Adjustable Length Spring Bayonet Style RTD
Part # Builder
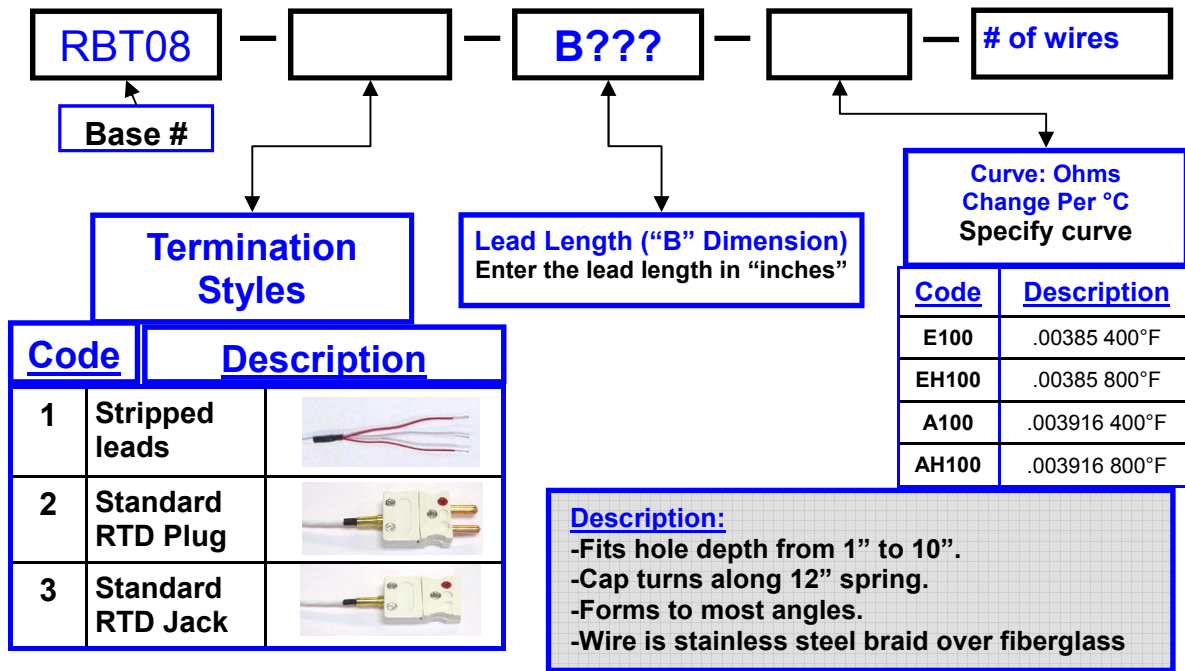
RBT08 — ☐ — B??? — ☐ — # of wires

Base #

Termination Styles

Code	Description	
1	Stripped leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Lead Length ("B" Dimension)
Enter the lead length in "inches"

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Description:
-Fits hole depth from 1" to 10".
-Cap turns along 12" spring.
-Forms to most angles.
-Wire is stainless steel braid over fiberglass

Construction Notes:
-Stainless steel construction with fiberglass or Teflon insulated stranded wire.
-The probe tip is 3/16" diameter and our standard unit is approximately 3/4" long
-Adapters are NOT furnished with RTD probes and must be ordered separately. **(See page 27)**

Optional Notes:
-For other wire construction types, consult a sales engineer.
-For 6" spring add option Z165 at end of part number
-For 12mm & 15mm metric caps please consult ECS
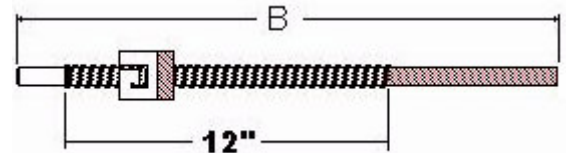- Add **"Z175"** to the end of part # for **no spade lugs**

Consult ECS for these other options:
-Values other than 100 ohms (500 ohms, 1000ohms, etc.)
-Class A elements
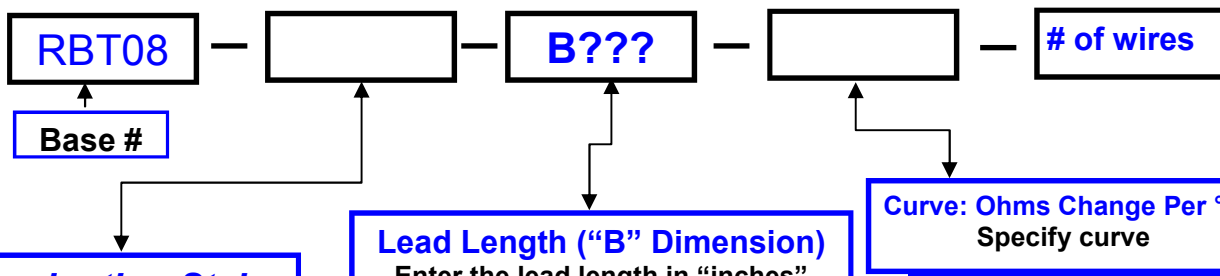
Example: RBT08-1-B48-EH100-2
The example calls out a spring type adjustable style, 48" long stainless steel braided leads,
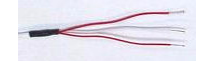*and fiberglass insulated leads, with a two-wire construction.*

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Adjustable Length Flex-Armor Bayonet Style RTD

Part # Builder

| RBT08 | – | ☐ | – | B??? | – | ☐ | – | # of wires |

Base #

Termination Styles

Code	Description	
14	Stripped Leads	
15	Standard RTD Plug	
16	Standard RTD Jack	

Lead Length ("B" Dimension)
Enter the lead length in "inches"

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

NOTES:
- *Same as spring but not as flexible*
- *Cap turns along the entire length.*
- *Not as much spring tension*
- *Flex-armor hose acts like a spring*

Construction Notes:
-Stainless steel construction with fiberglass or Teflon insulated wire inside the flex-armor.
-Probe tip is 3/16" diameter tube and is approximately 1/2" long.
-Adapters are NOT furnished with the RTD probes and must be ordered separately.

