Up Wire

600 V, PVC



**UL AWM 1015, 1028, 1230,  
1231, 1232, 1283, 1284 VW-1  
UL MTW, TW (14 to 8 AWG),  
THW (6 to 1/0 AWG)  
CSA AWM I A/B FT1 and  
TEW-105**

### Operating Temperature

- -40°C to +105°C (AWM, TEW)
- -40°C to +90°C (MTW)
- -40°C to +75°C (THW)
- -40°C to +60°C (TW)

### Materials

- Stranded bare copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

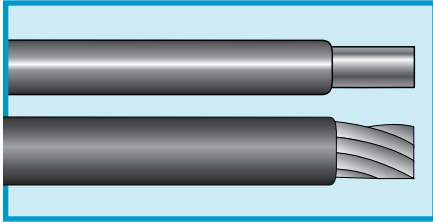
Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		UL Style
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>461816</b>	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82	1015, 1230
<b>461626</b>	16	1.32	26/30	26 x 0.25	0.032	0.81	0.124	3.15	1015, 1230
<b>461419</b>	14	2.07	19/0.0147	19 x 0.37	0.032	0.81	0.138	3.51	1015, 1230
<b>461219</b>	12	3.29	19/0.0185	19 x 0.47	0.032	0.81	0.157	3.99	1015, 1230
<b>461265</b>	12	3.29	65/0.010	65 x 0.25	0.031	0.79	0.153	3.89	1015, 1230
<b>461019</b>	10	5.26	19/0.0234	19 x 0.59	0.032	0.81	0.181	4.60	1015, 1230
<b>460819</b>	8	8.38	19/0.0295	19 x 0.75	0.047	1.19	0.242	6.15	1028, 1231
<b>460619</b>	6	13.32	19/0.0372	19 x 0.94	0.063	1.59	0.311	7.90	1283, 1232
<b>460419</b>	4	21.09	19/0.0469	19 x 1.19	0.063	1.59	0.360	9.14	1283, 1232
<b>460219</b>	2	33.63	19/0.0591	19 x 1.50	0.063	1.59	0.421	10.69	1283, 1232
<b>460001</b>	1/0	53.39	19/0.0745	19 x 1.89	0.078	1.98	0.529	13.44	1284, 1232

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

## 600 V, PVC



**UL AWM 1015, 1028, 1230,  
1231, 1232, 1283, 1284 VW-1**  
**UL MTW (22 to 4/0 AWG)**  
**UL THW (6 to 1/0 AWG)**  
**CSA AWM I A/B FT1 and**  
**TEW 105**

- -20°C to +75°C (THW)
- -20°C to +60°C (TW)

### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

### Operating Temperature

- -20°C to +105°C (AWM, TEW)
- -20°C to +90°C (MTW)

### Availability

- 100 ft (30.5 m)
- 1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness			Nominal Diameter		UL Style	Colors
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm			
782607*	26	0.14	7/34	7 x 0.16	0.032	0.81	0.083	2.11	1015, 1230	Z2, 0 - 9	
782401*	24	0.20	Solid	1 x 0.51	0.032	0.81	0.084	2.13	1015, 1230	Z2, 0 - 9	
3070*	24	0.23	7/32	7 x 0.20	0.032	0.81	0.088	2.24	1015	Z1, 1 - 10, 28	
782201	22	0.32	Solid	1 x 0.64	0.032	0.81	0.089	2.26	1015, 1230	Z2, 0 - 9	
782207T	22	0.35	7/30	7 x 0.25	0.032	0.81	0.094	2.39	1015, 1230	Z2, 0 - 9	
3071	22	0.35	7/30	7 x 0.25	0.032	0.81	0.094	2.39	1015	Z1, 1 - 10, 28, 29	
782010T	20	0.51	10/30	10 x 0.25	0.032	0.81	0.101	2.57	1015, 1230	Z2, 0 - 9	
3073	20	0.51	10/30	10 x 0.25	0.032	0.81	0.101	2.57	1015	Z1, 1 - 10, 28	
782001	20	0.52	Solid	1 x 0.81	0.032	0.81	0.096	2.44	1015, 1230	Z2, 0 - 9	
781816T	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82	1015, 1230	Z2, 0 - 9	
3075	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82	1015	Z1, 1 - 10, 28, 29	
781801	18	0.82	Solid	1 x 1.02	0.032	0.81	0.104	2.64	1015, 1230	Z2, 0 - 9	
781601	16	1.31	Solid	1 x 1.29	0.032	0.81	0.115	2.92	1015, 1230	Z2, 0 - 9	
3077	16	1.32	26/30	26 x 0.25	0.032	0.81	0.124	3.15	1015	Z1, 1 - 10, 28, 29	
781401	14	2.08	Solid	1 x 1.63	0.032	0.81	0.128	3.25	1015, 1230	Z2, 0 - 9	
3079	14	2.08	41/30	41 x 0.25	0.032	0.81	0.138	3.51	1015	Z1, 1 - 10, 28, 29	
3080	12	3.29	65/30	65 x 0.25	0.032	0.81	0.157	3.99	1015	Z1, 1 - 4	
781201	12	3.31	Solid	1 x 2.06	0.032	0.81	0.145	3.68	1015, 1230	Z2, 0 - 9	
781001	10	5.26	Solid	1 x 2.59	0.032	0.81	0.166	4.22	1015, 1230	Z2, 0 - 9	
3081	10	5.32	105/30	105 x 0.25	0.032	0.81	0.184	4.67	1015	Z1, 1 - 4	
788133	8	8.61	133/29	133 x 0.29	0.047	1.19	0.263	6.68	1028, 1231	Z2, 0 - 9	
786133	6	13.57	133/27	133 x 0.36	0.063	1.60	0.336	8.53	1283, 1232	Z2, 0 - 9	
784133	4	21.55	133/25	133 x 0.45	0.063	1.60	0.395	10.03	1283, 1232	Z2, 0 - 9	
782665	2	33.72	665/30	665 x 0.25	0.063	1.60	0.461	11.71	1283, 1232	Z2, 0 - 9	
782133	2	34.45	133/23	133 x 0.57	0.063	1.60	0.465	11.81	1283, 1232	Z2, 0 - 9	
781259	1	41.96	259/25	259 x 0.45	0.082	2.08	0.540	13.72	1284, 1232	Z2, 0 - 9	
781836	1	42.39	836/30	836 x 0.25	0.082	2.08	0.547	13.89	1284, 1232	Z2, 0 - 9	
780001	1/0	52.98	1045/30	1045 x 0.25	0.082	2.08	0.592	15.04	1284, 1232	Z2, 0 - 9	
780002	2/0	67.43	1330/30	1330 x 0.25	0.082	2.08	0.647	16.43	1284, 1232	Z2, 0 - 9	
780003	3/0	84.47	1666/30	1666 x 0.25	0.082	2.08	0.768	19.51	1284, 1232	Z2, 0 - 9	
780004	4/0	106.93	2109/30	2109 x 0.25	0.082	2.08	0.754	19.15	1284, 1232	Z2, 0 - 9	

