

EcoWire™ Hook-Up Wire

Better performance, better for the environment



AlphaWire

Cables you trust. Service you deserve.

Recyclable wire for sustainable designs

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 patented Noryl insulation, a modified polyphenylene ether (mPPE) thermoplastic. Noryl 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.

- UL AWM 11028
- CSA AWM I A/B
- Oil resistant to Oil Res. 1
- VW-1 UL 1581
- Better performing than PVC
 - Up to 45% smaller diameter
 - Up to 40% lighter weight
 - Superior abrasion resistance

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 and recyclability.

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%.

Durability

Even with thinner walls, EcoWire's insulation offers 10x better abrasion and pinch resistance to PVC-based wire. Although thinner, the insulation is tougher.

Good temperature range

Wire and cable with mPPE insulation meet UL 1581 requirements for operation up to 105°C end-use temperature rating. With a wide temperature range, mPPE does not require such secondary processing operations as is required with cross-linked polyethylene.

Recyclable

EcoWire's mPPE thermoplastic insulation is more easily recycled as it does not contain hazardous materials.



Specifications

Materials

Conductors Stranded or solid tinned copper
Insulation Noryl modified polyphenylene ether

Electrical

Voltage 600 volts

Physical and Mechanical

Temperature Range -40°C to +105°C

Availability

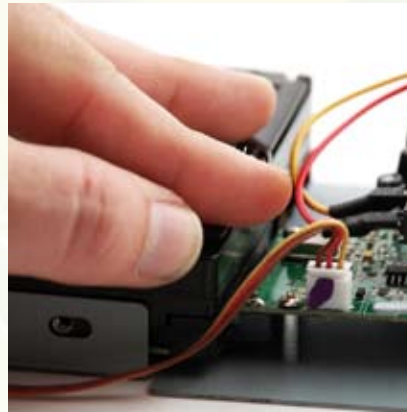
100 ft (30.5 m) and 1000 ft (305 m) lengths

Approvals

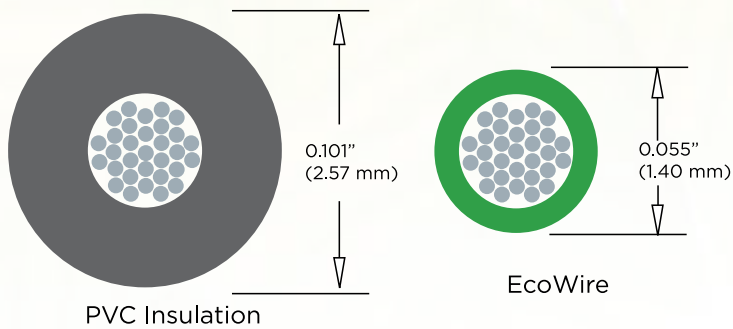
CSA AWM I A/B
 UL AWM Style 11028
 RoHS compliant
 REACH compliant
 VW-1 UL 1581

Colors

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



20 AWG (0.81 mm²) Wire



Part No.	Conductor Size		Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm ²	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

**The cables you trust.
The service you deserve.**

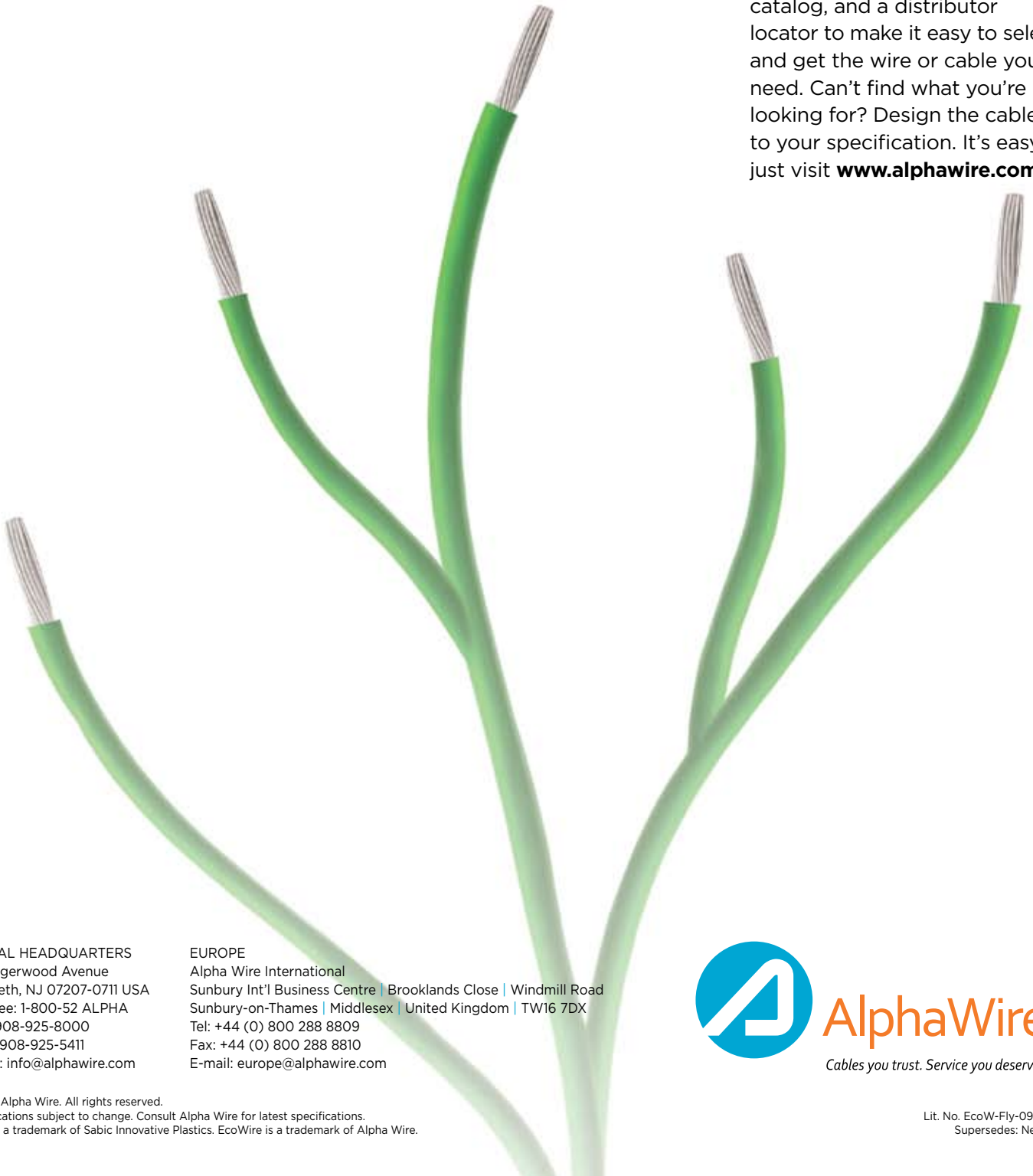
Every application is critical and cable and wire failure is not an option when the safety of your equipment and personnel is paramount. Specify Alpha products since the integrity of your system is only as robust as the products you use.

Superior availability

Alpha 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. Our products are available for same-day shipment, eliminating long lead times.

**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**!



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