Optional Notes:
-For other wire constructions types, consult a sales engineer.
-For 12mm metric cap consult

Consult ECS for these other options:
-Values other than 100 ohms (500 ohms, 1000ohms, etc.)
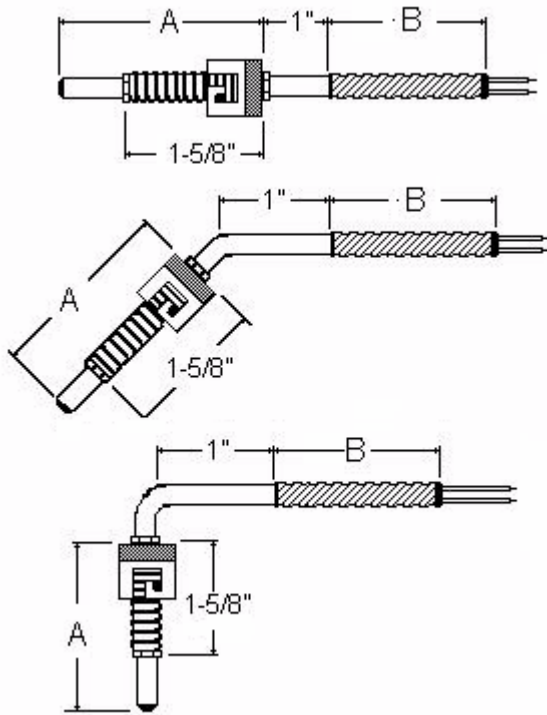-Class A elements

Example: RBT08-14-EH100-2

The example calls out an adjustable length, 48" long flex armor cable type RTD, with Fiberglass insulated leads, and a two-wire construction.
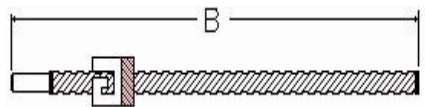
Flex- Armor Fixed Bayonet Style RTD

1/8" Diameter (Straight)	
Catalog Number	**Term. Style**
34	1
37	2
40	3

3/16" Diameter (Straight)	
Catalog Number	**Term. Style**
4	1
7	2
10	3

1/8" Diameter (45°)	
Catalog Number	**Term. Style**
35	1
38	2
41	3

3/16" Diameter (45°)	
Catalog Number	**Term. Style**
5	1
8	2
11	3

1/8" Diameter (90°)	
Catalog Number	**Term. Style**
36	1
39	2
42	3

3/16" Diameter (90°)	
Catalog Number	**Term. Style**
6	1
9	2
12	3

Part # Builder

RBT08 — **Catalog Number** — **A???** — **B???** — ☐ — **# of wires**

Base #

Select Catalog # from Above

Enter "A" Dimension
Back of cap to tip of probe

Enter "B" Dimension
Enter lead length in inches

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Termination Styles

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Consult for these other options:
-Values other than 100 ohms (500ohms, 1000ohms, etc.)
-Class A elements

Notes:
-Either Fiberglass or Teflon wire inside the flex-armor
-Adapters are NOT furnished with thermocouples and must be ordered separately
Example: RBT08-4-A4-B48-EH100-3
This example calls out a bayonet style RTD with a 3/16"OD probe, 4" insertion length,
48" of flex-armor, with fiberglass wire inside the hose, 3 wire construction, with stripped leads.

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Stainless Steel Braid Fixed Bayonet Style RTD

1/8" Diameter (Straight)

Catalog Number	Term. Style
4	1
7	2
10	3

3/16" Diameter (Straight)

Catalog Number	Term. Style
14	1
17	2
20	3

1/8" Diameter (45°)

Catalog Number	Term. Style
5	1
8	2
11	3

3/16" Diameter (45°)

Catalog Number	Term. Style
15	1
18	2
21	3

1/8" Diameter (90°)

Catalog Number	Term. Style
6	1
9	2
12	3

3/16" Diameter (90°)

Catalog Number	Term. Style
16	1
19	2
22	3

Part # Builder

RBT18 — Catalog Number — A??? — B??? — [ ] — # of wires

Base #

Select Catalog # from Above

Enter "A" Dimension Back of cap to tip of probe

Enter "B" Dimension Enter lead length in inches

Curve: Ohms Change Per °C Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Termination Styles

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Consult for these other options:
-Values other than 100 ohms (500ohms, 1000ohms, etc.)
-Class A elements

Notes:
Either Teflon or fiberglass under Stainless steel braid
Adapters are NOT furnished with thermocouples and must be ordered separately
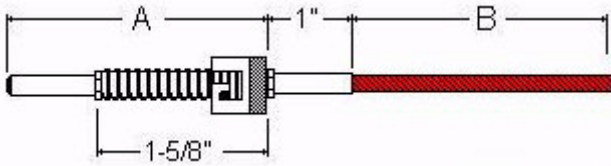**Example:** RBT18-14-A4-B48-EH100-3
This example calls out a bayonet style RTD, with stainless steel braid leads, 3/16"OD probe, 3" insertion length, 48" leads, with a 3 wire construction