T indicates top coat conductors.

\*Not MTW

### Insulation Colors Z1

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	28 Green/Yellow
4 Green	8 Orange	29 Yellow/Green

### Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

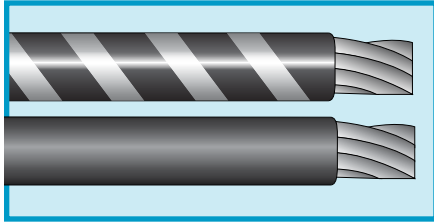
These wires also available in 500 ft (152 m) put-ups.





# Hook-Up Wire

## 600 V, PVC



### MIL-DTL-16878/1 (Type B) MIL-W-76 Type LW

#### Operating Temperature

- -55°C to +105°C

#### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

#### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>1850</b>	32	0.03	7/40	7 x 0.08	0.010	0.25	0.029	0.74	Z1, 1 - 6
<b>1851*</b>	30	0.06	7/38	7 x 0.10	0.010	0.25	0.032	0.81	Z1, 1 - 6
<b>1852*</b>	28	0.09	7/36	7 x 0.12	0.010	0.25	0.035	0.89	Z1, 1 - 10
<b>1853*</b>	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99	Z1, 1 - 19
<b>172619</b>	26	0.15	19/38	19 x 0.10	0.010	0.25	0.040	1.02	Z2, 0 - 9
<b>1854*</b>	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12	Z1, 1 - 19
<b>1854/19</b>	24	0.24	19/36	19 x 0.13	0.010	0.25	0.045	1.14	Z1, 1 - 19
<b>1855</b>	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27	Z1, 1 - 19
<b>1855/19</b>	22	0.38	19/34	19 x 0.16	0.010	0.25	0.052	1.32	Z1, 1 - 19
<b>1856*</b>	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47	Z1, 1 - 19
<b>1856/19</b>	20	0.62	19/32	19 x 0.20	0.010	0.25	0.060	1.52	Z1, 1 - 19
<b>1857</b>	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73	Z1, 1 - 19
<b>1857/19</b>	18	0.96	19/30	19 x 0.25	0.010	0.25	0.070	1.78	Z1, 1 - 19
<b>1858/19</b>	16	1.23	19/29	19 x 0.29	0.010	0.25	0.076	1.93	Z1, 1 - 19
<b>1859/19</b>	14	1.94	19/27	19 x 0.36	0.010	0.25	0.091	2.31	Z1, 1 - 10

\*Also meets MIL-W-76 Type LW.

