

UL Listed Twisted Shielded Extension Grade Thermocouple Wire

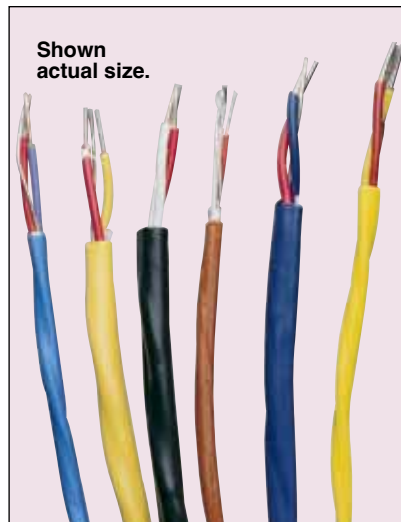
**TWSH-UL Wire
1000' Spool**



- ✓ **UL Listed Type PLTC, Listed Under UL Subject 13, File E153789**
- ✓ **Extruded PVC Single Conductor and Duplex Insulation**
- ✓ **ANSI and IEC 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**
- ✓ **Available in Standard Spool Lengths: 25 ft, 50 ft, 100 ft, 200 ft, 500 ft, and 1000 ft or 7.5 m, 30 m, 60 m, 150 m, and 300 m**

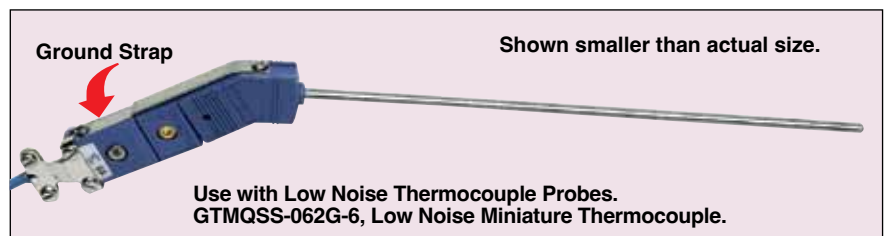
OMEGA twisted/shielded thermocouple wire is ideal for systems sensitive to induced voltages and electrical noise. The wire conductors are insulated with color-coded PVC, then twisted with a tin/copper drain wire. Next, an aluminized polyester tape is wrapped around the wires, followed by a final layer 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.



Use with Low Noise Thermocouple Probes.
GTMQSS-062G-6, Low Noise Miniature Thermocouple.

ANSI Offering

Extension Grade
CHROMEGA®
ALOMEGA®
Duplex
ANSI Type KX

KX

All models shown smaller than actual size.



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

To Order Visit omega.com/expp-k-twsh-ul for Pricing and Details

Model Number	AWG	Bare Conductor Diameter		Nominal Insulation Thickness				Nominal Overall Size		Approx Ship Wt kg/300 m (lb/1000') spool
				Conductor		Overall				
		inches	mm	inches	mm	inches	mm	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)
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)
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)
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)

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

Extension Grade
Iron/Constantan
Duplex
ANSI Type JX

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
				Conductor		Overall				
		inches	mm	inches	mm	inches	mm	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)
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)
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)
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)

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

Extension Grade
Copper/Constantan
Duplex
ANSI Type TX

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
				Conductor		Overall				
		inches	mm	inches	mm	inches	mm	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)
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)
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)
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)

Ordering Example: EXPP-T-20-TWSH-UL-500, 500' of extension grade thermocouple wire, twisted shielded, type TX, 20 gage, UL listed.

Extension Grade
CHROMEGA®/
Constantan
Duplex ANSI Type EX

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
				Conductor		Overall				
		inches	mm	inches	mm	inches	mm	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)
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)
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)
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)

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

IEC Offering

Extension Grade
CHROMEGA®-
ALOMEGA®
Duplex
IEC Type **KX**

IEC Color Code: Green (+), White (-), Green overall

To Order Visit omega.com/exp-p-k-twsh-ul for Pricing and Details

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

* Add spool length. For example: EXPP-KI-16-TWSH-UL-30M

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

IEC Color Code: Black (+), White (-), Black overall

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

* Add spool length. For example: EXPP-JI-16-TWSH-UL-30M

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

IEC Color Code: Brown (+), White (-), Brown overall

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

* Add spool length. For example: EXPP-TI-16-TWSH-UL-30M

Extension Grade
CHROMEGA®/
Constantan
Duplex IEC Type **EX**

IEC Color Code: Purple (+), White (-), Purple overall

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

* Add spool length. For example: EXPP-EI-16-TWSH-UL-30M

NOTE

16 gage stranded base wire uses 16 gage stranded uninsulated drain wire.

16 gage solid base wire uses 18 gage solid uninsulated drain wire.

20 gage stranded base wire uses 22 gage stranded uninsulated drain wire.

20 gage solid base wire uses 22 gage solid uninsulated drain wire.

24 gage solid base wire uses 24 gage solid uninsulated drain wire.

24 gage stranded base wire uses 24 gage stranded uninsulated drain wire.

All stranded drain wire is 7 strands