Fiberglass Insulated Bayonet Style RTD

1/8" Diameter (Straight)	
Catalog Number	**Term. Style**
4	1
7	2
10	3

3/16" Diameter (Straight)	
Catalog Number	**Term. Style**
14	1
17	2
20	3

1/8" Diameter (45°)	
Catalog Number	**Term. Style**
5	1
8	2
11	3

3/16" Diameter (45°)	
Catalog Number	**Term. Style**
15	1
18	2
21	3

1/8" Diameter (90°)	
Catalog Number	**Term. Style**
6	1
9	2
12	3

3/16" Diameter (90°)	
Catalog Number	**Term. Style**
16	1
19	2
22	3

Part # Builder

RBT38 — **Catalog Number** — **A???** — **B???** — ____ — **# of wires**

Base #

Select Catalog # from Above

Enter "A" Dimension
Back of cap to tip of probe

Enter "B" Dimension
Enter lead length in inches

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Termination Styles

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Consult for these other options:
-Values other than 100 ohms (500ohms, 1000ohms, etc.)
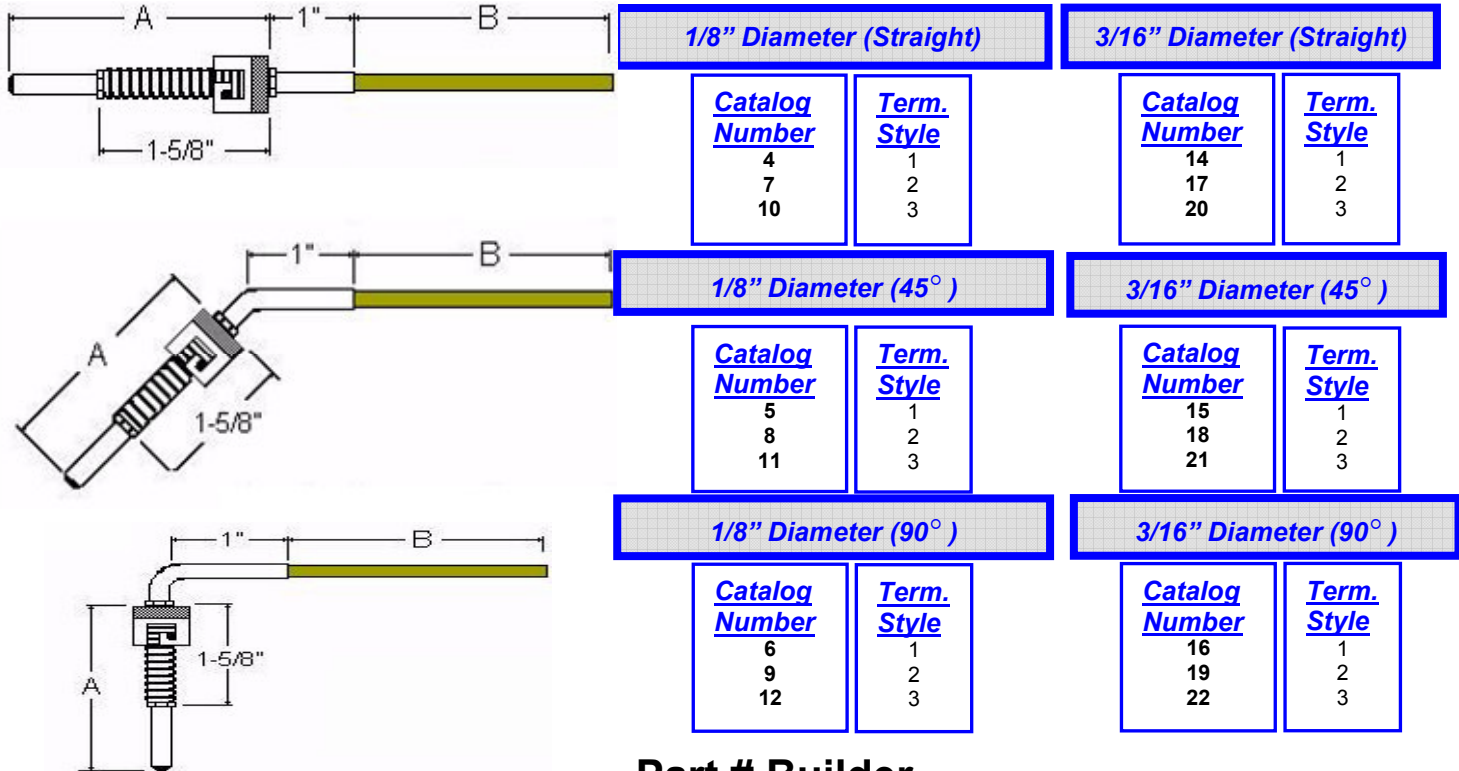-Class A elements

Notes: Stainless steel construction with fiberglass insulated wire.

