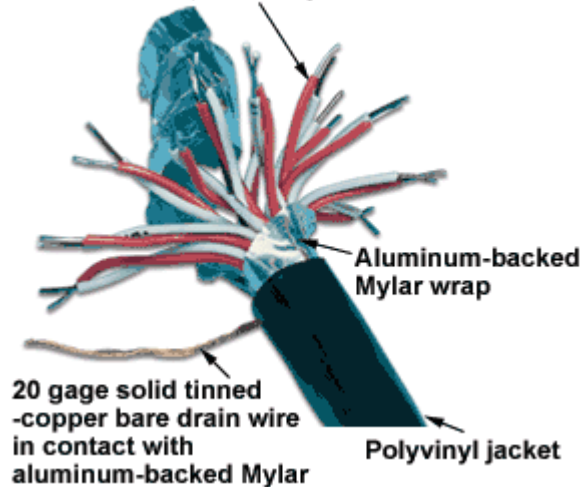# Phoenix Thermal Supply

Multipair Thermocouple Extension Cable
4(*)X, 8(*)X, 12(*)X,16(*)X, 20(*)X and 24(*)X Series

Color-coded polyvinyl-insulated extension wire in twisted, marked pairs

Aluminum-backed Mylar wrap

20 gage solid tinned-copper bare drain wire in contact with aluminum-backed Mylar

Polyvinyl jacket

Common extension wire types are made up into standard multipair cables. Each conductor is covered with a polyvinyl jacket, nominal 0.015" (0.38 mm) thick, and the pairs are individually twisted. Clear Mylar tape is then wrapped around the bundle of twisted pairs. A solid tinned-copper drain wire is laid over the bundle, which is covered with aluminum-backed Mylar 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 0.045" (1.1 mm) thick.

As an added convenience, each standard cable contains an extra polyvinyl-clad solid tinned-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 221°F (105°C).
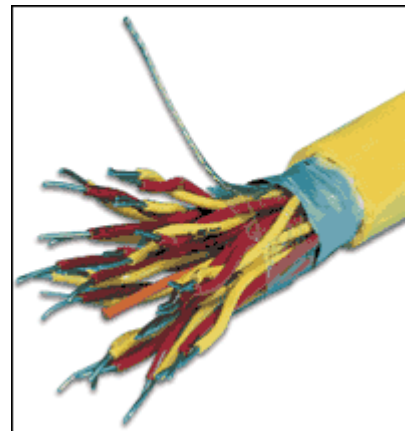
Overbraiding
Any standard item can be overbraided with tinned copper, stainless steel or Inconel upon request.

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 25 feet).

Phoenix Thermal Supply

Minimum Bending Radius
ANSI TYPE KX
ANSI Color Code: Positive Wire, Yellow; Negative Wire, Red; Overall, Yellow

20 AWG, Polyvinyl				24S AWG (7 X 32), Polyvinyl		
Model #	# of Pairs Twisted	Nominal Overall Size	Ship Wt/1000 ft. (lb)	Model #	Nominal Overall Size	Ship Wt/1000 ft. (lb)
4KX20PP	4	0.390"	85	4KX24SPP	0.330"	55
8KX20PP	8	0.480"	135	8KX24SPP	0.420"	85
12KX20PP	12	0.580"	195	12KX24SPP	0.530"	115
16KX20PP	16	0.650"	245	16KX24SPP	0.600"	160
20KX20PP	20	0.680"	285	20KX24SPP	0.625"	190
24KX20PP	24	0.770"	340	24KX24SPP	0.650"	220

IRON/CONSTANTAN - ANSI TYPE JX
ANSI Color Code: Positive Wire, White; Negative Wire, Red; Overall, Black

20 AWG, Polyvinyl				24S AWG (7 X 32), Polyvinyl		
Model #	# of Pairs Twisted	Nominal Overall Size	Ship Wt/1000 ft. (lb)	Model #	Nominal Overall Size	Ship Wt/1000 ft. (lb)
4JX20PP	4	0.390"	85	4JX24SPP	0.330"	55
8JX20PP	8	0.480"	135	8JX24SPP	0.420"	85
12JX20PP	12	0.580"	195	12JX24SPP	0.530"	115
16JX20PP	16	0.650"	245	16JX24SPP	0.600"	160
20JX20PP	20	0.680"	285	20JX24SPP	0.625"	190
24JX20PP	24	0.770"	340	24JX24SPP	0.650"	220

COPPER/CONSTANTAN - ANSI TYPE TX
ANSI Color Code: Positive Wire, Blue; Negative Wire, Red; Overall, Blue

20 AWG, Polyvinyl				24S AWG (7 X 32), Polyvinyl		
Model #	# of Pairs Twisted	Nominal Overall Size	Ship Wt/1000 ft. (lb)	Model #	Nominal Overall Size	Ship Wt/1000 ft. (lb)
4TX20PP	4	0.390"	85	4TX24SPP	0.330"	55
8TX20PP	8	0.480"	135	8TX24SPP	0.420"	85
12TX20PP	12	0.580"	195	12TX24SPP	0.530"	115
16TX20PP	16	0.650"	245	16TX24SPP	0.600"	160
20TX20PP	20	0.680"	285	20TX24SPP	0.625"	190
24TX20PP	24	0.770"	340	24TX24SPP	0.650"	220