

UL Listed Twisted Shielded Extension Grade Thermocouple Wire

ANSI
color
code
shown

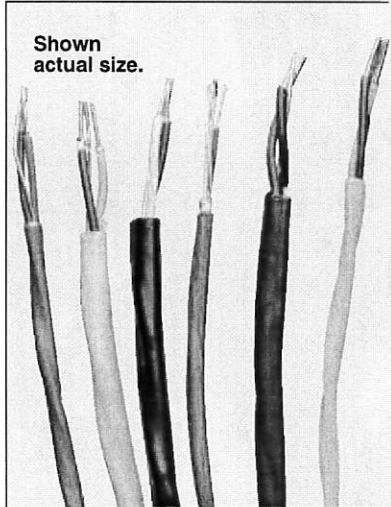
TWSH-UL Wire
1000' Spool



- ✓ 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.

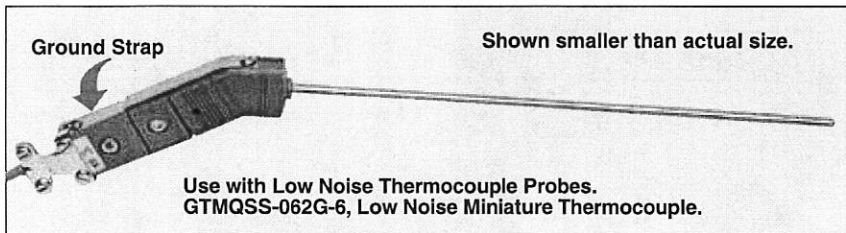


Shown actual size.

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

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



Ground Strap

Shown smaller than actual size.

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

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 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
		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)
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
		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)
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
		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)
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
		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)
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.

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