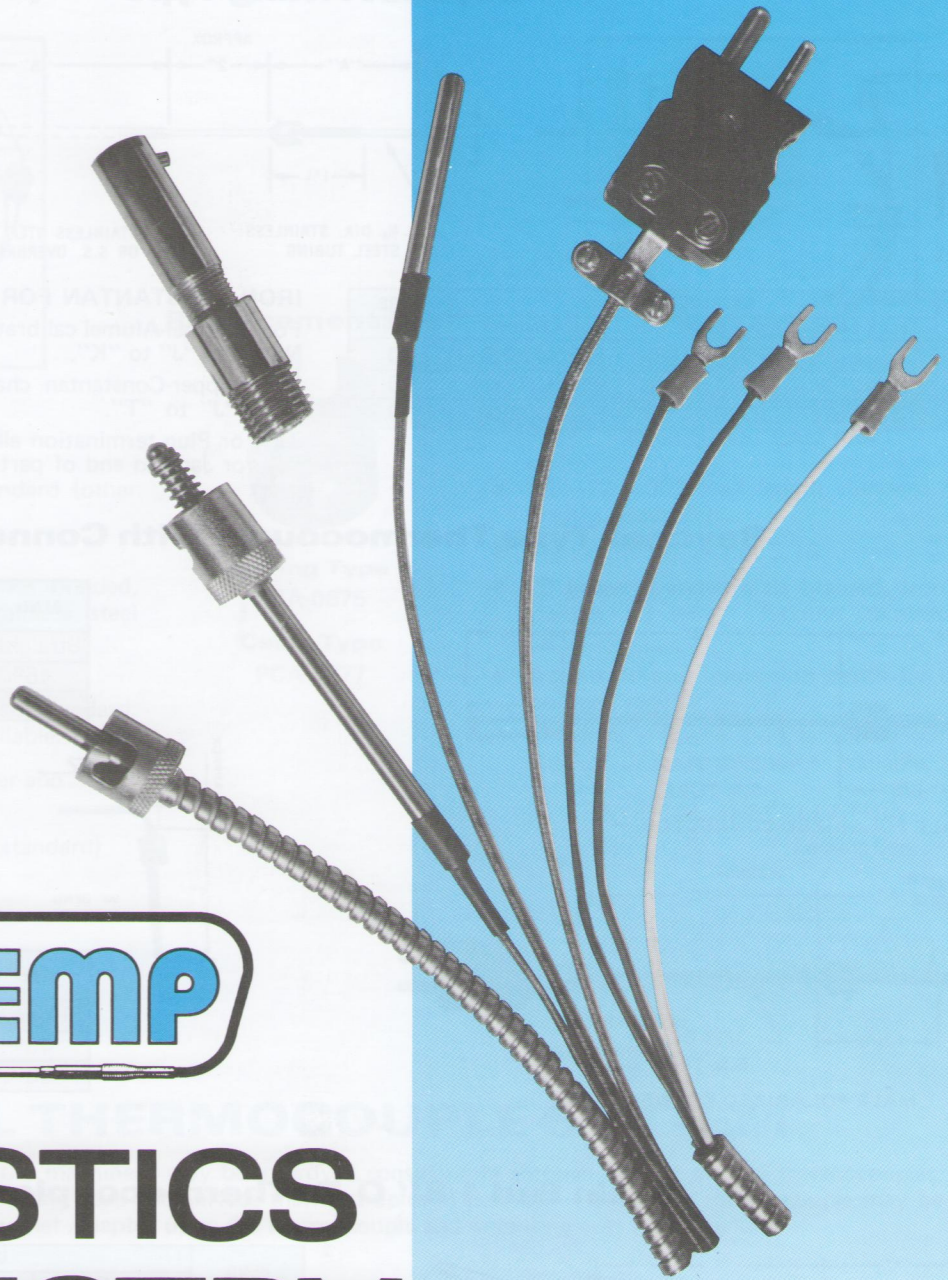
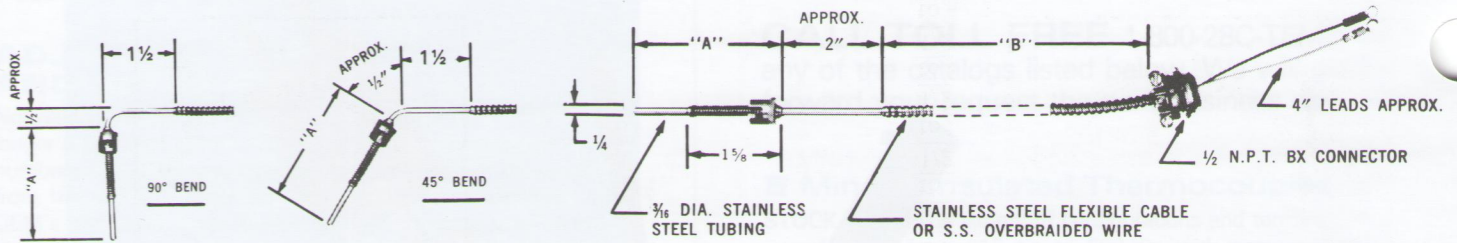


