

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

UL Listed Twisted Shielded Extension Grade Thermocouple Wire

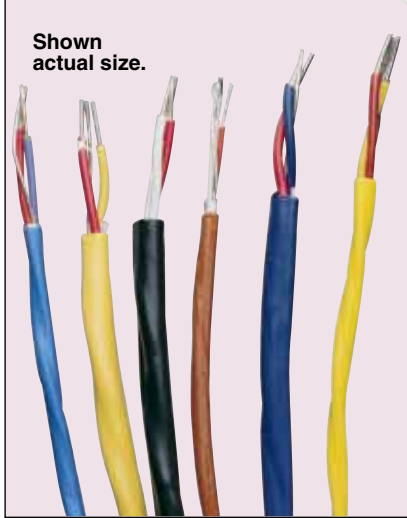
TWSH-UL Wire
1000' Spool



- ✓ 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

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.

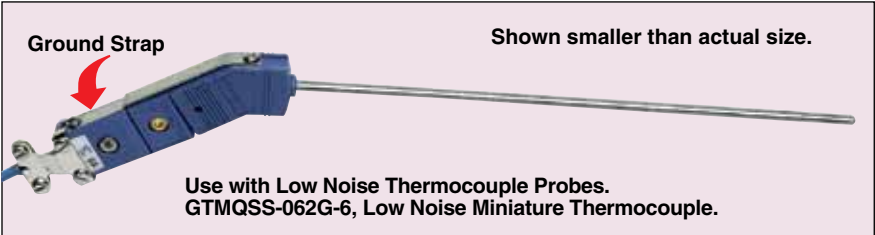
Note: Overbraiding wire invalidates UL rating.



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 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 |



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®** **KX**
 Duplex
 ANSI Type 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 **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 |
|--------------------|-----|-------------------------|------|------------------------------|------|---------|------|----------------------|-----|--|
| | | | | 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 **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 |
|--------------------|-----|-------------------------|------|------------------------------|------|---------|------|----------------------|-----|--|
| | | | | 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 **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 |
|--------------------|-----|-------------------------|------|------------------------------|------|---------|------|----------------------|-----|--|
| | | | | 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.