Example: RBT38-14-A4-B48-EH100-2
This example calls out a bayonet style RTD, 3/16"OD probe, 4' insertion, with 48" of fiberglass insulation, 2 wire construction

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Teflon Insulated Fixed Bayonet Style RTD

1/8" Diameter (Straight)	
Catalog Number	**Term. Style**
4	1
7	2
10	3

3/16" Diameter (Straight)	
Catalog Number	**Term. Style**
14	1
17	2
20	3

1/8" Diameter (45°)	
Catalog Number	**Term. Style**
5	1
8	2
11	3

3/16" Diameter (45°)	
Catalog Number	**Term. Style**
15	1
18	2
21	3

1/8" Diameter (90°)	
Catalog Number	**Term. Style**
6	1
9	2
12	3

3/16" Diameter (90°)	
Catalog Number	**Term. Style**
16	1
19	2
22	3

Part # Builder

RBT28 — **Catalog Number** — **A???** — **B???** — [ ] — **# of wires**

Base #

Select Catalog # from Above

Enter "A" Dimension
Back of cap to tip of probe

Enter "B" Dimension
Enter lead length in inches

Curve: Ohms Change Per °C
Specify curve

Termination Styles

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Consult for these other options:
-Values other than 100 ohms (500ohms, 1000ohms, etc.)
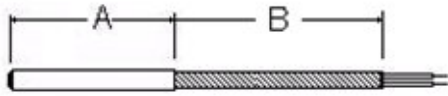-Class A elements

Notes: Stainless steel construction with Teflon insulated wire.
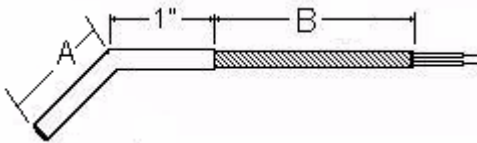
Example: RBT28-14-A4-B48-E100-2
This example calls out a bayonet style RTD with a 4" insertion length, 48" of Teflon insulated leads, with a 2 wire construction
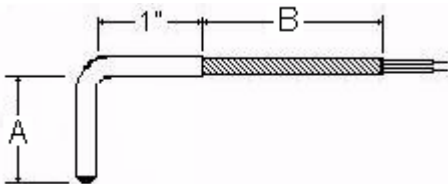
40

Stainless Steel Braid Style RTD

Straight Probe
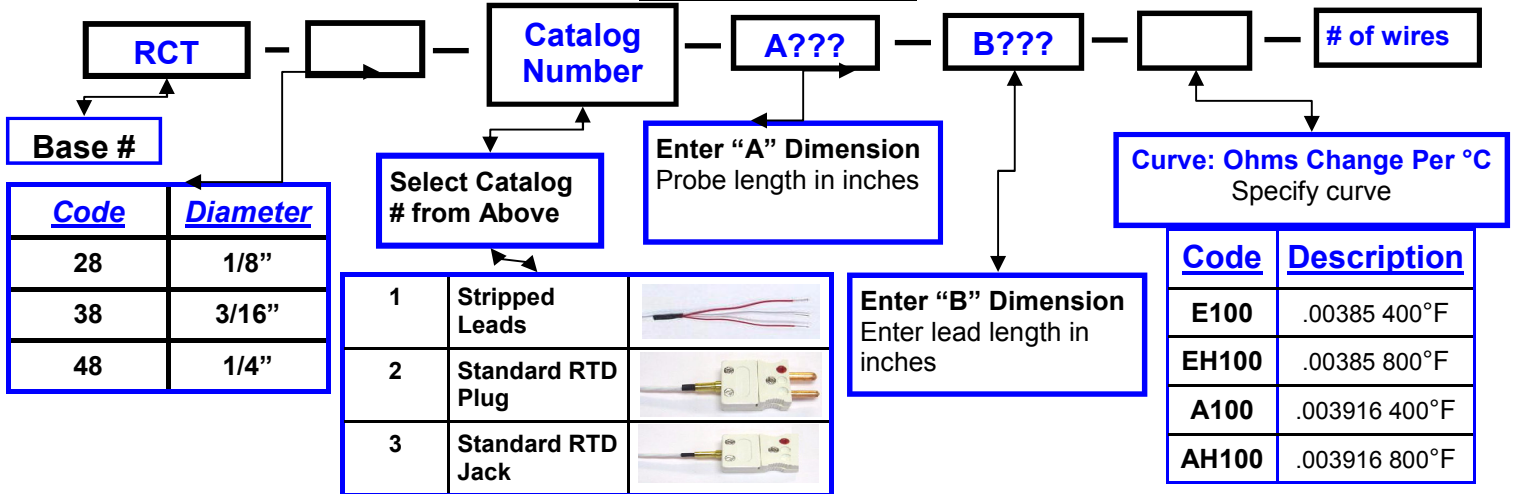
Catalog Number	Term. Style
1	1
4	2
7	3

45° Bend

Catalog Number	Term. Style
2	1
5	2
8	3

90° Bend

Catalog Number	Term. Style
3	1
6	2
9	3

Part # Builder

RCT — ☐ — Catalog Number — A??? — B??? — ☐ — # of wires

Base #

Code	Diameter
28	1/8"
38	3/16"
48	1/4"

Select Catalog # from Above

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Enter "A" Dimension Probe length in inches

Enter "B" Dimension Enter lead length in inches

Curve: Ohms Change Per °C Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Notes:
-Stainless steel construction with Teflon or fiberglass under stainless steel braid.
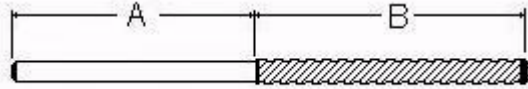-For other wire construction consult

