

# 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 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')].

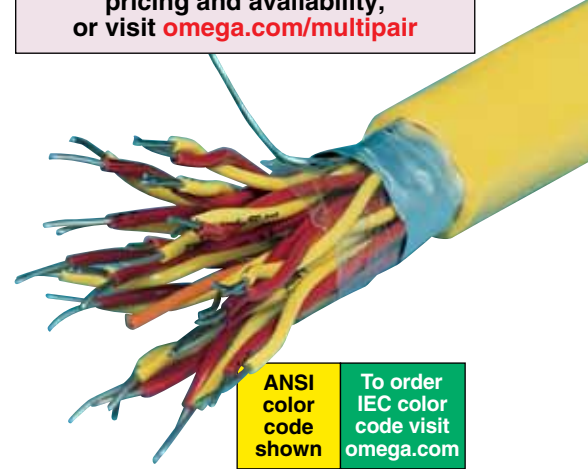
### Minimum Bending Radius

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](http://omega.com/multipair)**



ANSI color code shown  
To order IEC color code visit [omega.com](http://omega.com)

## CHROMEPA®/ALOMEGA® ANSI TYPE KX

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

To Order						
20 AWG, Polyvinyl				24S AWG (7 x 32), Polyvinyl		
No. of Pairs (Twisted)	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	3.7 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

To Order						
20 AWG, Polyvinyl				24S AWG (7 x 32), Polyvinyl		
No. of Pairs (Twisted)	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

To Order						
20 AWG, Polyvinyl				24S AWG (7 x 32), Polyvinyl		
No. of Pairs (Twisted)	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")	155 (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.**