PLASTICS INDUSTRY THERMOCOUPLES



BAYONET TYPE THERMOCOUPLES

Bayonet Fitting Type



BEND	CATALOG NO.			WIRE GAUGE
	FLEX CABLE	S. S. OVERBRAID	GLASSBRAID	
Straight	PJ20M28H	PJ20JM28H	PJ20UM28H	20
45°	PJ20R28H	PJ20JR28H	PJ20UR28H	20
90°	PJ20S28H	PJ20JS28H	PJ20US28H	20

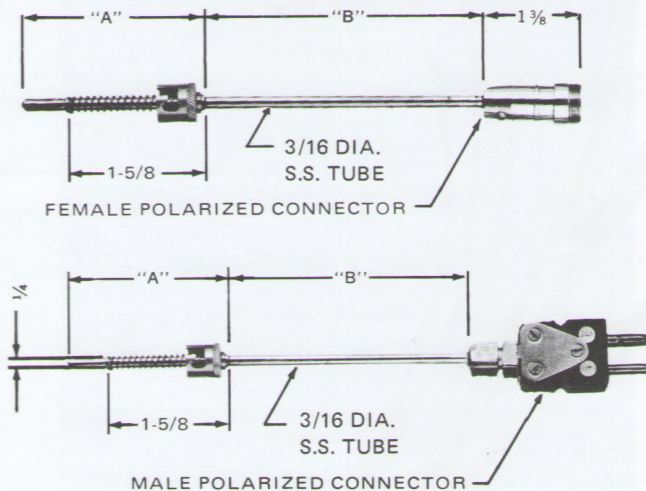
IRON-CONSTANTAN FOR USE TO 900° F

For Chromel-Alumel calibration change second letter of catalog No. from "J" to "K".

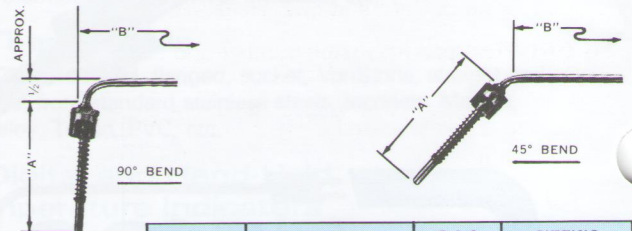
For Copper-Constantan change second letter of catalog No. from "J" to "T".

Jack or Plug termination also available. Add "P" for Plug or "J" for Jack to end of part number.

Bayonet Type Thermocouple with Connectors

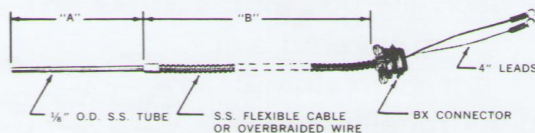


BEND	CATALOG NO.	B & S GAUGE	FITTING TYPE
Straight	PJ20XM28H	20	Bayonet
45°	PJ20XR28H	20	Bayonet
90°	PJ20XS28H	20	Bayonet



BEND	CATALOG NO.	B & S GAUGE	FITTING TYPE
Straight	PJ20WM28H	20	Bayonet
45°	PJ20WR28H	20	Bayonet
90°	PJ20WS28H	20	Bayonet

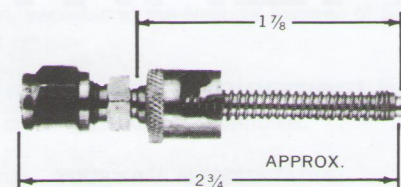
Plain End 1/8" O.D. Thermocouples



BEND	CATALOG NO.			WIRE GAUGE
	FLEX CABLE	S. S. OVERBRAID	GLASSBRAID	
Straight	PJ24M27	PJ24JM27	PJ24UM27	20
45°	PJ24R27	PJ24JR27	PJ24UR27	20
90°	PJ24S27	PJ24JS27	PJ24US27	20

Adjustable Bayonet Fitting

Converts plain 1/8" O.D. thermocouples to bayonet type. Permits stocking one "A" dimension to suit several hole depths. Order Lengths at least 2-1/2" longer than hole depth for PBA-1 adaptor and 3" longer for PBA-3 adaptor. (See page 3 for Adaptors.)



