

Multipair Extension Cable

Common extension wire types are made up into standard multipair cables. Each conductor is covered with a polyvinyl jacket, nominal 0.38 mm (0.015 ") thick, and the pairs are individually twisted. Clear polyester film/plastic sheet tape is then wrapped around the bundle of twisted pairs. A stranded tinned-copper drain wire is laid over the bundle, which is covered with aluminum-backed polyester film/plastic sheet tape to serve as an electro-static shield. The drain wire provides a simple mechanical termination for the shield. The cable is then covered with a jacket of polyvinyl approximately 1.1 mm (0.045 ") thick.

As an added convenience, each standard cable contains an extra orange polyvinyl-clad stranded-copper wire for use as a ground connection, or to complete a communication or signal circuit. Standard cables are color-coded. The individual pairs are marked 1-1, 2-2, etc., for easy identification. Insulation will withstand temperatures up to 105 °C (221 °F).

Note: Metric dimensions are approximate.

Overbraiding

Any standard item can be overbraided with tinned copper, stainless steel or Inconel upon request.

Special Orders

Multipair extension cable can be made to order with insulation to suit your installation requirements. Consult Sales Department on pricing and quantity minimums.

Multipair Pricing

Multipairs can be purchased in any quantity [minimum length 7.5 m (25')].

Minimum Bending Radius

4 pair cable: 6 times overall diameter

8 pair cable: 10 times overall diameter

Over 8 pair cable:

14 times overall diameter

Custom Design - FEP Insulated Multipair Cable, Overbraided Cable and 2 Pair Cable Designs Available, Consult Sales.

For Higher Temperature and More Severe Environments FEP Insulation and Individually Shielded Pairs are Available!

Call 1-800-TC-OMEGA for pricing and availability, or visit omega.com/multipair



Orange colored polyvinyl-clad stranded-copper wire (24 awg, 7 x 32, insulation nominal OD = 0.054 "/1.37 mm) for use as a ground connection or to complete a communication signal circuit.

ANSI color code shown

To order IEC color code visit omega.com

CHROMEPA®/ALOMEGA® ANSI TYPE KX

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

To Order

| No. of Pairs (Twisted) | 20 AWG, Polyvinyl | | | 24S AWG (7 x 32), Polyvinyl | | |
|------------------------|---------------------------|--------------------------------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|
| | Model No. ANSI Color Code | Nominal Overall Size mm (inch) | Ship Wt kg/300 m (lb/1000') | Model Number | Nominal Overall Size mm (inch) | Ship Wt kg/300 m (lb/1000') |
| 2 | | | | 2KX24SPP | 7.3 mm (0.29") | 23 (51) |
| 4 | 4KX20PP | 10 mm (0.39") | 39 (85) | 4KX24SPP | 8.4 mm (0.330") | 25 (55) |
| 8 | 8KX20PP | 12 mm (0.48") | 61 (135) | 8KX24SPP | 11 mm (0.420") | 39 (85) |
| 12 | 12KX20PP | 15 mm (0.58") | 89 (195) | 12KX24SPP | 14 mm (0.530") | 52 (115) |
| 16 | 16KX20PP | 16 mm (0.65") | 111 (245) | 16KX24SPP | 15 mm (0.600") | 73 (160) |
| 20 | 20KX20PP | 17 mm (0.68") | 129 (285) | 20KX24SPP | 16 mm (0.625") | 86 (190) |
| 24 | 24KX20PP | 20 mm (0.77") | 154 (340) | 24KX24SPP | 17 mm (0.650") | 100 (220) |

IRON/CONSTANTAN - ANSI TYPE JX

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

| No. of Pairs (Twisted) | 20 AWG, Polyvinyl | | | 24S AWG (7 x 32), Polyvinyl | | |
|------------------------|---------------------------|--------------------------------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|
| | Model No. ANSI Color Code | Nominal Overall Size mm (inch) | Ship Wt kg/300 m (lb/1000') | Model Number | Nominal Overall Size mm (inch) | Ship Wt kg/300 m (lb/1000') |
| 4 | 4JX20PP | 10 mm (0.39") | 39 (85) | 4JX24SPP | 8.4 mm (0.330") | 25 (55) |
| 8 | 8JX20PP | 12 mm (0.48") | 61 (135) | 8JX24SPP | 11 mm (0.420") | 39 (85) |
| 12 | 12JX20PP | 15 mm (0.58") | 89 (195) | 12JX24SPP | 14 mm (0.530") | 52 (115) |
| 16 | 16JX20PP | 16 mm (0.65") | 111 (245) | 16JX24SPP | 15 mm (0.600") | 73 (160) |
| 20 | 20JX20PP | 17 mm (0.68") | 129 (285) | 20JX24SPP | 16 mm (0.625") | 86 (190) |
| 24 | 24JX20PP | 20 mm (0.77") | 154 (340) | 24JX24SPP | 17 mm (0.650") | 100 (220) |

COPPER/CONSTANTAN - ANSI TYPE TX

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

| No. of Pairs (Twisted) | 20 AWG, Polyvinyl | | | 24S AWG (7 x 32), Polyvinyl | | |
|------------------------|---------------------------|--------------------------------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|
| | Model No. ANSI Color Code | Nominal Overall Size mm (inch) | Ship Wt kg/300 m (lb/1000') | Model Number | Nominal Overall Size mm (inch) | Ship Wt kg/300 m (lb/1000') |
| 4 | 4TX20PP | 10 mm (0.39") | 39 (85) | 4TX24SPP | 8.4 mm (0.330") | 25 (55) |
| 8 | 8TX20PP | 12 mm (0.48") | 61 (135) | 8TX24SPP | 11 mm (0.420") | 39 (85) |
| 12 | 12TX20PP | 15 mm (0.58") | 89 (195) | 12TX24SPP | 14 mm (0.530") | 52 (115) |
| 16 | 16TX20PP | 16 mm (0.65") | 111 (245) | 16TX24SPP | 15 mm (0.600") | 73 (160) |
| 20 | 20TX20PP | 17 mm (0.68") | 130 (285) | 20TX24SPP | 16 mm (0.625") | 86 (190) |
| 24 | 24TX20PP | 20 mm (0.77") | 1552 (340) | 24TX24SPP | 17 mm (0.650") | 100 (220) |

Ordering Example: 4TX20PP-100, 100' of 4 pair twisted Copper/Constantan multipair extension cable, ANSI type TX.

