

Heatsense Extrusion Capabilities		
Low Temperature	PVC -30°C to +70°C Insulation and Sheathing	AWG30 to AWG10
	PVC +105°C Insulation and Sheathing	
	PVC Flame Retardant Insulation and Sheathing	
	Polyethylene -55°C to +70°C Insulation	
	Polyurethane -65°C to +70°C Sheathing	
	LSOH-FR -25°C to +100°C Insulation and Sheathing	
Medium Temperature	ETFE -75°C to +150°C Insulation and Sheathing	AWG32 to AWG2
	ECTFE -75°C to +150°C Insulation and Sheathing	
	PVDF -75°C to +150°C Insulation and Sheathing	
	PEI -60°C to +150°C Insulation and Sheathing	
High Temperature	PFA -75°C to +260°C Insulation and Sheathing	AWG32 to AWG2
	MFA -75°C to +250°C Insulation and Sheathing	
	FEP -75°C to +200°C Insulation and Sheathing	

Material	Insulation/Sheath	General Temp °C	Comments
PFA	Both	-75°C to +260°C	High temperature, chemical resistant
MFA	Both	-75°C to +250°C	High temperature, chemical resistant
FEP	Both	-75°C to +200°C	High temperature, chemical resistant
ETFE	Both	-75°C to +150°C	Tough, medium temperature
ECTFE	Insulation	-75°C to +150°C	Tough, fire resistant, medium temperature
PTFE	Both	-75°C to +260°C	High temperature, chemical resistant
PEEK	Both	-55°C to +230°C	Currently under development
POLYIMIDE	Both	-75°C to +200°C	Compact lightweight high temperature
POLYIMIDE-ENAMEL	Both	-75°C to +300°C	High radiation resistance
POLYIMIDE-PTFE	Both	-75°C to +260°C	Compact lightweight high temperature
TPE-E	Both	-40°C to +150°C	High moisture and oil resistance
PVDF	Both	-75°C to +150°C	Chemical and radiation resistance
PEI	Both	-60°C to +150°C	LSOH radiation resistant
PVC	Both	-30°C to +105°C	General jacketing use
LSOH-FR	Both	-25°C to +100°C	LSOH Insulation / sheathing radiation resistance
PE	Insulation	-55°C to +70°C	Possible but rarely used
TPU	Sheath	-65°C to +70°C	Flexible, tough, abrasion resistant
GLASS-WHIP	Insulation	-75°C to +350°C	Varnish and/or PTFE impregnated
GLASS-WHIP/BRAID	Insulation	-75°C to +350°C	Varnish and/or PTFE impregnated
GLASS-WHIP	Insulation	-75°C to +720°C	Varnish and/or PTFE impregnated
GLASS-WHIP/BRAID	Insulation	-75°C to +720°C	Varnish and/or PTFE impregnated
TAPE-BRAID	Both	-75°C to +350°C	Varnish and/or PTFE impregnated
TAPE-BRAID	Both	-75°C to +450°C	Varnish and/or PTFE impregnated
TAPE-BRAID	Both	-75°C to +720°C	Varnish and/or PTFE impregnated
INTEMP 250	Insulation	-75°C to +260°C	PFA / Mica / Glass braid + silicone varnish
HI-TEMP QUARTZ	Both	-75°C to +1050°C	Mica / Quartz / Quartz fire resistant
HI-TEMP CERAMIC	Both	-50°C to +1250°C	Mica / Ceramic fire resistant



Material	Use - Conductor
Silver Plated Copper Wire	Generally up to +205°C
Nickel Plated Copper Wire	Generally up to +300°C
Tin Plated Copper Wire	Generally up to +150°C
Plain Copper Wire	Generally up to +135°C
Pure Nickel Wire	Generally up to +750°C
Type K Thermocouple	Class 1 and 2, special and standard tolerances. Solid and stranded. Extension and compensating versions, available in all insulation types, and all constructions. Special ultra-tight tolerance Heatsense AccuTemp™ calibrated to ½ the tolerance of Class 1 and Special tolerance thermocouple conductors.
Type J Thermocouple	
Type T Thermocouple	
Type E Thermocouple	
Type N Thermocouple	
Type RCA/RCB, SCA/SCB	Extension and compensating wires.

Material	Use – Braided Screen
Silver Plated Copper Wire	Generally up to +205°C Screen
Nickel Plated Copper Wire	Generally up to +300°C Screen and Armour
Tin Plated Copper Wire	Generally up to +150°C Screen and Armour
Plain Copper Wire	Generally up to +135°C Screen
Stainless Steel	Generally up to +750°C Armour

Heatsense offer a range of miniature, or “micro” wire and cables in gauges as low as AWG37 and wall thicknesses, in Fluoropolymer materials as low as 6 microns. Request details.

Heatsense offer a range of Silicone Rubber Insulated and Sheathed wires and cables over standard materials as well as Thermocouples. Request details.

All core material types can be assembled as multi-core constructions, multi-core screened and or armoured, inner and outer jackets.