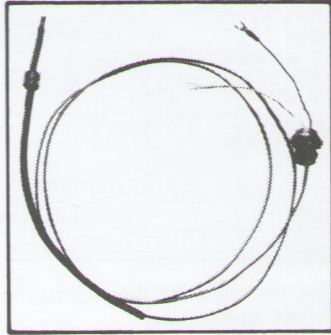
Part No. P-0223

NOTE: (1) All Thermocouples may be supplied with polarized plug or jack. Add letter "P" for plug, or the letter "J" for jack after the assembly number. See page 6 for mating connector.

(2) Dual element assembly available - add the letter "D" to the end of the catalog number.

BAYONET TYPE THERMOCOUPLES

Adjustable Bayonet Thermocouples



Spring Type

Catalog No. PAS-1063

- 48"–72"–96" lead length standard (other lengths available).
- Tip length 3/8"–O.D. 3/16".
- 20 gauge stranded, double glass braided, Iron-Constantan (J) wire, stainless steel overbraid.
- Immersion depth: 1" to 10".
- 4" leads. Spade Lug terminals standard. Plug or Jack terminations available.

TO ORDER: Specify catalog number and length. Specify termination desired:

- A – for Spade Lug terminals (standard)
- P – for Plug
- J – for Jack

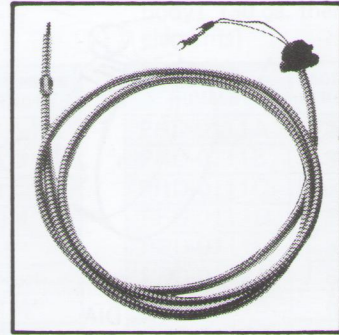
ORDERING EXAMPLE: To order one 72" spring Type Adjustable Thermocouple with Plug termination, specify PAS-1063-P 72" long.

Replacement Cap



Spring Type
PCA-0675

Cable Type
PCA-0677

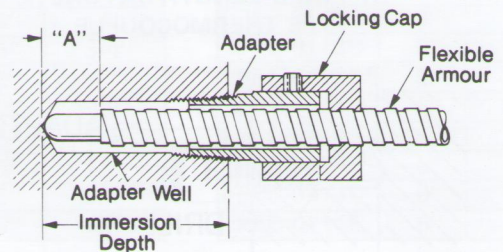


Armored Cable Type

Catalog No. PAC-1064

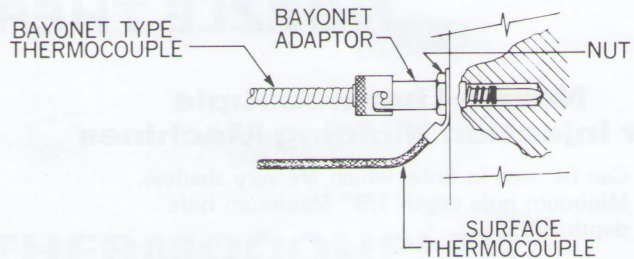
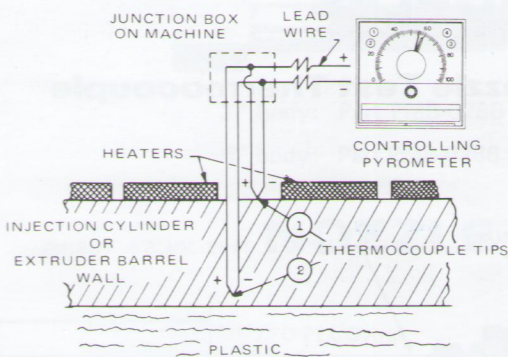
- 48"–72"–96" lead length standard (other lengths available).
- Tip length 3/8"–O.D. 3/16".
- 20 gauge stranded glass braided, Iron Constantan (J) wire, flexible stainless steel cable.
- Adjusts to any immersion depth by use of bayonet cap.
- 4" leads. Spade Lug terminals standard. Plug or Jack terminations available.

TYPICAL INSTALLATION

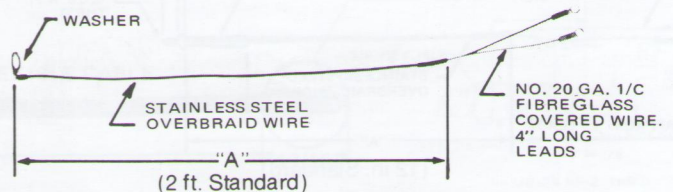


DUAL THERMOCOUPLE SYSTEM

Temperature control in plastics machinery may be improved considerably through the use of dual thermocouples. This is simply done by connecting deep and surface thermocouples in parallel. The surface thermocouple may be mounted easily under the Bayonet Adaptor using the thermocouple and mounting nuts shown below.



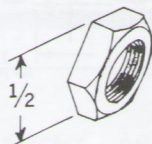
Surface Thermocouple



For #8 Screw -
For #10 Screw -

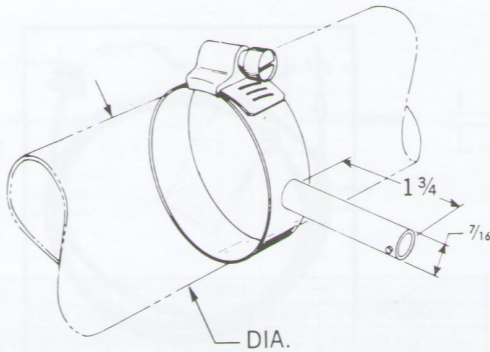
No. PSW-0047
No. PSW-0134

CATALOG NUMBER	THREAD
PN-27	1/8-27 NPT
PN-24	3/8-24 NF



ADAPTORS FOR BAYONET TYPE THERMOCOUPLES

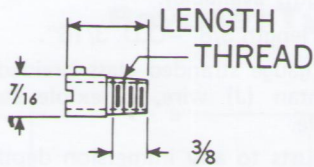
Pipe Type



CATALOG NUMBER	FITS PIPE DIA. INCHES
PPA-28	1/2 to 7/8
PPA-92	7/8 to 1 1/4
PPA-93	1 1/4 to 2
PPA-94	2 to 2 1/2
PPA-95	2 1/4 to 3 1/4
PPA-96	3 1/4 to 4 1/4
PPA-97	3 1/2 to 5

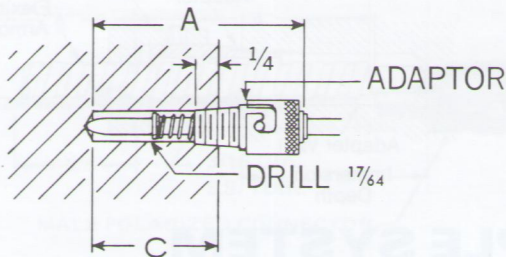
NOTE: Above for bayonet thermocouple with 2 1/4" "A" Dimension.

Threaded Type



CATALOG NUMBER	LENGTH	THREAD
PBA-1	7/8"	1/8-27 N.P.T.
PBA-2	7/8"	3/8-24
PBA-3	1 3/8"	1/8-27 N.P.T.
PBA-4	1 3/8"	3/8-24
PBA-5	2 1/2"	1/8-27 N.P.T.
PBA-6	2 1/2"	3/8-24

SELECTION TABLE FOR "A" DIMENSION OF FIXED LENGTH BAYONET TYPE THERMOCOUPLE

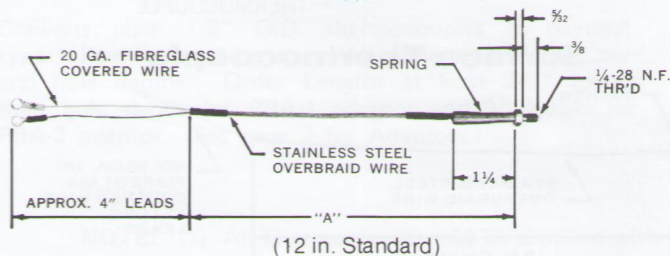


"C" HOLE DEPTH IN INCHES	"A" DIMENSION (inches)		
	7/8" LONG ADAPTER	1 3/8" LONG ADAPTER	2 1/2" LONG ADAPTER
1/4 to 1/2	1 5/8	2	3 1/8
1/2 to 1	2	2 1/2	3 5/8
1 to 1 1/2	2 1/2	3	4 1/8
1 1/2 to 2	3	3 1/2	4 5/8
2 to 2 1/2	3 1/2	4	5 1/8
2 1/2 to 3	4	4 1/2	5 5/8
3 to 3 1/2	4 1/2	5	6 1/8
3 1/2 to 4	5	5 1/2	6 5/8
4 to 4 1/2	5 1/2	6	7 1/8
4 1/2 to 5	6	6 1/2	7 5/8
5 to 5 1/2	6 1/2	7	8 1/8
5 1/2 to 6	7	7 1/2	8 5/8

NOZZLE THERMOCOUPLES

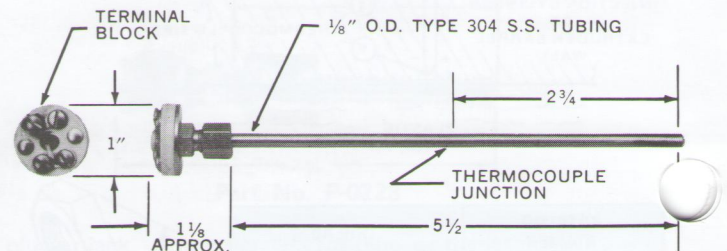
Nozzle Thermocouple For Injection Molding Machines

Can be used in holes which are very shallow. Minimum hole depth 1/8" Maximum hole depth 3/8".



