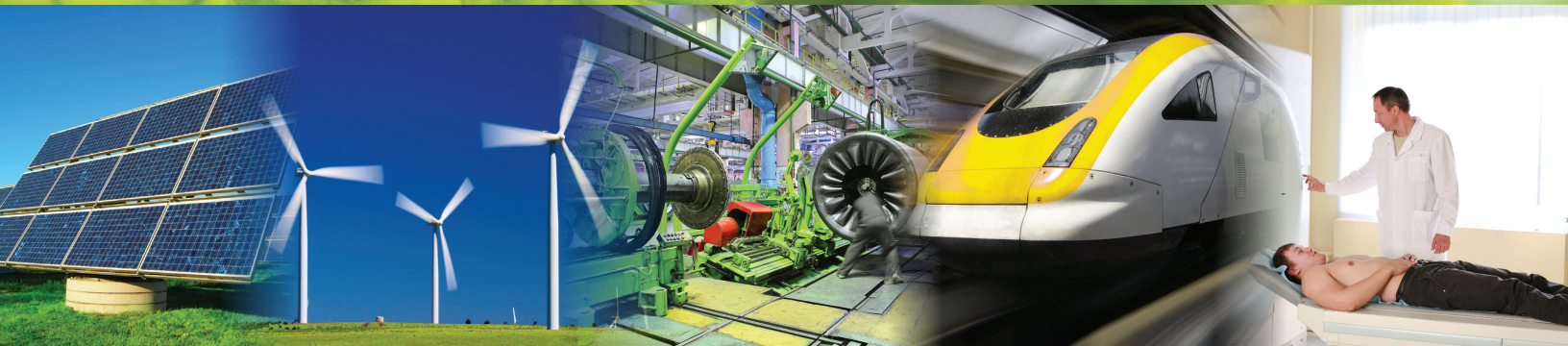


# EcoWire® and EcoWire® Plus Hook-Up Wire

Smaller. Lighter. Tougher. Minimal Footprint.



# 100% performance, minimal footprint

**E**coWire 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.

**mPPE Insulation:  
All the Advantages in Smaller,  
Lighter Wire**

## Environmentally friendly

EcoWire contains no halogens, phthalates, or heavy metals. It meets RoHS and WEEE requirements for the elimination of hazardous substances.

## Better Performance than PVC

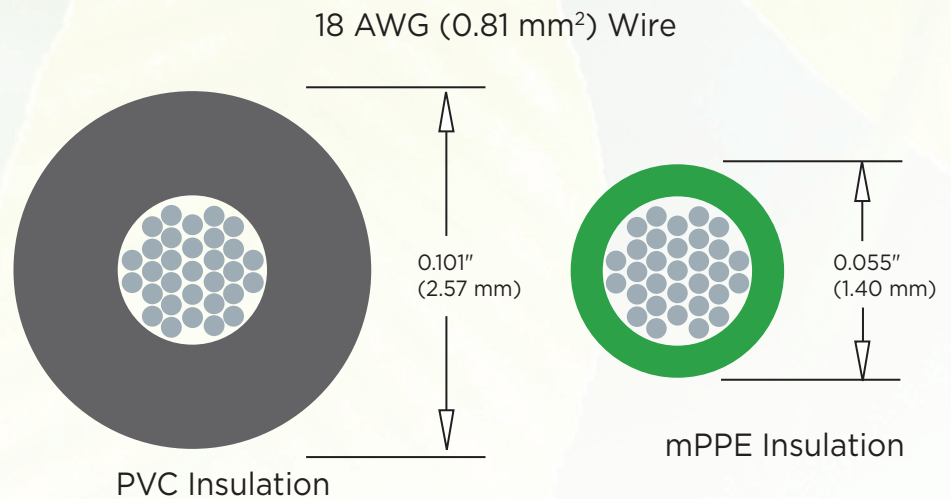
- Up to 45% smaller diameter
- Up to 40% lighter

## Better dielectric strength

The superior dielectric properties of mPPE make possible a reduced wall thickness while maintaining the same electrical properties as PVC. EcoWire's diameter is up to 45% smaller than equivalent wires.

## Low specific gravity

The 1.03 specific gravity of mPPE is 25% to 40% lower than other insulation materials, such as PVC, polyethylene, and cross-linked polyethylene. Along with the reduced wall thickness, the low specific gravity yields significant weight savings of up to 40%.



