

ANSI color code shown To order IEC color code visit omega.com

UL Listed Twisted Shielded Extension Grade Thermocouple Wire

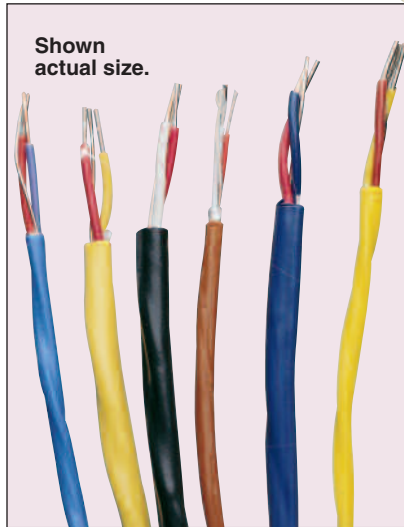
TWSH-UL Wire Starts at **\$245** 1000' Spool



- ✓ UL Listed Type PLTC, 300 V; Listed Under UL Subject 13, File E153789
- ✓ Extruded PVC Single Conductor and Duplex Insulation
- ✓ ANSI Color Coded
- ✓ Aluminized Polyester Shield with Drain Wire Reduces Electrical Noise
- ✓ Resistant to Moisture, Abrasion, Chemicals, and UV Light
- ✓ Optional Stainless Steel and Tinned Copper Wire Overbraiding

OMEGA® twisted/shielded thermocouple wire is ideal for systems sensitive to induced voltages and electrical noise. The wire conductors are insulated with color-coded PVC, then twisted with a tin/copper drain wire. Next, an aluminized polyester tape is wrapped around the wires, followed by a final layer of PVC coating. The wire is UL listed for Power Limited Tray Cable (PLTC) applications.

Note: Overbraiding wire invalidates UL rating.



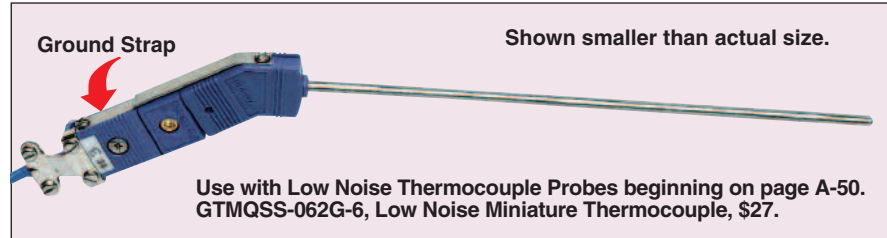
Shown actual size.

Wire is shielded and supplied with an integral tin/copper drain wire

For Longer Lengths Consult Sales for Price and Delivery!

Spool Pricing Guidelines	
Multiply 300 m or 1000' spool price by multiplier and round to the nearest dollar. Consult Sales for price quote.	
7.5 m or 25'	= Price from Chart x 0.0625
15 m or 50'	= Price from Chart x 0.1
30 m or 100'	= Price from Chart x 0.175
60 m or 200'	= Price from Chart x 0.3
150 m or 500'	= Price from Chart x 0.5
300 m or 1000'	= Price from Chart x 1.0

Examples:
 50' (15 m) spool of KX wire, 16 gage (EXPP-K-16-TWSH-UL), (Price = \$675 for 1000'):
50' Spool = \$675 x 0.1 = \$67.50 = \$68.



Ground Strap

Shown smaller than actual size.

Use with Low Noise Thermocouple Probes beginning on page A-50. GTMQSS-062G-6, Low Noise Miniature Thermocouple, \$27.

Note: Published prices are based on market value at time of printing and are subject to change due to Nickel surcharges, Chromium and precious-metal market fluctuations.

Extension Grade
CHROME[®]
ALOMEGA[®]
 Duplex **KX**
 ANSI Type KX

All models shown smaller than actual size.

ANSI Color Code: Positive Wire, Yellow;
 Negative Wire, Red; Overall, Yellow

**MOST POPULAR
 MODELS HIGHLIGHTED!**

Model Number	AWG	Bare Conductor Diameter		Nominal Insulation Thickness				Nominal Overall Size		Approx Ship Wt kg/300 m (lb/1000') spool	Price 1000'
		inches	mm	Conductor		Overall		inches	mm		
EXPP-K-16-TWSH-UL	16	0.051	1.3	0.020	0.51	0.035	0.89	0.290	7.4	22.2 (49)	\$1080
EXPP-K-16S-TWSH-UL	16S	0.060	1.5	0.020	0.51	0.035	0.89	0.290	7.4	22.7 (50)	1750
EXPP-K-20-TWSH-UL	20	0.032	0.81	0.015	0.38	0.035	0.89	0.225	5.7	12.7 (28)	670
EXPP-K-20S-TWSH-UL	20S	0.038	0.97	0.015	0.38	0.035	0.89	0.230	5.7	13.6 (30)	780

Ordering Example: EXPP-K-20-TWSH-UL-1000, 1000' of extension grade thermocouple wire, 20 gage, type KX, twisted shielded, UL listed, \$670.