Consult for these other options:
-Values other than 100 ohms (500ohms, 1000ohms, etc.)
-Class A elements

Example: RCT38-1-A4-B48-EH100-2
This example calls out a compression style RTD with 48" stainless steel braid leads, 3/16" OD probe,
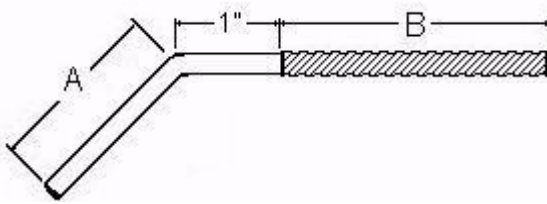
Flex–Armor Style RTD

Straight Probe	
Catalog Number	*Term. Style*
1	1
4	2
7	3

45° Bend	
Catalog Number	*Term. Style*
2	1
5	2
8	3

90° Bend	
Catalog Number	*Term. Style*
3	1
6	2
9	3

Part # Builder

RCT — [ ] — **Catalog Number** — **A???** — **B???** — [ ] — **# of wires**

Base #

Code	*Diameter*
12	1/8"
18	3/16"
13	1/4"

Select Catalog # from Above

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Enter "A" Dimension
Probe length in inches

Enter "B" Dimension
Enter lead length in inches

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F
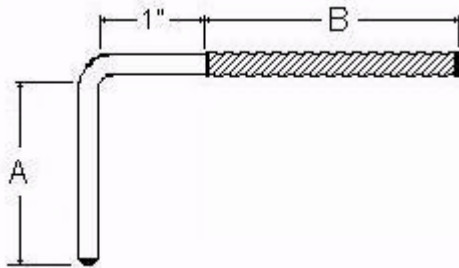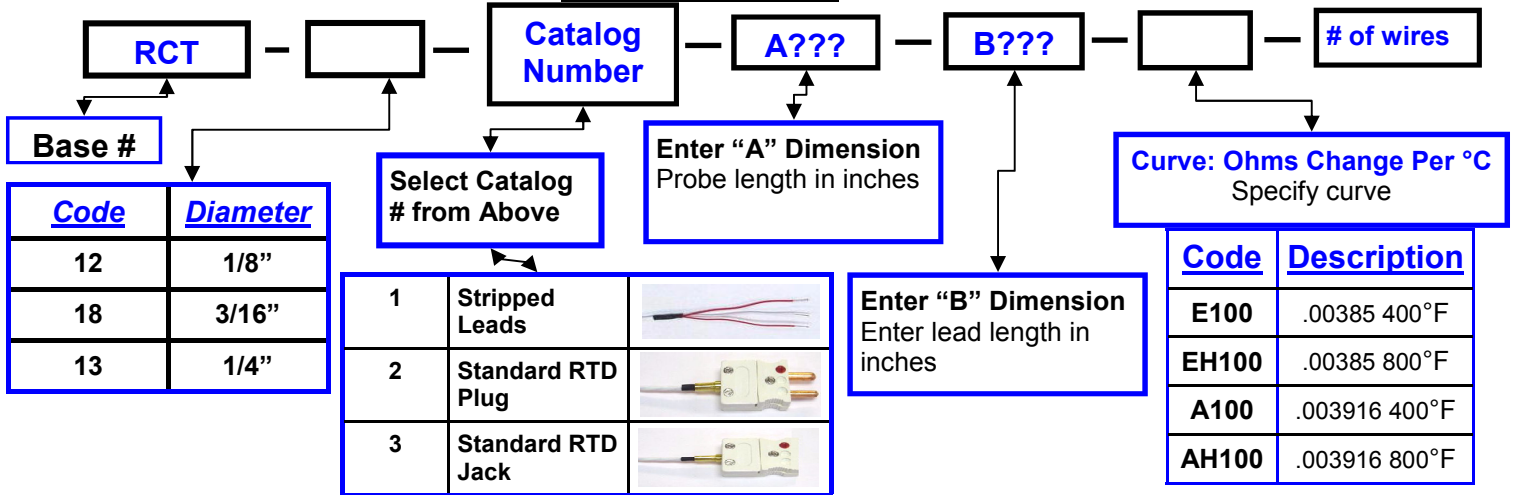
Notes:
-Stainless steel construction with Teflon or fiberglass insulated wire.
-For other wire construction consult

Consult for these other options:
-Values other than 100 ohms
(500ohms, 1000ohms, etc.)
-Class A elements

Example: RCT18-1-A4-B48-EH100-2
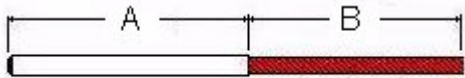 *This Example calls out a compression style RTD with 48" Flex-armor leads, 3/16"OD probe,*
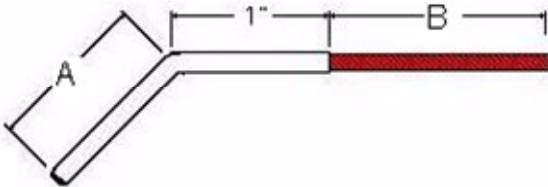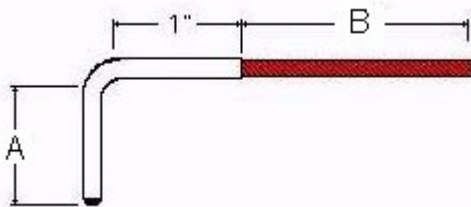 *4" insertion length, with a 2-wire construction*