#### Insulation Colors Z1

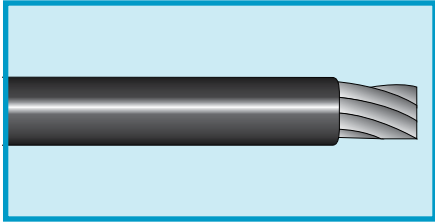
1 White	5 Yellow	9 Slate	13 White/Green	17 White/Orange
2 Black	6 Blue	10 Violet	14 White/Yellow	18 White/Slate
3 Red	7 Brown	11 White/Black	15 White/Blue	19 White/Violet
4 Green	8 Orange	12 White/Red	16 White/Brown	

#### Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

# Hook-Up Wire

## 600 V, PVC



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>1579</b>	14	2.08	41/30	41 x 0.25	0.045	1.14	0.164	4.17
<b>1651</b>	12	3.29	65/30	65 x 0.25	0.045	1.14	0.183	4.65
<b>1653</b>	10	5.32	105/30	105 x 0.25	0.045	1.14	0.210	5.33
<b>1655</b>	8	8.61	133/29	133 x 0.28	0.045	1.14	0.259	6.58

### MIL-W-76 Type HW

#### Operating Temperature

- -20°C to +80°C

#### Materials

- Stranded tinned copper conductor
- PVC insulation

#### Availability

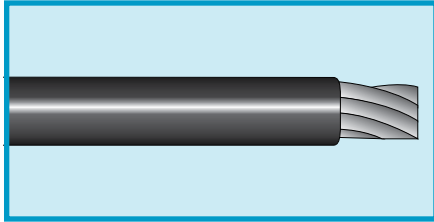
100 ft (30.5 m)  
1000 ft (305 m)

#### Insulation Colors

White
Black
Red

# Hook-Up Wire

600 V, PVC



**MIL-DTL-16878/2 (Type C)**  
**UL VW-1**

### Operating Temperature

- -55°C to +105°C

### Materials

- Stranded tinned copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

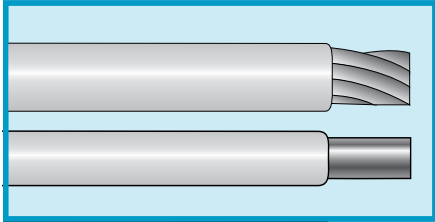
Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>202207</b>	22	0.35	7/30	7 x 0.25	0.017	0.43	0.064	1.63
<b>202007</b>	20	0.56	7/28	7 x 0.32	0.017	0.43	0.072	1.83
<b>201807</b>	18	0.90	7/26	7 x 0.40	0.017	0.43	0.082	2.08
<b>201819</b>	18	0.96	19/30	19 x 0.25	0.017	0.43	0.084	2.13
<b>201619</b>	16	1.23	19/29	19 x 0.29	0.019	0.47	0.093	2.36
<b>201419</b>	14	1.94	19/27	19 x 0.36	0.019	0.47	0.108	2.74
<b>201219</b>	12	3.08	19/25	19 x 0.45	0.019	0.47	0.127	3.23

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

## 600 V, PVC/Nylon



### UL THHN, THWN, TFN, TFFN

#### Operating Temperature

- -40°C to +90°C (THHN, TFN, TFFN)
- -40°C to +75°C (THWN)

#### Materials

- Stranded or solid bare copper conductor
- PVC/nylon insulation

#### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

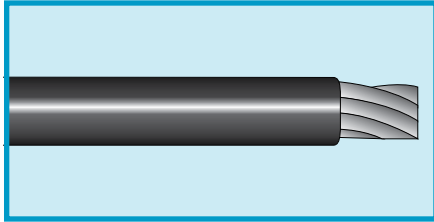
Part No.	Wire Size		Stranding		PVC Insulation Thickness		Nominal Diameter		UL Type
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
541816	18	0.81	16/30	16 x 0.25	0.015	0.38	0.086	2.18	TFFN
541801	18	0.82	Solid	1 x 1.02	0.015	0.38	0.079	2.01	TFN
541626	16	1.32	26/30	26 x 0.25	0.015	0.38	0.099	2.51	TFFN
541419	14	2.07	19/0.0147	19 x 0.37	0.015	0.38	0.113	2.87	THHN, THWN
541401	14	2.08	Solid	1 x 1.63	0.015	0.38	0.103	2.62	THHN, THWN
541219	12	3.29	19/0.0185	19 x 0.47	0.015	0.38	0.132	3.35	THHN, THWN
541201	12	3.31	Solid	1 x 2.06	0.015	0.38	0.120	3.05	THHN, THWN
541019	10	5.26	19/0.0234	19 x 0.59	0.020	0.51	0.166	4.22	THHN, THWN
541001	10	5.26	Solid	1 x 2.59	0.020	0.51	0.141	3.58	THHN, THWN
540819	8	8.38	19/0.0295	19 x 0.75	0.030	0.76	0.219	5.56	THHN, THWN
540619	6	13.32	19/0.0372	19 x 0.94	0.030	0.76	0.257	6.53	THHN, THWN
540419	4	21.09	19/0.0469	19 x 1.19	0.040	1.02	0.329	8.36	THHN, THWN
540219	2	33.63	19/0.0591	19 x 1.50	0.040	1.02	0.390	9.91	THHN, THWN
540001	1/0	53.39	19/0.0745	19 x 1.89	0.050	1.27	0.488	12.40	THHN, THWN

#### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

600 V, PVC/Nylon



## MIL-DTL-16878/17 (Type B/N)

### Operating Temperature

- -55°C to +105°C

### Materials

- Stranded tinned copper conductor
- PVC/nylon insulation

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

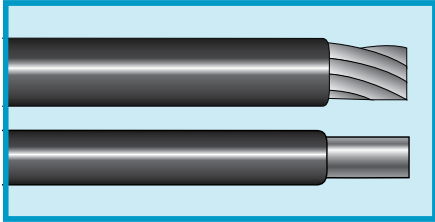
Part No.	Wire Size		Stranding		PVC Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>182607</b>	26	0.14	7/34	7 x 0.16	0.010	0.25	0.045	1.14
<b>182407</b>	24	0.23	7/32	7 x 0.20	0.010	0.25	0.050	1.27
<b>182419</b>	24	0.24	19/36	19 x 0.13	0.010	0.25	0.051	1.30
<b>182219</b>	22	0.38	19/34	19 x 0.16	0.010	0.25	0.058	1.47
<b>182019</b>	20	0.62	19/32	19 x 0.20	0.010	0.25	0.066	1.68
<b>181807</b>	18	0.90	7/26	7 x 0.40	0.010	0.25	0.074	1.88
<b>181819</b>	18	0.96	19/30	19 x 0.25	0.010	0.25	0.076	1.93
<b>181619</b>	16	1.23	19/29	19 x 0.29	0.010	0.25	0.082	2.08
<b>181419</b>	14	1.94	19/27	19 x 0.36	0.010	0.25	0.097	2.46

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

1000 V, PVC



## MIL-W-76 Type MWP

### Operating Temperature

- -55°C to +90°C

### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)  
 1000 ft (305 m)  
 Bulk, cut to length

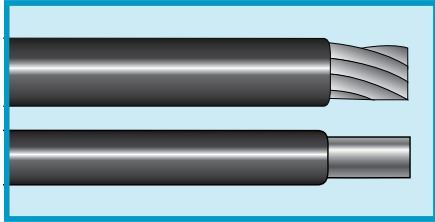
Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>302407</b>	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42
<b>302207</b>	22	0.35	7/30	7 x 0.25	0.016	0.41	0.064	1.63
<b>302201</b>	22	0.32	Solid	1 x 0.64	0.016	0.41	0.057	1.45
<b>302010</b>	20	0.51	10/30	10 x 0.25	0.016	0.41	0.069	1.75
<b>301816</b>	18	0.81	16/30	16 x 0.25	0.016	0.41	0.079	2.01
<b>301626</b>	16	1.32	26/30	26 x 0.25	0.016	0.41	0.092	2.34
<b>301619</b>	16	1.23	19/29	19 x 0.29	0.016	0.41	0.088	2.24
<b>301441</b>	14	2.08	41/30	41 x 0.25	0.016	0.41	0.106	2.69

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

1000 V, PVC



## MIL-W-76 B Type MW

### Operating Temperature

- -40°C to +80°C

### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

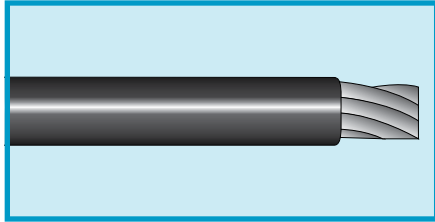
Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors*
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>1550</b>	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	1 - 19
<b>1561/24</b>	24	0.20	Solid	1 x 0.51	0.016	0.41	0.052	1.32	1 - 6
<b>1551</b>	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	1 - 19
<b>1561</b>	22	0.32	Solid	1 x 0.64	0.016	0.41	0.057	1.45	1 - 6
<b>1553</b>	20	0.51	10/30	10 x 0.25	0.016	0.41	0.069	1.75	1 - 19
<b>1563</b>	20	0.52	Solid	1 x 0.81	0.016	0.41	0.064	1.63	1 - 6
<b>1555</b>	18	0.81	16/30	16 x 0.25	0.016	0.41	0.079	2.01	1 - 19
<b>1565</b>	18	0.82	Solid	1 x 1.02	0.016	0.41	0.072	1.83	1 - 6
<b>1557</b>	16	1.32	26/30	26 x 0.25	0.016	0.41	0.092	2.34	1 - 19
<b>1559</b>	14	2.08	41/30	41 x 0.25	0.016	0.41	0.106	2.69	1 - 10
<b>1560</b>	12	3.29	65/30	65 x 0.25	0.016	0.41	0.125	3.18	1 - 10

### Insulation Colors

1 White	5 Yellow	9 Slate	13 White/ Green	17 White/ Orange
2 Black	6 Blue	10 Violet	14 White/ Yellow	18 White/ Slate
3 Red	7 Brown	11 White/ Black	15 White/Blue	19 White/ Violet
4 Green	8 Orange	12 White/Red	16 White/ Brown	

