



EMPLOYEE OWNED

An Employee Owned Company
Manufacturers of High Temperature Wire & Cable
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Quirk Wire Co. Manufacturing Capability

Quirk Wire Company is a global leader in high temperature and high performance cable design and manufactures a wide range of wire and cable for various industrial requirements. Applications include internal wiring for heater elements, down-hole systems, and critical applications for nuclear and military markets.

Quirk Wire Co.'s state of the art, HIGH TEMPERATURE/HIGH PERFORMANCE wire and cable manufacturing facility is Employee Owned. Quirk Wire is ISO 9001:2015 certified and conforms to MIL-I-45208 for 100% source traceability with extensive approvals of UL, CSA, CENELEC, CE, M22759, M27500, MIL-W-16878, NEMA HP3 and NEMA HP4 Standards.

Manufacturing Capabilities:

- AWG Sizes: From 4 AWG thru 30 AWG (TPC, BC, SPC, NPC, Alloy, etc.)
- Insulation: RoHS and REACH compliant, PTFE, FEP, PFA, ETFE and QCA 300. In addition to extrusion, we have wrapping capabilities for PTFE, expanded PTFE, Polyimide, Mica and Fiberglass.
- Shielding: Polyimide Foil, Mylar Foil, Metallic Braiding (Stainless Steel, Silver, Nickel, Tinned etc.)
- Jacketing: PTFE, FEP, PFA, ETFE, QCA 300, PUR, and PVC
- Temperature Rating: Fluoropolymers -80C to +300C, Mica and Glass Braid to +450C
- Other Services: Bonding, Etching, Printing, Striping.

Product Offerings:

- Aerospace and Aviation wires
- Coaxial cables, RG-Type 50ohm, 75ohm, 95ohm
- High Voltage and Corona Insulations
- Ignition wires
- Lo-Noise cables for manufacturers of Transducers, Medical and Vibration Test Equipment
- Custom stranded resistance wires
- Thermocouple cables of all types
- Ultra high temperature cables (MGT, TGGT & TGT)
- Cables for use in gas turbines
- Customer Design: Quirk Wire manufactures special and standard design cables in smaller quantities
- Extensive stock of hookup wire and specials

Services: Personalized Exceptional Service since 1978, no voicemails or phone trees. Customer Stock Management (JIT, Kanban), Testing Facilities, Custom Design and Rapid Prototyping is our specialty.

Industries served: Military, Instrumentation, Temperature Sensing, Wire Harness Assembly Houses, Process Heating and Control.

To view our online catalog or to find out more about our product offerings, please visit us on the web at: www.quirkwire.com



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MIL-W-16878 PTFE and NEMA HP3 and HP4 Wire: Quirk wire manufactures the following part numbers FEP Extruded, PTFE extruded and Wrapped:

<u>Type E 600V RMS</u>	<u>Type EE 1000V RMS</u>	<u>Type ET 250V RMS</u>
M16878/4 SPC Extruded	M16878/5 SPC Extruded	M16878/6 SPC Extruded
M16878/21 SPC Wrapped	M16878/22 SPC Wrapped	M16878/20 SPC Wrapped
M16878/25 NPC Extruded	M16878/27 NPC Extruded	M16878/23 NPC Extruded
M16878/11 FEP Extruded	M16878/12 FEP Extruded	M16878/13 FEP Extruded

M22759 Extruded PTFE Insulated Wire:

600 Volts:

- M22759/11 – Silver Plated Copper – 200°C
- M22759/12 – Nickel Plated Copper – 260°C
- M22759/22 – Silver Plated Copper Alloy – 200°C
- M22759/23 – Nickel Plated Copper Alloy – 260°C

1000 Volts:

- M22759/9 – Silver Plated Copper – 200°C
- M22759/10 – Nickel Plated Copper – 260°C
- M22759/20 – Silver Plated Copper Alloy – 200°C
- M22759/21 – Nickel Plated Copper Alloy – 260°C

UL Rated Wire:

UL Style	AVG Wall	AWG	Volts	TEMP °C	Conductors
1213	.008	30-16	N/S	105°	SPC, NPC
1180	.013	30-10	300	200°	SPC, NPC
1815	.013	30-10	300	250°	NPC
1199	.020	30-10	600	200°	SPC, NPC
1659	.020	26-10	600	250°	NPC

M27500 Shielded and Jacketed Cables:

	Conductor Metal	Voltage	Temperature
M22759/9	LE SPC	1000 Volts	200°C
M22759/10	LH NPC	1000 Volts	260°C
M22759/11	RC SPC	600 Volts	200°C
M22759/12	RE NPC	600 Volts	260°C
M22759/20	TK SPC Alloy	1000 Volts	200°C
M22759/21	TL NPC Alloy	1000 Volts	260°C
M22759/22	TM SPC Alloy	600 Volts	200°C
M22759/23	TN NPC Alloy	600 Volts	260°C

All M27500 cables can be multiconductor shielded and jacketed.

MIL-DTL-55021D:

Symbol Type	Wire Specification	Covering of Finished Cable
E	NEMA HP 3	
EE	NEMA HP 3	
U		Unjacketed and Unshielded
F		FEP Jacket
T		PTFE Jacket
S		Shielded and unjacketed
SF		Shielded and covered with FEP Jacket
STW		Shielded and covered with wrapped PTFE

Please call the office for any other design, UL or MIL Spec inquires that you may have.