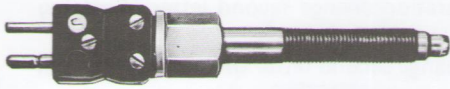
Catalog No. PNT-0039

Nozzle Test Thermocouple

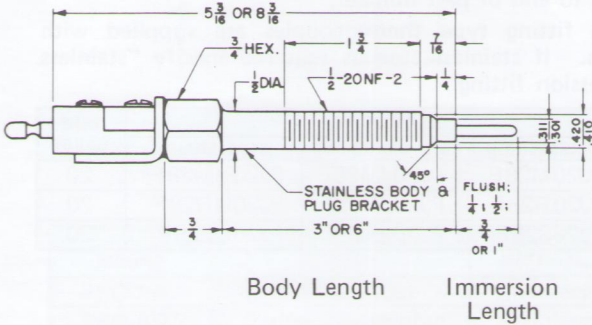


Catalog No. PNT-0052

MELT THERMOCOUPLES



RIGID PLUG MODEL



Rigid Plug Model-Single Element
(24 ga. thermocouple element)

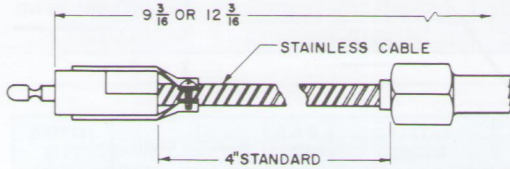
CATALOG NUMBER	BODY LENGTH	IMMERSION LENGTH
PRM-0106A	3"	Flush
PRM-0106B	3"	1/4"
PRM-0106C	3"	1/2"
PRM-0106D	3"	3/4"
PRM-0106E	3"	1"
PRM-0100A	6"	Flush
PRM-0100B	6"	1/4"
PRM-0100C	6"	1/2"
PRM-0100D	6"	3/4"
PRM-0100E	6"	1"

Rigid Plug Model-Dual Element
(with 2 elements & plugs in 1 body) (30 ga. thermocouple elements)

CATALOG NUMBER	BODY LENGTH	IMMERSION LENGTH
PRD-0111A	3"	Flush
PRD-0111B	3"	1/4"
PRD-0111C	3"	1/2"
PRD-0111D	3"	3/4"
PRD-0111E	3"	1"
PRD-0112A	6"	Flush
PRD-0112B	6"	1/4"
PRD-0112C	6"	1/2"
PRD-0112D	6"	3/4"
PRD-0112E	6"	1"



FLEXIBLE CABLE MODEL



Flexible Cable Model-Single Element
(24 ga. thermocouple element) 4" armored cable standard

CATALOG NUMBER	BODY LENGTH	IMMERSION LENGTH
PFM-0108A	3"	Flush
PFM-0108B	3"	1/4"
PFM-0108C	3"	1/2"
PFM-0108D	3"	3/4"
PFM-0108E	3"	1"
PFM-0109A	6"	Flush
PFM-0109B	6"	1/4"
PFM-0109C	6"	1/2"
PFM-0109D	6"	3/4"
PFM-0109E	6"	1"

Flexible Cable Model-Dual Element
(with 2 elements & plugs in 1 body) (30 ga. thermocouple elements) 4" armored cable standard

CATALOG NUMBER	BODY LENGTH	IMMERSION LENGTH
PFD-0113A	3"	Flush
PFD-0113B	3"	1/4"
PFD-0113C	3"	1/2"
PFD-0113D	3"	3/4"
PFD-0113E	3"	1"
PFD-0114A	6"	Flush
PFD-0114B	6"	1/4"
PFD-0114C	6"	1/2"
PFD-0114D	6"	3/4"
PFD-0114E	6"	1"

Blank Bolts

Used to seal hole if thermocouple is removed from extruder.



3" body: Part PMB-0285

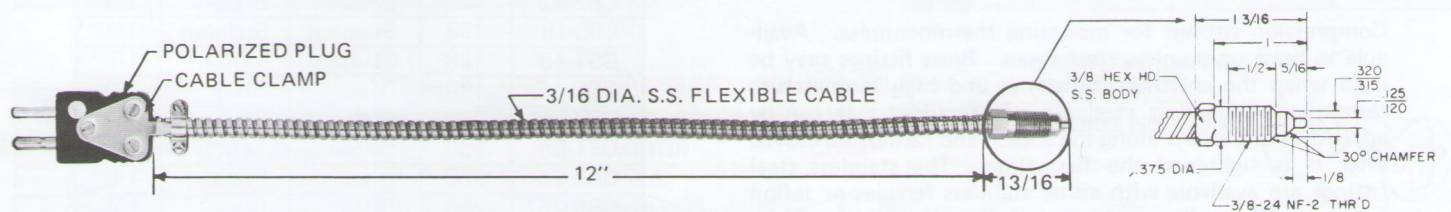
6" body: Part PMB-0286

Used to seal hole if thermocouple is removed from nozzle.