# Hook-Up Wire

600/150 V, Irradiated PVC  
Soldering Iron Resistant



**MIL-DTL-16878/1 (Type B)  
(600 V)**  
**UL AWM 1429 (150 V)**  
**CSA AWM I A/B FT1 (150 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +80°C (AWM, CSA)

### Materials

- Stranded tinned copper conductor
- Irradiated PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>7053</b>	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99
<b>7054</b>	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12
<b>7054/19</b>	24	0.24	19/36	19 x 0.13	0.010	0.25	0.045	1.14
<b>7055</b>	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27
<b>7055/19</b>	22	0.38	19/34	19 x 0.16	0.010	0.25	0.052	1.32
<b>7056</b>	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47
<b>7056/19</b>	20	0.62	19/32	19 x 0.20	0.010	0.25	0.060	1.52
<b>7057</b>	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73
<b>7057/19</b>	18	0.96	19/30	19 x 0.25	0.010	0.25	0.070	1.78
<b>7058/19</b>	16	1.32	19/0.0117	19 x 0.30	0.010	0.25	0.076	1.93

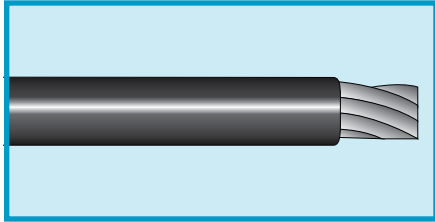
### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	



# Hook-Up Wire

1000/300 V, Irradiated PVC  
Soldering Iron Resistant



**MIL-DTL-16878/2 (Type C)  
(1000 V)**  
**UL AWM 1430 (300 V)**  
**CSA REW XLPVC FT1 (300 V)**

### Operating Temperature

- 55°C to +105°C

### Materials

- Stranded tinned copper conductor
- Irradiated PVC insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>7130</b>	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	1 - 10, 29
<b>7131</b>	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	1 - 10
<b>7132</b>	20	0.56	7/28	7 x 0.32	0.016	0.41	0.070	1.78	1 - 10
<b>7133</b>	18	0.89	7/26	7 x 0.40	0.016	0.41	0.080	2.03	1 - 10, 29
<b>7134</b>	16	1.32	19/0.0117	19 x 0.30	0.016	0.41	0.088	2.24	1 - 10, 29
<b>7035*</b>	14	2.07	19/0.0147	19 x 0.37	0.016	0.41	0.103	2.62	1 - 10, 29
<b>7036*</b>	12	3.29	19/0.0185	19 x 0.47	0.016	0.41	0.122	3.10	1 - 10, 29

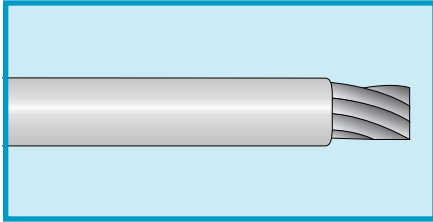
\*UL AWM 3317

### Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	29 Yellow/Green
4 Green	8 Orange	

# Hook-Up Wire

## 3000/600 V, XLPE



**MIL-DTL-16878/4 (Type D)**  
**(3000 V)**

**UL AWM 3271 (600 V) VW-1**  
**CSA CL 1251 XLPE (600 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +125°C (UL, CSA)

### Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>7044</b>	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82
<b>7045</b>	16	1.32	26/30	26 x 0.25	0.032	0.81	0.119	3.02
<b>7046</b>	14	2.08	41/30	41 x 0.25	0.032	0.81	0.138	3.51
<b>7047</b>	12	3.29	65/30	65 x 0.25	0.032	0.81	0.155	3.94
<b>7048</b>	10	5.32	105/30	105 x 0.25	0.032	0.81	0.184	4.67

### Insulation Colors

White
Black
Red

## 1000/300 V, XLPE

**MIL-DTL-16878/2 (Type C)**  
**(1000 V)**

**UL AWM 3266 (300 V) VW-1**  
**CSA CL 1252 XLPE (300 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +125°C (UL, CSA)

### Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>7024</b>	22	0.38	19/34	19 x 0.16	0.016	0.41	0.064	1.63
<b>7025</b>	20	0.62	19/32	19 x 0.20	0.016	0.41	0.072	1.83
<b>7026</b>	18	0.96	19/30	19 x 0.25	0.016	0.41	0.080	2.03

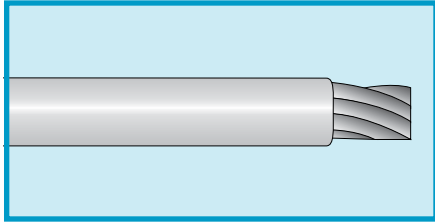
### Insulation Colors

White
Black
Red



# Hook-Up Wire

600/150 V, XLPE



**MIL-DTL-16878/1 (Type B)  
(600 V)**  
**UL AWM 3265 (150 V) VW-1**  
**CSA AWM I A/B FT1 (150 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +125°C (UL, CSA)

### Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)

