

# EcoGen™ Wire and Cable



**AlphaWire**

*Cables you trust. Service you deserve.*

# EcoGen™ Wire and Cable

## Better Performance In a Smaller Package

Alpha's EcoGen family of wire and cable combines better performance with minimum environmental impact. Each member of the EcoGen family derives its advantages from modified polyphenylene ether (mPPE) jacketing and insulation. EcoGen is:

- **Zero Halogen**
- **Capable of handling temperatures extremes to -50°C**
- **Compared to PVC counterparts, EcoGen wire and cable is:**
  - **Up to 47% smaller**
  - **Up to 65% lighter**
  - **Up to 87% lower outgassing**

### Environmentally Friendly

EcoGen products contain no halogens, phthalates, or heavy metals. The mPPE thermoplastic insulation and jacketing can be easily recycled. They meet RoHS and WEEE requirements for the elimination of hazardous substances and recyclability.

### 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 65% with EcoCable.

### Better Dielectric Strength

The superior dielectric properties of mPPE make a reduced wall thickness possible, while maintaining the same electrical properties as a thicker PVC control cable.

### More Choice in EMI Protection

Alpha Wire offers EcoGen cables in three shielding options to handle any electrical environment.

- **Unshielded**
- **Foil Shielded**
- **SupraShield® Foil + Braid Shield**

### The EcoGen Portfolio

#### EcoCable® Control Cable

Recyclable 600 V control cable that's up to 47% smaller and 65% lighter than PVC

#### EcoCable Mini Cable

Recyclable 300 V cable that's up to 32% smaller and 44% lighter than PVC, and halogen free

#### EcoFlex® Cable

Fully recyclable compact cable that's up to 32% smaller and 55% lighter than PVC—for moderate flex applications

#### EcoFlex® PUR Cable

Provides abrasion, UV, and oil resistance of a tough halogen free polyurethane jacket in a flex cable that's up to 40% smaller and 44% lighter than other 600 V continuous flex cables

#### EcoWire® Hook-Up Wire

Smaller, lighter, halogen-free replacement for PVC-insulated wire

#### EcoWire® Plus Hook-Up Wire

Provides all of the environmental benefits and abrasion-resistance characteristics of standard EcoWire, plus additional fluid resistance for demanding factory applications



Alpha Wire's next generation of eco-friendly, high-performance wire and cable, designed to provide better performance in a smaller package.

- EcoCable®
- EcoWire®
- EcoFlex® Cable
- EcoWire® Plus
- EcoCable® Mini
- EcoFlex® PUR

Learn more about the EcoGen family of products at  
[www.alphawire.com/EcoGen](http://www.alphawire.com/EcoGen)

# EcoWire® 600 V and EcoWire Plus 300 V



## mPPE Wire



Innovative EcoWire combines increased performance with a minimized environmental impact.

EcoWire Plus offers all the benefits of EcoWire, plus higher temperature range and additional fluid resistance for demanding factory applications.

Compared to PVC wire, EcoWire's (mPPE) insulation allows wire that is:

- Up to 45% smaller in diameter
- Up to 40% lighter
- Zero halogen, with no heavy metal pigments
- 100% recyclable

### Temperature Range

- 40°C to + 105°C (EcoWire)
- 40°C to + 110°C (EcoWire Plus)

### Materials

Stranded or solid tinned copper conductors  
Modified polyphenylene ether insulation

### Approvals

- UL AWM 11028 VW-1
- CSA AWM I A/B FT1
- IEC 60332-2 Flame Behavior
- RoHS Compliant
- REACH Compliant
- Zero Halogen
- CE Compliant

### Availability

- 100 ft (30.5 m)
- 1000 ft (305 m)
- 5000 ft (1524 m)
- 25,000 ft (7620 m) drum

### EcoWire

Part No.	Conductor Size		Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
6710	28	0.08	7/36	7 x 0.12	0.010	0.25	0.034	0.86
6711	26	0.13	7/34	7 x 0.16	0.010	0.25	0.038	0.97
6712	24	0.20	7/32	7 x 0.20	0.010	0.25	0.043	1.09
6713	22	0.32	7/30	7 x 0.25	0.010	0.25	0.049	1.24
6714	20	0.52	10/30	10 x 0.25	0.010	0.25	0.055	1.40
6715	18	0.82	16/30	16 x 0.25	0.010	0.25	0.067	1.70
6715S	18	0.82	Solid	Solid	0.010	0.25	0.059	1.50
6716	16	1.30	26/30	26 x 0.25	0.011	0.28	0.081	2.06
6717	14	2.08	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	3.30	65/30	65 x 0.25	0.012	0.30	0.117	2.97
6719	10	5.26	105/30	105 x 0.25	0.012	0.30	0.142	3.66

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

### EcoWire Plus

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	0.077	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

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

### 18 AWG (0.81) Wire