Part PNB-0360

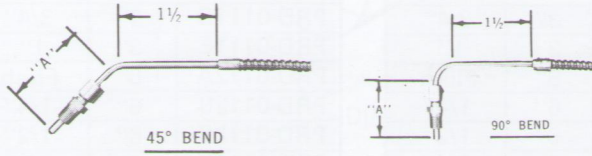
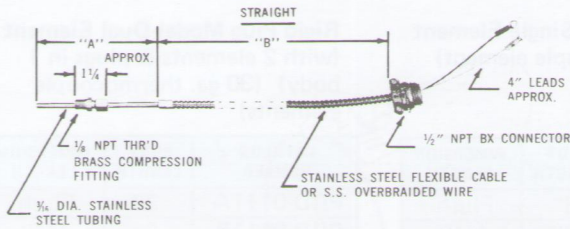
NOZZLE MELT THERMOCOUPLES



SINGLE ELEMENT – PNM-0141

DUAL ELEMENT – PNM-0142

COMPRESSION TYPE THERMOCOUPLES



IRON-CONSTANTAN FOR USE TO 900 F

For Chromel-Alumel calibration change second letter of catalog No. from "J" to "K".

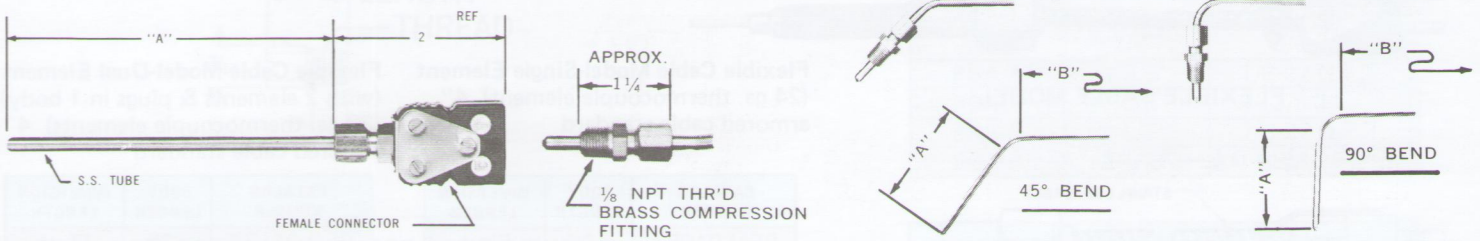
For Copper-Constantan change second letter of catalog No. from "J" to "T".

Jack or Plug termination also available. Add "P" for Plug or "J" for Jack to end of part number.

Compression fitting type thermocouples are supplied with brass fittings. If stainless steel is required specify "stainless steel compression fitting".

BEND	CATALOG NO.			WIRE GAUGE
	FLEX CABLE	S. S. OVERBRAID	GLASSBRAID	
Straight	PJ20M28F	PJ20JM28F	PJ20UM28F	20
45°	PJ20R28F	PJ20JR28F	PJ20UR28F	20
90°	PJ20S28F	PJ20JS28F	PJ20US28F	20

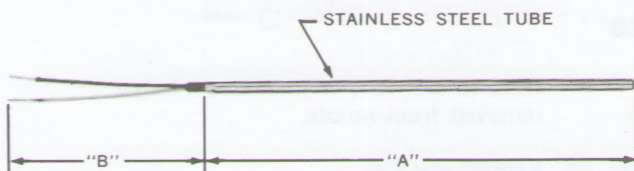
Compression Fitting Type with Connectors



CATALOG NUMBER	B & S GAUGE	O. D.	BEND	FITTING TYPE	CATALOG NUMBER	B & S GAUGE	O. D.	BEND	FITTING TYPE	CATALOG NUMBER	B & S GAUGE	O. D.	BEND	FITTING TYPE
PJ24BWM27	24	1/8	None	None	PJ20BWM28	20	3/16	None	None	PJ20BWM42	20	1/4	None	None
PJ24BWR27	24	1/8	45°	None	PJ20BWR28	20	3/16	45°	None	PJ20BWR42	20	1/4	45°	None
PJ24BWS27	24	1/8	90°	None	PJ20BWS28	20	3/16	90°	None	PJ20BWS42	20	1/4	90°	None
PJ24BWM27F	24	1/8	None	Comp	PJ20BWM28F	20	3/16	None	Comp	PJ20BWM42F	20	1/4	None	Comp
PJ24BWR27F	24	1/8	45°	Comp	PJ20BWR28F	20	3/16	45°	Comp	PJ20BWR42F	20	1/4	45°	Comp
PJ24BWS27F	24	1/8	90°	Comp	PJ20BWS28F	20	3/16	90°	Comp	PJ20BWS42F	20	1/4	90°	Comp

See page 6 for mating plug.