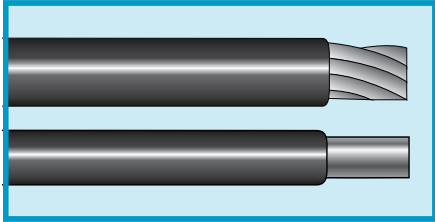
Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>7012</b>	22	0.38	19/34	19 x 0.16	0.011	0.28	0.054	1.37
<b>7013</b>	20	0.62	19/32	19 x 0.20	0.011	0.28	0.06	1.52
<b>7014</b>	18	0.96	19/30	19 x 0.25	0.011	0.28	0.070	1.78

### Insulation Colors

- White
- Black

# Hook-Up Wire

## 600 V, XLPE

**UL AWM 3173, 3195, 3196****UL SIS****CSA AWM I A/B****CSA CL 1251 XLPE****Availability**

100 ft (30.5 m)

500 ft (152 m)

1000 ft (305 m)

**Operating Temperature**

- -20°C to +125°C

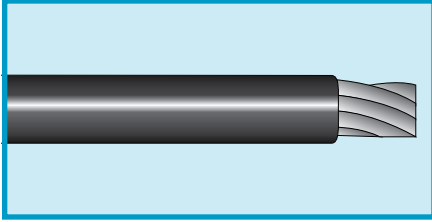
**Materials**

- Stranded or solid tinned copper conductor
- Slate cross-linked polyethylene insulation

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		UL Style
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>M4030</b>	18	0.81	16/30	16 x 0.25	0.031	0.79	0.110	2.79	3173
<b>M4010</b>	18	0.90	7/26	7 x 0.48	0.031	0.79	0.112	2.84	3173
<b>M4001</b>	18	0.82	Solid	1 x 1.02	0.031	0.79	0.105	2.67	3173
<b>M4011</b>	16	1.43	7/24	7 x 0.51	0.031	0.79	0.123	3.12	3173
<b>M4002</b>	16	1.31	Solid	1 x 1.29	0.031	0.79	0.115	2.92	3173
<b>M4012</b>	14	2.29	7/22	7 x 0.64	0.031	0.79	0.140	3.56	SIS, 3173
<b>M4003</b>	14	2.08	Solid	1 x 1.63	0.031	0.79	0.130	3.30	SIS, 3173
<b>M4013</b>	12	3.29	19/0.0185	19 x 0.47	0.031	0.79	0.160	4.06	SIS, 3173
<b>M4004</b>	12	3.31	Solid	1 x 2.06	0.031	0.79	0.150	3.81	SIS, 3173
<b>M4014</b>	10	5.28	19/0.0234	19 x 0.59	0.031	0.79	0.180	4.57	SIS, 3173
<b>M4005</b>	10	5.26	Solid	1 x 2.59	0.031	0.79	0.170	4.32	SIS, 3173
<b>M4035</b>	8	8.63	133/29	133 x 0.29	0.047	1.19	0.270	6.86	SIS, 3195
<b>M4015</b>	8	8.38	19/0.0295	19 x 0.75	0.047	1.19	0.250	6.35	SIS, 3195
<b>M4036</b>	6	13.6	133/27	133 x 0.36	0.062	1.57	0.340	8.64	SIS, 3196
<b>M4016</b>	6	13.3	19/0.0372	19 x 0.94	0.062	1.57	0.320	8.13	SIS, 3196
<b>M4037</b>	4	21.6	133/25	133 x 0.45	0.062	1.57	0.400	10.16	SIS, 3196

# Hook-Up Wire

## 600 V, XLPE



**UL AWM 3173**  
**UL SIS**  
**CSA AWM I A/B FT2**  
**CSA CL1251 XLPE**

### Operating Temperature

- -40°C to +125°C (AWM)
- -40°C to +150°C (CSA CL)
- -40°C to +90°C (SIS)

### Materials

- Stranded tinned copper conductor
- Cross-linked polyethylene insulation

### Availability

500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>752010</b>	20	0.51	10/30	10 x 0.25	0.031	0.79	0.099	2.51
<b>751816</b>	18	0.81	16/30	16 x 0.25	0.031	0.79	0.109	2.77
<b>751626</b>	16	1.32	26/30	26 x 0.25	0.031	0.79	0.122	3.10
<b>751441*</b>	14	2.08	41/30	41 x 0.25	0.031	0.79	0.136	3.45
<b>751265*</b>	12	3.29	65/30	65 x 0.25	0.031	0.79	0.155	3.94
<b>751000*</b>	10	5.32	105/30	105 x 0.25	0.031	0.79	0.180	4.57
<b>758133**</b>	8	8.63	133/29	133 x 0.29	0.047	1.19	0.263	6.68

\*UL SIS.

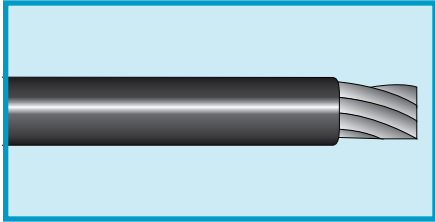
\*\*UL AWM 3195 only.