Extension Grade
 Iron/Constantan
 Duplex **JX**
 ANSI Type JX

ANSI Color Code: Positive Wire, White; Negative Wire, Red; Overall, Black

Model Number	AWG	Bare Conductor Diameter		Nominal Insulation Thickness				Nominal Overall Size		Approx Ship Wt kg/300 m (lb/1000') spool	Price 1000'
		inches	mm	Conductor		Overall		inches	mm		
EXPP-J-16-TWSH-UL	16	0.051	1.3	0.020	0.51	0.035	0.89	0.290	7.4	22.2 (49)	\$645
EXPP-J-16S-TWSH-UL	16S	0.060	1.5	0.020	0.51	0.035	0.89	0.290	7.4	22.7 (50)	1070
EXPP-J-20-TWSH-UL	20	0.032	0.81	0.015	0.38	0.035	0.89	0.225	5.7	12.7 (28)	290
EXPP-J-20S-TWSH-UL	20S	0.038	0.97	0.015	0.38	0.035	0.89	0.230	5.8	13.6 (30)	455

Ordering Example: EXPP-J-20-TWSH-UL-1000, 1000' of extension grade thermocouple wire, twisted shielded, type JX, 20 gage, UL listed, \$290.

Extension Grade
 Copper/Constantan
 Duplex **TX**
 ANSI Type TX

ANSI Color Code: Positive Wire, Blue; Negative Wire, Red; Overall, Blue

Model Number	AWG	Bare Conductor Diameter		Nominal Insulation Thickness				Nominal Overall Size		Approx. Ship Wt kg/300 m (lb/1000') spool	Price 1000'
		inches	mm	Conductor		Overall		inches	mm		
EXPP-T-16-TWSH-UL	16	0.051	1.3	0.020	0.51	0.035	0.89	0.290	7.4	22.2 (49)	\$645
EXPP-T-16S-TWSH-UL	16S	0.060	1.5	0.020	0.51	0.035	0.89	0.290	7.4	22.7 (50)	1070
EXPP-T-20-TWSH-UL	20	0.032	0.81	0.015	0.38	0.035	0.89	0.225	5.7	12.7 (28)	290
EXPP-T-20S-TWSH-UL	20S	0.038	0.97	0.015	0.38	0.035	0.89	0.230	5.8	13.6 (24)	455

Ordering Example: EXPP-T-20-TWSH-UL-500, 500' of extension grade thermocouple wire, twisted shielded, type TX, 20 gage, UL listed, \$290 X 0.5 = \$145.

Extension Grade
CHROME[®]
 Constantan
 Duplex **EX**
 ANSI Type EX

ANSI Color Code: Positive Wire, Purple; Negative Wire, Red; Overall, Purple

Model Number	AWG	Bare Conductor Diameter		Nominal Insulation Thickness				Nominal Overall Size		Approx. Ship Wt kg/300 m (lb/1000') spool	Price 1000'
		inches	mm	Conductor		Overall		inches	mm		
EXPP-E-16-TWSH-UL	16	0.051	1.3	0.020	0.51	0.035	0.89	0.290	7.4	22.2 (49)	\$1095
EXPP-E-16S-TWSH-UL	16S	0.060	1.5	0.020	0.51	0.035	0.89	0.290	7.4	22.7 (50)	1775
EXPP-E-20-TWSH-UL	20	0.032	0.81	0.015	0.38	0.035	0.89	0.225	5.7	12.7 (28)	800
EXPP-E-20S-TWSH-UL	20S	0.038	0.97	0.015	0.38	0.035	0.89	0.230	5.8	13.6 (24)	805

Ordering Example: EXPP-E-20-TWSH-UL-1000, 1000' of extension grade thermocouple wire, twisted shielded, type EX, 20 gage, UL listed, \$800.

Note: Published prices are based on market value at time of printing and are subject to change due to Nickel surcharges, Chromium and precious-metal market fluctuations.





UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters