

ANSI  
color  
code  
shown

# UL Listed Twisted Shielded Extension Grade Thermocouple Wire

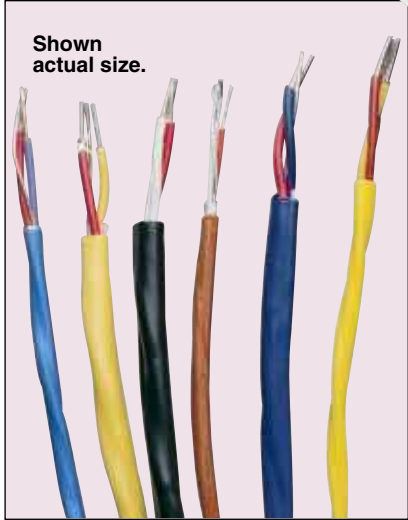
TWSH-UL Wire  
1000' Spool



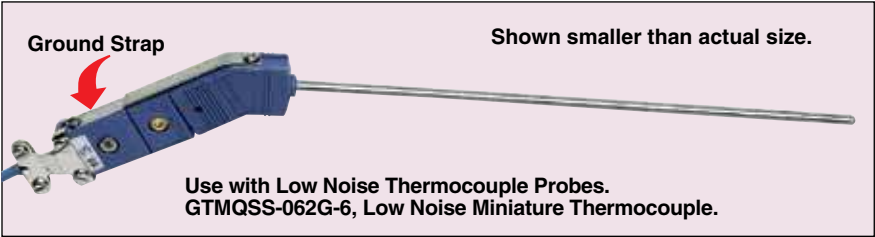
- ✓ UL Listed Type PLTC, 300V; Listed Under UL Subject 13, File E153789
- ✓ Extruded PVC Single Conductor and Duplex Insulation
- ✓ ANSI Color Coded
- ✓ Aluminized Polyester Shield with Drain Wire Reduces Electrical Noise
- ✓ Resistant to Moisture, Abrasion, Chemicals, and UV Light
- ✓ Optional Stainless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

NEWPORT® 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.

**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 x 0.0625
15 m or 50'	=	Price x 0.1
30 m or 100'	=	Price x 0.175
60 m or 200'	=	Price x 0.3
150 m or 500'	=	Price x 0.5
300 m or 1000'	=	Price x 1.0

**Examples:**  
50' (15 m) spool of KX wire, 16 gage (EXPP-K-16-TWSH-UL),  
50' Spool = price x 0.1 for additional cost.

**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  
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 [newportUS.com/TWSH-UL](http://newportUS.com/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.

**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.