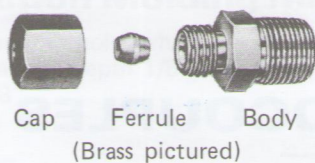
Sensitive Element Only



STD. LEAD LENGTH 4"

CATALOG NUMBER	B & S GAUGE	O. D.
PJ30B26	30	1/16
PJ24B27	24	1/8
PJ20B28	20	3/16
PJ20B42	20	1/4

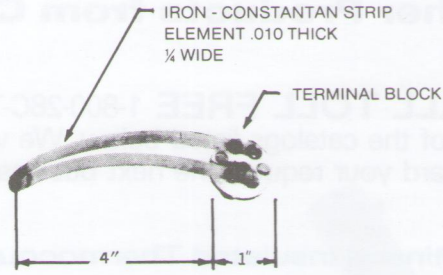
Compression Fittings



Compression fittings for mounting thermocouples. Available in brass or stainless steel types. Brass fittings may be used when the corrosion resistance and high temperature resistance of stainless steel are not required. It can be applied at any point along the sheath and cannot be moved after it is tightened the first time. The stainless steel fittings are available with either stainless ferrules or teflon ferrules. The teflon units may be readjusted along the sheath as often as required. Specify ordering number.

CATALOG NUMBER	SHEATH O. D.	TYPE	FERRULE	MALE N. P. T.
CSS-06	.063	Stainless	Stainless	1/8"
CST-06	.063	Stainless	Teflon	1/8"
CSS-12	.125	Stainless	Stainless	1/8"
CST-12	.125	Stainless	Teflon	1/8"
CBB-12	.125	Brass	Brass	1/8"
CSS-18	.188	Stainless	Stainless	1/8"
CST-18	.188	Stainless	Teflon	1/8"
CBB-18	.188	Brass	Brass	1/8"
CSS-25	.250	Stainless	Stainless	1/8"
CST-25	.250	Stainless	Teflon	1/8"
CBB-25	.250	Brass	Brass	1/8"
CBB-251	.250	Brass	Brass	1/4"
CSS-251	.250	Stainless	Stainless	1/4"

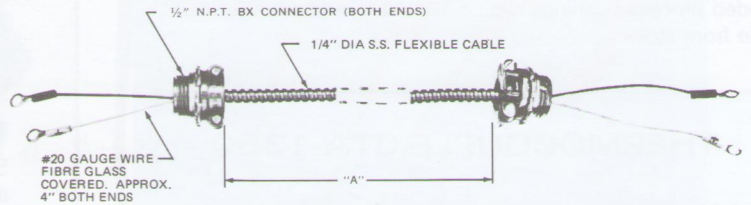
Web Thermocouple



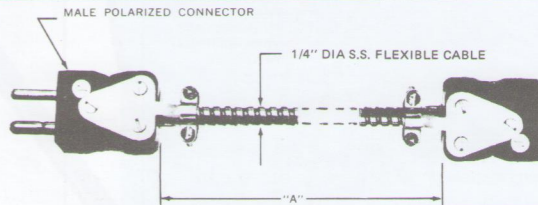
CATALOG NUMBER	TYPE
PWT-118	Element and Block
PWT-212	Element Only

Extension Wire in Armored Cable

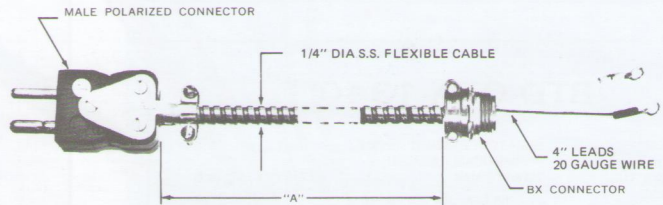
CATALOG NUMBER	THERMOCOUPLE MATERIAL	CABLE MATERIAL
PEC-AAJ	Iron-Constantan	Stainless
PEC-AAT	Copper-Constantan	Stainless
PEC-AAK	Chromel-Alumel	Stainless



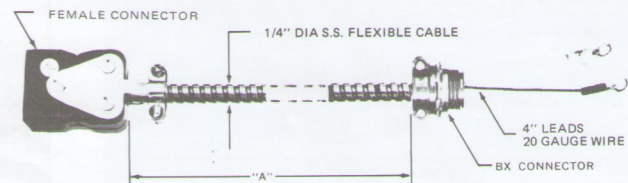
CATALOG NUMBER	THERMOCOUPLE MATERIAL	CABLE MATERIAL
PEC-BCJ	Iron-Constantan	Stainless
PEC-BCT	Copper-Constantan	Stainless
PEC-BCK	Chromel-Alumel	Stainless