Fiberglass Insulated Style RTD

Straight Probe

Catalog Number	Term. Style
38	1
45	2
46	3

45° Bend

Catalog Number	Term. Style
47	1
48	2
49	3

90° Bend

Catalog Number	Term. Style
50	1
51	2
52	3

Part # Builder

RCT — ☐ — Catalog Number — A??? — B??? — ☐ — # of wires

Base #

Code	Diameter
17	1/8"
18	3/16"
19	1/4"

Select Catalog # from Above

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Enter "A" Dimension
Probe length in inches

Enter "B" Dimension
Enter lead length in inches

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Consult for these other options:
-Values other than 100 ohms (500ohms, 1000ohms, etc.)
-Class A elements

Notes:
 -24 gauge wire
 -Adapters are NOT furnished with thermocouples and must be ordered separately
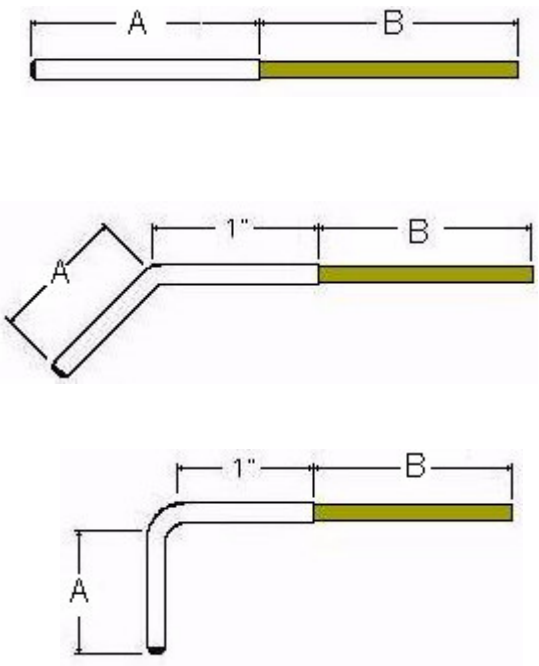**Example:** RCT18-38-A4-B48-EH100-3
This example calls out a compression style RTD with 48" of fiberglass-insulated leads, 3/16" OD probe, 4" insertion length, and a 3-wire construction.

Teflon Insulated Style RTD

Straight Probe	
Catalog Number	Term. Style
11	1
14	2
17	3

45° Bend	
Catalog Number	Term. Style
12	1
15	2
18	3

90° Bend	
Catalog Number	Term. Style
13	1
16	2
19	3

Part # Builder

RCT — [ ] — Catalog Number — A??? — B??? — [ ] — # of wires

Base #

Code	Diameter
28	1/8"
38	3/16"
48	1/4"

