

EcoWire™ Hook-Up Wire

Finally, a wire with performance that won't compromise the environment.



AlphaWire

Cables you trust. Service you deserve.

Recyclable wire for sustainable designs

EcoWire hook-up wires use flexible Noryl insulation to provide an environmentally friendly alternative to PVC. Noryl is a modified polyphenylene ether (mPPE) thermoplastic that is inherently lighter and tougher, and more flame resistance than PVC. The result is UL AWM wires that are smaller than their PVC-based counterparts. The non-halogenated insulation contains no heavy metal pigments, allowing it to help manufacturers to meet Waste Electrical and Electronic Equipment (WEEE) requirements.

- Recognized for use in U.S. and Canada
- Smaller, lighter than PVC counterparts
 - Up to 45% smaller diameter
 - Up to 40% lighter weight
- Non-halogenated
- UL AWM 11028
- CSA cUL AWM I A/B
- Excellent abrasion resistance, superior to PVC
- Oil resistant to Oil Res. 1

mPPE Insulation:
All the Advantages in Smaller, Lighter Wire

Environmentally friendly

mPPE 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. The diameter of equivalent wires can be 25% smaller with mPPE insulation.

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 around 25%.

Durability

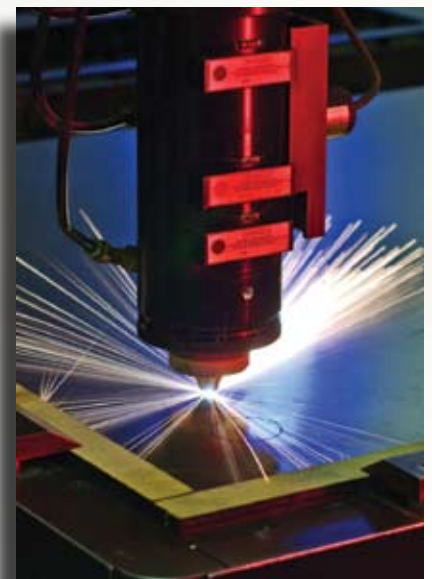
Even with the thinner walls, wires and cable with mPPE insulation offer 10x better abrasion and pinch resistance than PVC. Although thinner, the insulation is tougher.

Good temperature range

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

Recyclable

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



Specifications

Materials

Conductors Stranded or solid tinned copper
Insulation Noryl modified polyphenylene ether

Electrical

Voltage 600 volts

Physical & Mechanical

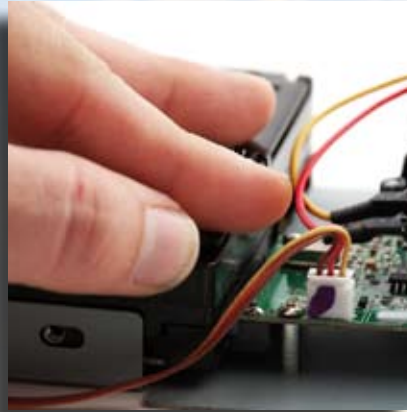
Temperature Range -40°C to +105°C

Approvals

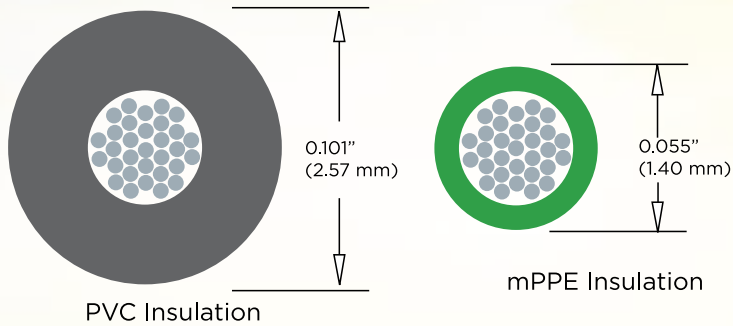
CSA cUL AWM I A/B FT1
 UL AWM Style 11028
 RoHS compliant
 REACH compliant

Physical & Mechanical

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

Superior availability

Alpha offers cables 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 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 cable 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 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**!

GLOBAL HEADQUARTERS
711 Lidgerwood Avenue
Elizabeth, NJ 07207-0711 USA
Toll Free: 1-800-52 ALPHA
Tel: 1-908-925-8000
Fax: 1-908-925-5411
E-mail: info@alphawire.com

EUROPE
Alpha Wire International
Sunbury Int'l Business Centre | Brooklands Close | Windmill Road
Sunbury-on-Thames | Middlesex | United Kingdom | TW16 7DX
Tel: +44 (0) 800 288 8809
Fax: +44 (0) 800 288 8810
E-mail: europa@alphawire.com