CATALOG NUMBER	THERMOCOUPLE MATERIAL	CABLE MATERIAL
PEC-ABJ	Iron-Constantan	Stainless
PEC-ABT	Copper-Constantan	Stainless
PEC-ABK	Chromel-Alumel	Stainless



CATALOG NUMBER	THERMOCOUPLE MATERIAL	CABLE MATERIAL
PEC-ACJ	Iron-Constantan	Stainless
PEC-ACT	Copper-Constantan	Stainless
PEC-ACK	Chromel-Alumel	Stainless

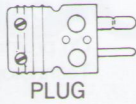


Thermocouple Connector System

Thermocouple materials used as contacts throughout. ANSI color coded for calibration. 450°F rating.

COLOR CODED PLUGS

CATALOG NUMBER	TYPE	COLOR
C10-J	Iron-Constantan (J)	Black
C10-K	Chromel-Alumel (K)	Yellow
C10-T	Copper-Constantan (T)	Blue



PLUG

COLOR CODED JACKS

CATALOG NUMBER	TYPE	COLOR
C20-J	Iron-Constantan (J)	Black
C20-K	Chromel-Alumel (K)	Yellow
C20-T	Copper-Constantan (T)	Blue

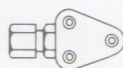


JACK

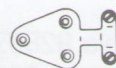
TUBE ADAPTOR

CATALOG NUMBER	TYPE
C-51	Tube Adaptor 1/6 Dia.
C-52	Tube Adaptor 1/8 Dia.
C-53	Tube Adaptor 3/16 Dia.
C-54	Tube Adaptor 1/4 Dia.

TUBE ADAPTOR



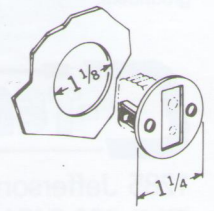
CABLE CLAMP



Catalog No. C-40

PANEL MOUNTING BRACKET

Catalog No. C-930

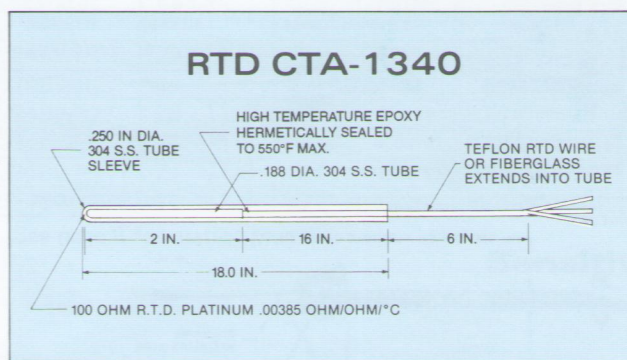
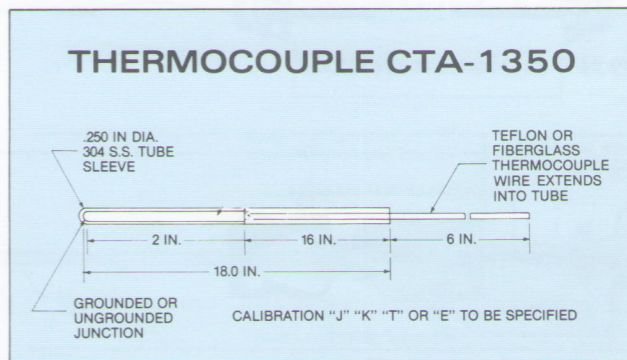


Flexibility Problems?

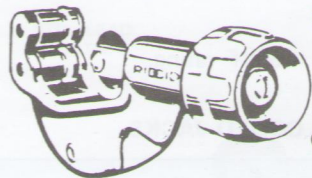
Here's the solution!

ADJUSTABLE RTD's AND THERMOCOUPLES

Not having the correct length THERMOCOUPLE or RTD is no longer a problem. With C-TEMP's adjustable sensor part numbers CTA-1340 and CTA-1350, you can adjust the length from 18" to 2½". These sensors are ideal for distributors, OEM's and users. Their flexibility allows inventories to be kept to a minimum by stocking one adjustable size. CTA-1340 and CTA-1350 are supplied in a .250 Dia. S.S. to fit most standard thermowells and accessories. Compression fitting and spring loaded process bushings slip on with ease and are also available from stock.



The **ONLY** tool you will need
is a tube cutter.



Simply mark the
required length and
cut off the excess.

Because these sensors are manufactured in large quantities, their cost is considerably less than our already low price for a similar sensor made to order. Specify the complete part number when ordering: Resistance Temperature Detector Part No. CTA-1340 or Thermocouple Part No. CTA-1350 - (ISA Type) - G or U (U = ungrounded, G = grounded).



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