Select Catalog # from Above

1	Stripped Leads	
2	Standard RTD Plug	
3	Standard RTD Jack	

Enter "A" Dimension
Probe length in inches

Enter "B" Dimension
Enter lead length in inches

Curve: Ohms Change Per °C
Specify curve

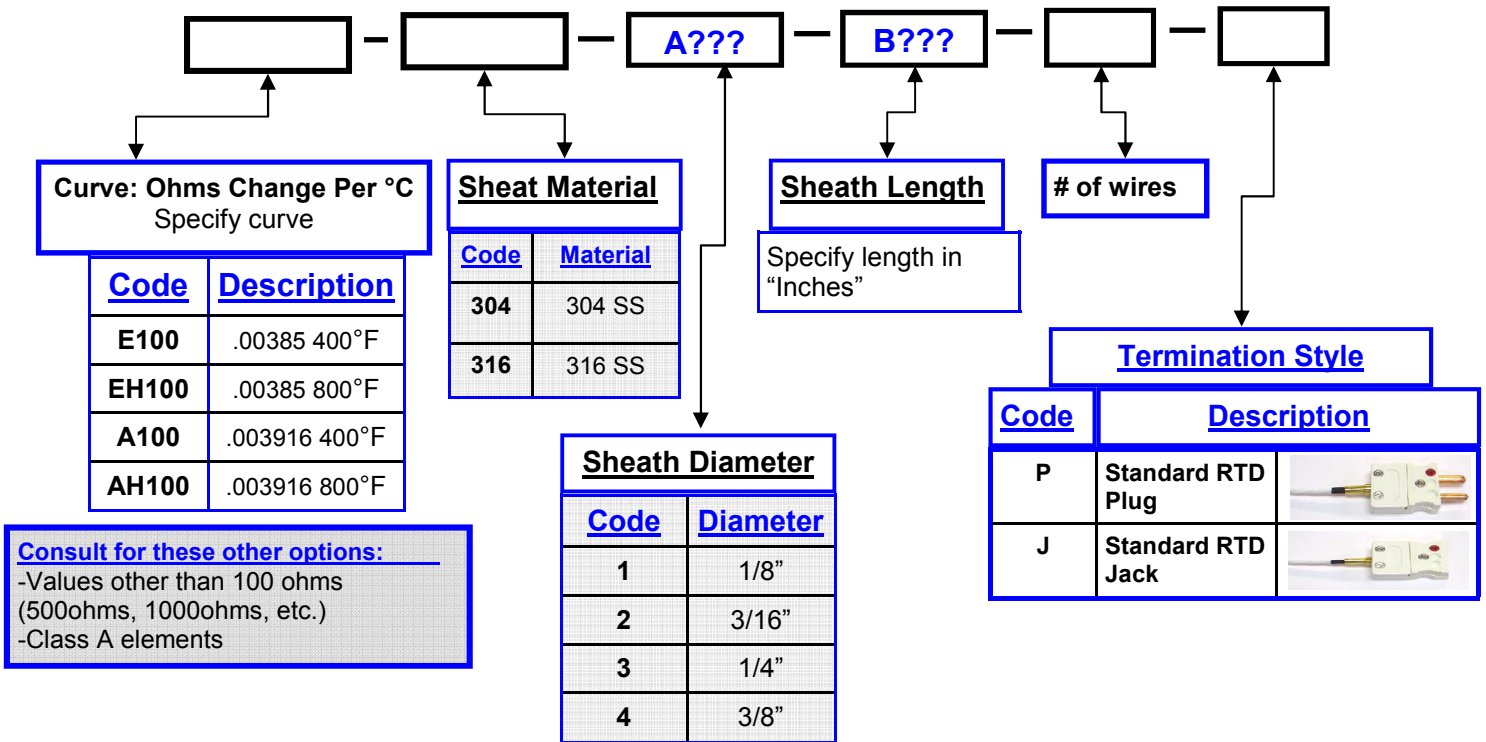| Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F
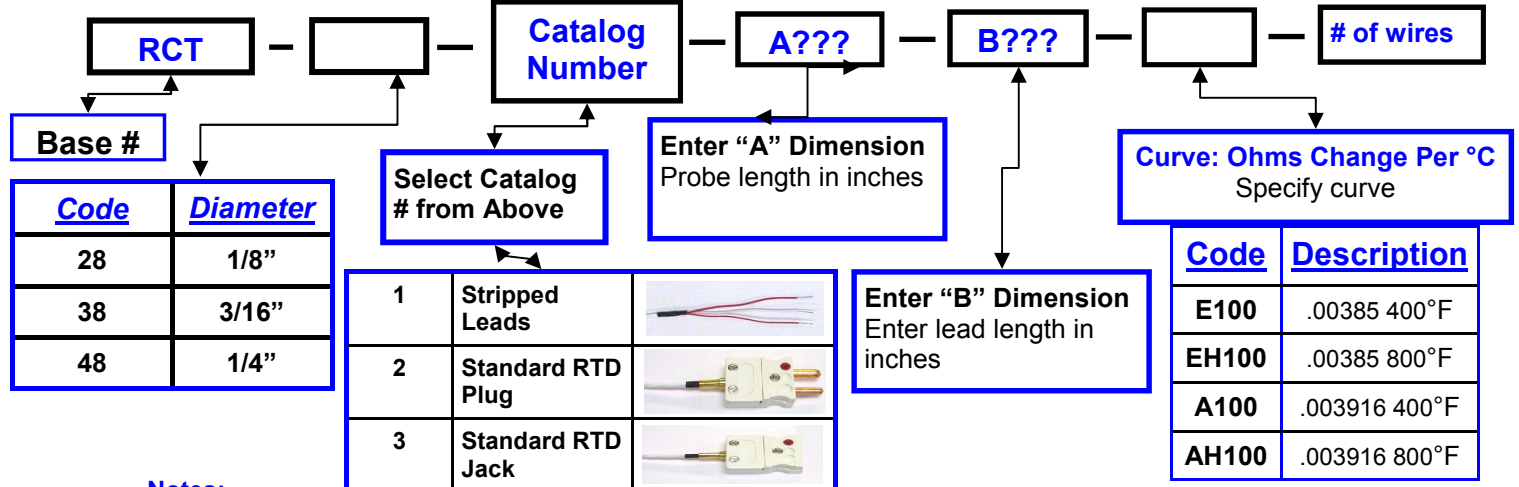
Notes:
-24 gauge wire for 1/8" diameter
-Adapters are NOT furnished with thermocouples and must be ordered separately
Example: RCT38-11-A4-B48-E100-3
This example calls out a compression style RTD, with 48" Teflon insulated leads, 3/16"OD probe,
4" insertion length with a 3-wire construction.

Consult for these other options:
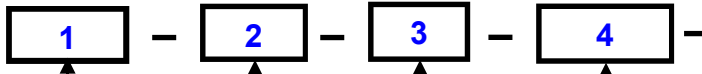-Values other than 100 ohms (500ohms, 1000ohms, etc.)
-Class A elements

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Rigid Style RTD

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Consult for these other options:
-Values other than 100 ohms
(500ohms, 1000ohms, etc.)
-Class A elements

Sheat Material

Code	Material
304	304 SS
316	316 SS

Sheath Diameter

Code	Diameter
1	1/8"
2	3/16"
3	1/4"
4	3/8"

Sheath Length
Specify length in "Inches"

# of wires

Termination Style

Code	Description	
P	Standard RTD Plug	
J	Standard RTD Jack	

Example: EH100-2-304-12-3-P

This example calls out a 100-ohm .00385 curve, 3/16" OD probe, 304 stainless steel, 12" long, 3 wire, with a male plug.