# EcoWire specifications

## Standard EcoWire

### Materials

Conductors Stranded or solid tinned copper  
Insulation Modified polyphenylene ether

### Electrical

Voltage 600 volts

### Physical and Mechanical

Temperature Range -40°C to +105°C

### Availability

100 ft (30.5 m), 1000 ft (305 m), 5000 ft (1525 m), and 25,000 ft (7625 m) lengths  
14 AWG and smaller is also available in 5000 ft Reel and 25,000 ft Drum

### Approvals

CSA AWM I A/B FT1  
UL AWM 11028  
UL VW-1  
CE

RoHS compliant  
Reach compliant

### Colors

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Slate, Violet, Yellow/Green, Dark Blue



Part No.	Conductor Size		Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
6710	28	0.07	7/36	7 x 0.12	0.010	0.24	0.034	0.86
6711	26	0.14	7/34	7 x 0.16	0.010	0.24	0.038	0.97
6712	24	0.22	7/32	7 x 0.20	0.010	0.24	0.043	1.09
6713	22	0.35	7/30	7 x 0.25	0.010	0.24	0.049	1.24
6714	20	0.51	10/30	10 x 0.25	0.010	0.24	0.055	1.40
6715	18	0.81	16/30	16 x 0.25	0.010	0.24	0.067	1.70
6715S	18	0.82	Solid	Solid	0.010	0.24	0.059	1.50
6716	16	1.32	26/30	26 x 0.25	0.011	0.28	0.081	2.06
6717	14	2.09	41/30	41 x 0.25	0.011	0.28	0.096	2.44
6717S	14	2.08	Solid	Solid	0.011	0.28	0.086	2.18
6718	12	3.31	65/30	65 x 0.25	0.012	0.30	0.117	2.97
6719	10	5.37	105/30	105 x 0.25	0.012	0.30	0.142	3.61

## EcoWire Plus

### Materials

Conductors Stranded bare copper  
Insulation Modified polyphenylene ether

### Electrical

Voltage 300 V  
ISO 6722 Voltage 60 V

### Physical and Mechanical

Temperature Range -40°C to +110°C

### Availability

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

### Approvals

ISO 6722 Ultra Thin Wall  
ISO 6722 Thin Wall  
CE

RoHS compliant  
REACH compliant

### Colors

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Green/Yellow

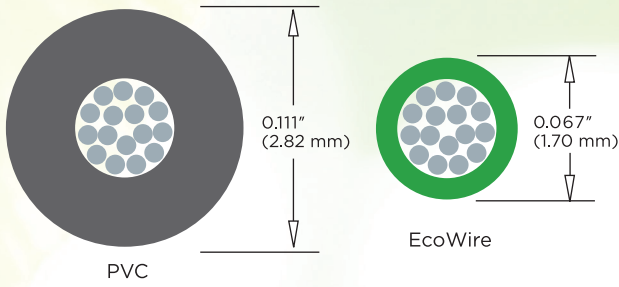


Part No.	Conductor Size			Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm <sup>2</sup>	ISO mm Equiv.	AWG	mm	Inch	mm	Inch	mm
6820	28	0.09	-	7/36	7 x 0.12	0.008	0.20	0.031	0.79
6821	26	0.14	0.13	7/34	7 x 0.16	0.008	0.20	0.035	0.89
6822	24	0.23	0.22	7/32	7 x 0.20	0.008	0.20	0.040	1.02
6823	22	0.35	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	0.076	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

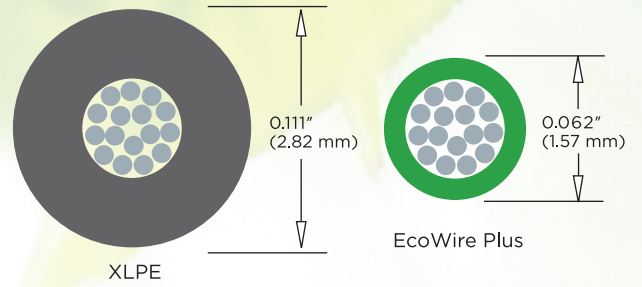


# Product comparison

18 AWG (0.81) Wire



18 AWG (0.81) Wire



Wire Type	Voltage (V)	Temperature Range	Approvals	Wall Thickness	Halogen?
<b>Standard EcoWire</b>	600	-40°C to +105°C	CSA AWM I A/B UL AWM Style 11028 RoHS Compliant REACH Compliant UL VW-1	0.010" to 0.012" (0.24 to 0.32 mm)	No
<b>PVC (UL AWM 1015)</b>	600	-20°C to +105°C	UL AWM Style 1015 CSA TEW-105 RoHS Compliant	0.031" to 0.32" (0.79 to 0.81 mm)	Yes
<b>EcoWire Plus</b>	300	-40°C to +110°C	ISO 6722 Ultra Thin Wall ISO 6722 Thin Wall Type RoHS Compliant REACH Compliant	0.008" to 0.017" (0.20 to 0.43 mm)	No
<b>XLPE (UL AWM 3271)</b>	600	-55°C to +125°C	UL AWM Style 3271 CSA CL1251-XLPE MIL-W-16878E Type D RoHS Compliant	0.032" (0.81 mm)	Yes

