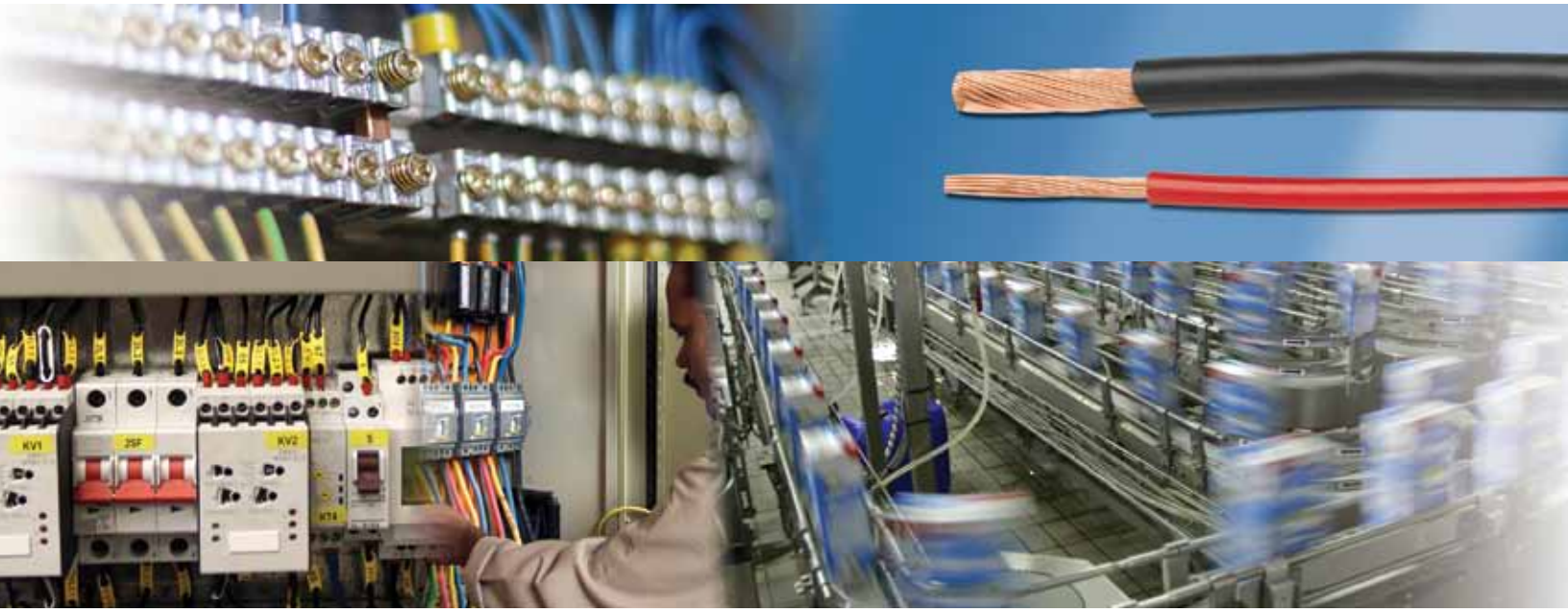
Hook-Up Wire



AlphaWire

Cables you trust. Service you deserve.

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	—		CSA AWM I A/B FT1	-55°C to +105°C
				UL 1429		-55°C to +80°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		-40°C to +105°C
				UL AWM 1007		-40°C to +80°C
					CSA TR-64	-40°C to +90°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
	PTFE	24 – 8	—	UL 1180		-60°C to +200°C
600	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
	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
10,000+	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		

Call to Order: (800) 339-8993
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