

Hook-Up Wire



Everything you need to hook up anything

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
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
mPPE	Modified polyphenylene ether	-40°C to +105°C	Modified polyphenylene ether insulation (mPPE) Lighter, tougher, and more durable than PVC Meets RoHS and WEEE requirements; 100% recyclable 45% smaller diameter, 40% lighter, 10x abrasion resistance of PVC
mPPE	Modified polyphenylene ether	-40°C to +110°C	All the environmental benefits and abrasion resistance characteristics of EcoWire; 100% recyclable Excellent resistance to oils, chemicals, solvents, and fuels Meets ISO 6722 for thin-wall and ultra-thin wall wire

Voltage	Insulation	Wire Range (AWG)		Approvals		Temperature Range
		Stranded	Solid	UL	CSA	
UL/CSA						
150	XL-PVC	26 - 16	—	UL 1429	CSA AWM I A/B FT1	-55°C to +105°C
	XLPE	22 - 18	—	UL 3265	CSA I A/B FT1	-55°C to +125°C
300	PVC	30 - 16	24 - 16	UL AWM 1569 UL AWM 1007	CSA TR-64	-40°C to +105°C -40°C to +80°C
	SR-PVC	30 - 16	—	AWM 1061	CSA I A/B FT1	-10°C to +80°C
	XL-PVC	26 - 16	—	UL 1430	CSA REW XL-PVC	-55°C to +105°C
	XLPE	22 - 18	—	UL 3266	CSA CL 1252 XLPE	-55°C to +125°C
	XLPE	22 - 16	—	UL 3199	CSA CL1054	-55°C to +125°C
600	PTFE	24 - 8	—	UL 1180		-60°C to +200°C
	PVC	24 - 10	26 - 10	UL AWM 1015, 1230 UL MTW, THW, TW	CSA TEW-105	-20°C to +105°C
		8 - 4/0	—	UL 1242, 1284		-20°C to +105°C
	XLPE	18 - 10	—	UL 3271	CSA CL 1251 XLPE	-55°C to +125°C
10,000+	XLPE	20 - 2/0	—	UL 3173, 3195, 3196, 3300 SIS Rated		-55°C to +125°C
	Silicone	22 - 4/0	—	UL 3212, 3213, 3214	CSA AWM I A/B	-40°C to +150°C
	Silicone	22 - 2	—	UL 3239		-40°C to +150°C
Military						
250	PTFE	32 - 22	30 - 26	MIL-W-16787/6 (Type ET)		-60°C to +200°C
600	XL-PVC	26 - 16	—	MIL-W16878/1 (Type B)		-55°C to +105°C
600	PVC	32 - 14	—	MIL-W16878/1 (Type B)		-55°C to +105°C
	PVC	14 - 8	—	MIL-W-76B Type HW		-20°C to +80°C
	PTFE	30 - 10	26 - 18	MIL-W-16878/4 (Type E)		-60°C to +200°C
1000	XL-PVC	26 - 16	—	MIL-W16878/1 (Type C)		-55°C to +105°C
	PVC	24 - 12	24 - 18	MIL-W16878/1 (Type C)		-40°C to +80°C
	XLPE	22 - 18	—	MIL-W16878/1 (Type C)		-55°C to +105°C
	PTFE	24 - 8	—	MIL-W-17878/5 (Type EE)		-60°C to +200°C
3000	XLPE	18 - 10	—	MIL-W16878/1 (Type D)		-55°C to +105°C
Wire Wrap						
	PDVF	—	30 - 24	UL 1422, 1423		-40°C to +125°C
	ETFE	—	30 - 24	UL 1516, 1523		-70°C to +150°C
Ribbon Cable: 5 to 30 Conductors						
150/300	PVC	26 - 22	—	UL 2713, 2555		-55°C to +80°C
600/1000	PVC	26 - 22	—	MIL-W16878/1 (Types B & C)		-55°C to +105°C
Bus Bar Wire						
	—	—	30 - 12	A-A59551		

For more information about these and additional Alpha Wire hook-up wire products, and to request free samples, call 1-800-52 ALPHA or visit www.alphawire.com.

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 hook-up wire for harsh environments and crucial applications; since the integrity of your system is only as robust as the products you use.

Superior availability

Alpha offers hook-up wire 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 for your critical application is essential to overall system reliability, performance, and safety. So we make it easy for you select the right Alpha hook-up wire 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**!

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