## Samples for comparison

6715 (EcoWire)



6825 (EcoWire Plus)



3075 (PVC)



7044 (XLPE)



## The cables you trust. The service you deserve.

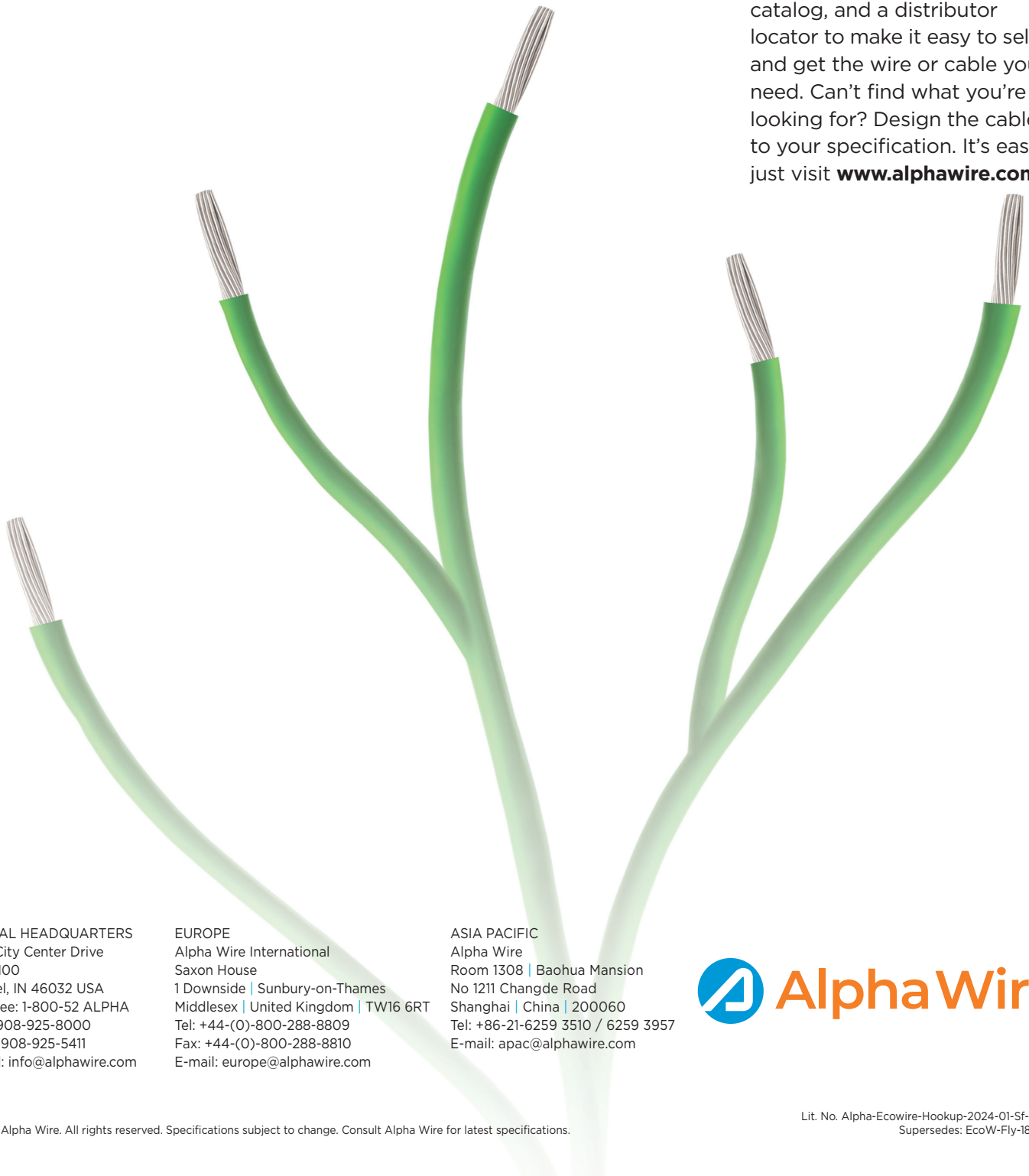
Every application is critical and cable and wire failure is not an option when the safety of your equipment and personnel is paramount. Choose Alpha products since the integrity of your system is only as robust as the products you use. Alpha Wire is the intricate solution for your most complex problems.

## Superior availability.

Alpha Wire offers wire and cable from stock in most sizes and constructions, in both small and large put-ups, so you can order it when you need it.

## Service and support, second-to-none.

Selecting the correct wire or cable for your critical application is essential to overall system reliability, performance, and safety. So we make it easy for you select the right Alpha product for your specific application. Our online resources include a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the wire or cable you need. Can't find what you're looking for? Design the cable to your specification. It's easy, just visit [www.alphawire.com](http://www.alphawire.com)!



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