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

50 V, XLPE



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
<b>631816</b>	18	0.81	16/30	16 x 0.25	0.023	0.58	0.093	2.36
<b>631619</b>	16	1.23	19/29	19 x 0.29	0.023	0.58	0.102	2.59
<b>631419</b>	14	1.94	19/27	19 x 0.36	0.023	0.58	0.113	2.87

## SAE J1128 Type GXL

### Operating Temperature

- -40°C to +125°C

### Materials

- Stranded bare copper conductor
- Cross-linked polyethylene insulation

### Availability

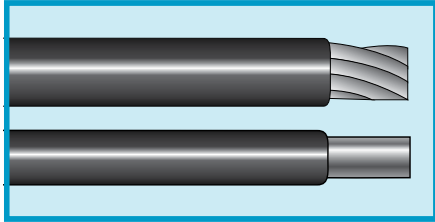
500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

## 250 V, PTFE



### Operating Temperature

- -60°C to +200°C

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

**MIL-DTL-16878/6 (Type ET)**  
**UL VW-1**  
**NEMA HP3**

### Availability

100 ft (30.5 m)  
 1000 ft (305 m)\*

\*May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP3 Type	Colors
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm		
<b>33201</b>	32	0.03	Solid	1 x 0.20	0.006	0.15	0.019	0.48	—	Z2
<b>33219</b>	32	0.04	19/44	19 x 0.05	0.006	0.15	0.022	0.56	—	Z2
<b>2840/7</b>	32	0.03	7/40	7 x 0.08	0.006	0.15	0.022	0.56	ETXBAB	Z1
<b>2841/7</b>	30	0.06	7/38	7 x 0.10	0.006	0.15	0.024	0.61	ETXBBB	Z1
<b>2841/1</b>	30	0.05	Solid	1 x 0.25	0.006	0.15	0.022	0.56	ETXBBA	Z1
<b>2842/7</b>	28	0.09	7/36	7 x 0.12	0.006	0.15	0.027	0.69	ETXBCB	Z1
<b>2842/19</b>	28	0.09	19/40	19 x 0.08	0.006	0.15	0.027	0.69	ETXBCE	Z1
<b>2842/1</b>	28	0.08	Solid	1 x 0.32	0.006	0.15	0.025	0.64	ETXBCA	Z1
<b>2843/7</b>	26	0.14	7/34	7 x 0.16	0.006	0.15	0.031	0.79	ETXBDB	Z1
<b>2843/19</b>	26	0.15	19/38	19 x 0.10	0.006	0.15	0.031	0.79	ETXBDE	Z1
<b>2843/1</b>	26	0.13	Solid	1 x 0.40	0.006	0.15	0.028	0.71	ETXBDA	Z1
<b>2844/7</b>	24	0.23	7/32	7 x 0.20	0.006	0.15	0.036	0.91	ETXBEB	Z1
<b>2844/19</b>	24	0.24	19/36	19 x 0.13	0.006	0.15	0.036	0.91	ETXBEE	Z1
<b>2845/7</b>	22	0.35	7/30	7 x 0.25	0.006	0.15	0.042	1.07	ETXBFB	Z1
<b>2845/19</b>	22	0.38	19/34	19 x 0.16	0.005	0.13	0.042	1.07	ETXBFE	Z1
<b>32007</b>	20	0.56	7/28	7 x 0.32	0.006	0.15	0.050	1.27	ETXBGB	Z2
<b>32019</b>	20	0.62	19/32	19 x 0.20	0.006	0.15	0.052	1.32	ETXBGE	Z2

### Insulation Colors Z1

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

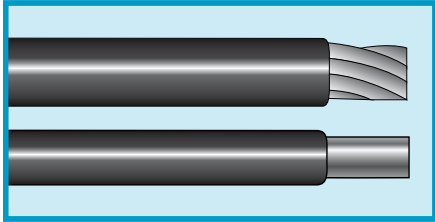
### Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

These wires also available in 500 ft (152 m) put-ups.

# Hook-Up Wire

## 600 V, PTFE



**MIL-DTL-16878/4 (Type E)**  
**UL VW-1**  
**NEMA HP3**

### Operating Temperature

- -60°C to +200°C

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

### Availability

100 ft (30.5 m)

1000 ft (305 m)\*

\*May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP-3
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>13207</b>	32	0.03	7/40	7 x 0.08	0.010	0.25	0.029	0.74	EXBAB
<b>13001</b>	30	0.05	Solid	1 x 0.25	0.010	0.25	0.030	0.76	EXBBA
<b>12819</b>	28	0.09	19/40	19 x 0.07	0.010	0.25	0.036	0.91	—
<b>12819UL*</b>	28	0.09	19/40	19 x 0.07	0.010	0.25	0.036	0.91	—
<b>11807</b>	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73	EXBHB

\*UL AWM 1212 and AWM 1213 and -55°C to +105°C temperature range.

### Insulation Colors

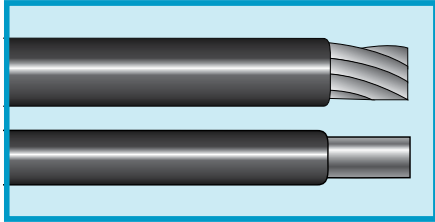
White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	





# Hook-Up Wire

## 600 V, PTFE



**MIL-DTL-16878/4 (Type E)  
(600 V)  
UL AWM 1213\*  
NEMA HP3**

### Operating Temperature

- -60°C to +200°C (MIL)
- -60°C to +105°C (UL)

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)<sup>†</sup>

<sup>†</sup>May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP3 Type
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>5851</b>	30	0.06	7/38	7 x 0.10	0.010	0.25	0.032	0.81	EXBBB
<b>5852</b>	28	0.09	7/36	7 x 0.13	0.010	0.25	0.035	0.89	EXBCB
<b>5853</b>	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99	EXBDB
<b>5853/19</b>	26	0.15	19/38	19 x 0.10	0.010	0.25	0.039	0.99	EXBDE
<b>2853/1</b>	26	0.13	Solid	1 x 0.40	0.010	0.25	0.036	0.91	EXBDA
<b>5854</b>	24	0.24	19/36	19 x 0.13	0.010	0.25	0.044	1.12	EXBEE
<b>5854/7</b>	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12	EXBEB
<b>2854/1</b>	24	0.20	Solid	1 x 0.51	0.010	0.25	0.040	1.02	EXBEA
<b>5855</b>	22	0.38	19/34	19 x 0.16	0.010	0.25	0.050	1.27	EXBFE
<b>5855/7</b>	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27	EXBFB
<b>2855/1</b>	22	0.32	Solid	1 x 0.64	0.010	0.25	0.045	1.14	EXBFA
<b>5856</b>	20	0.62	19/32	19 x 0.20	0.010	0.25	0.058	1.47	EXBGE
<b>5856/7</b>	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47	EXBGB
<b>2856/1***</b>	20	0.52	Solid	1 x 0.81	0.010	0.25	0.052	1.32	EXBGA
<b>5857</b>	18	0.96	19/30	19 x 0.25	0.010	0.25	0.069	1.75	EXBHE
<b>2857/1***</b>	18	0.82	Solid	1 x 1.02	0.011	0.27	0.061	1.55	EXBHA
<b>5858</b>	16	1.23	19/29	19 x 0.29	0.012	0.30	0.080	2.03	EXBJE
<b>5859<sup>†</sup></b>	14	1.94	19/27	19 x 0.36	0.012	0.30	0.095	2.41	EXBKE
<b>5859/12<sup>†</sup></b>	12	3.08	19/25	19 x 0.45	0.012	0.30	0.114	2.90	EXBLE
<b>5859/10<sup>†</sup></b>	10	4.74	37/26	37 x 0.40	0.012	0.30	0.134	3.40	EXBMG

\*Voltage rating not specified.

\*\*\*White, black, red only.

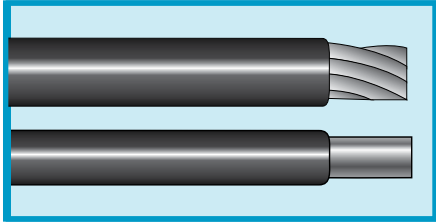
<sup>†</sup>White only, not UL AWM 1213.

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

# Hook-Up Wire

## 1000/300 V, PTFE



**MIL-DTL-16878/5 (TYPE EE)  
(1000V)  
UL AWM 1180 (300V)  
NEMA HP3**

### Operating Temperature

- -60°C to +200°C

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

### Availability

100 ft (30.5 m)  
1000 ft (305 m)\*

\*May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP3 Type
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	
<b>5874</b>	24	0.24	19/36	19 x 0.13	0.015	0.37	0.054	1.37	EEXBEE
<b>5875</b>	22	0.38	19/34	19 x 0.16	0.014	0.36	0.060	1.52	EEXBFE
<b>5876</b>	20	0.62	19/32	19 x 0.20	0.014	0.36	0.068	1.73	EEXBGE
<b>5877</b>	18	0.96	19/30	19 x 0.25	0.015	0.37	0.079	2.01	EEXBHE
<b>5878</b>	16	1.23	19/29	19 x 0.29	0.016	0.41	0.089	2.26	EEXBJE
<b>5879</b>	14	1.94	19/27	19 x 0.36	0.017	0.43	0.106	2.69	EEXBKE
<b>5879/10</b>	10	4.74	37/26	37 x 0.40	0.017	0.43	0.145	3.68	EEXBMG
<b>5879/12</b>	12	3.08	19/25	19 x 0.45	0.017	0.43	0.125	3.18	EEXBLE
<b>5879/8*</b>	8	8.61	133/29	133 x 0.29	0.020	0.51	0.209	5.31	EEXBNL

\*Not UL AWM 1180.

### Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

Parts 5878, 5879, 5879/8, 5879/10, 5879/12: white only.