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Rigid Style RTD Assemblies

Part # Builder

| 1 | – | 2 | – | 3 | – | 4 | – |

Curve: Ohms Change Per °C
Specify curve

Code	Description
E100	.00385 400°F
EH100	.00385 800°F
A100	.003916 400°F
AH100	.003916 800°F

Consult for:
-Values other than 100 ohms

Sheat Material Diameter

Code	Diameter
1	1/8"
2	3/16"
3	1/4"
4	3/8"

Other diameters & sheath materials available

Sheat Material

Code	Material
304	304 SS
316	316 SS

Sheath Length

Specify length in "Inches"

| # of wires | – | 5 | – | 6 | – | 7 |

Lead Configuration

Optional Transmitter

Code	Material	Temp Range
70 MQ	4-20 MA	Specify
0	None	—

Termination

Code	Material
SHA	1/2 NPT Aluminum Head
SCA	Compression Fitting lockup w/ Aluminum head

Temperature Range

Specify Temperature Range
Temperature to be programmed into the transmitter

Other Sheath diameters available
Other Sheath materials available

Other heads available
For Custom applications please call

Meltbolt Rigid Style RTD
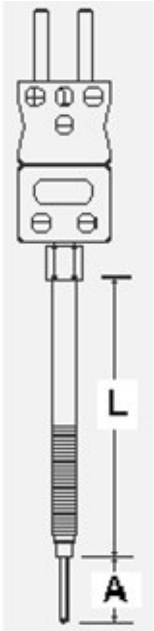
Fiberglass Insulated	"A" length	"L Length
Catalog Number	Probe Length	Bolt Length
RMT28-1	Flush	3"
RMT28-2	1/4"	3"
RMT28-3	1/2"	3"
RMT28-4	3/4"	3"
RMT28-5	1"	3"
RMT28-6	Flush	6"
RMT28-7	1/4"	6"
RMT28-8	1/2"	6"
RMT28-9	3/4"	6"
RMT28-10	1"	6"

Other Bolt Sizes and Probe lengths available

When building a part number:
Specify:
1) Catalog number
2) Curve, "EH100" .00385 European Curve
   "AH100" .00392 American Curve
3) Number of wires 2,3,4
Notes:
-Consult for these other options:
-Larger Diameters
-Values other than 100 ohms (500 ohms, 1000ohms, etc.)
-Class A elements

Optional Notes:
-Consult for other "A" (probe) lengths, as well as other "L"(bolt) lengths.

Example: RMT28-1-EH100-3
This example calls out at meltbolt style RTD, with a 3" bolt, flush tip, a .00385 curve, with a 3 wire construction.

Meltbolt Extension Style RTD
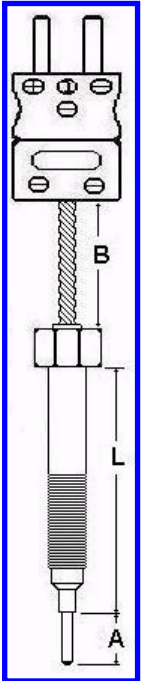
Fiberglass Insulated	"A" length	"L Length
Catalog Number	Probe Length	Bolt Length
MT28-21	Flush	3"
MT28-2	1/4"	3"
MT28-23	1/2"	3"
MT28-24	3/4"	3"
MT28-25	1"	3"
MT28-26	Flush	6"
MT28-27	1/4"	6"
MT28-28	1/2"	6"
MT28-29	3/4"	6"
MT28-30	1"	6"

Other Bolt Sizes and Probe lengths available

When building a part number:
Specify:
1)Catalog number
2)Curve: (Ohms change per degrees °C)
    "EH" .00385 European Curve
    "AH" .00392 American Curve
3)Number of wires 2,3,4

Notes:
-Consult ECS for these other options:
-Larger Diameters
-Values other than 100 ohms (500 ohms, 1000ohms, etc.)
-Class A elements

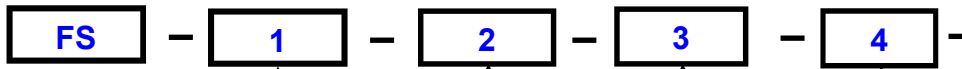**Optional Notes:** Consult for other "A" (probe) lengths, as well as other "L"(bolt) lengths.

Example: RMT28-21-EH100-3
*This example calls out a meltbolt extension style RTD, with a 3" bolt, flush tip,
 .00385 curve, and a 3-wire construction*

E= 3/4"
F= 1"
G= .143"
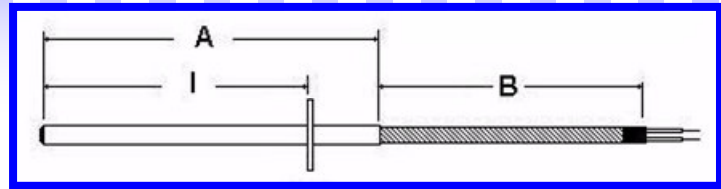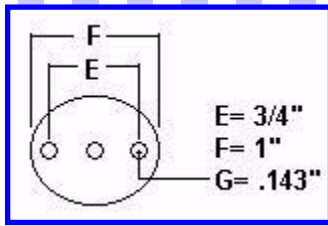
Flange Style Thermocouple & RTD

Part # Builder

FS – 1 – 2 – 3 – 4 –

ISA Calibration

Code	Description
J	Type-J
K	Type-K
T	Type-T
E	Type-E
385	00385/100 ohm
392	00392/100 ohm

Sheat Material Diameter

Code	Diameter
1	1/8"
2	3/16"
3	1/4"

Sheat Material

Code	Material
304	304 SS
316	316 SS

Sheath Length

"A"= Overall Proble Length
"I"= Insertion Length
1" behind the flange is Standard

5 – 6 – 7 – 8 – # of wires

Measuring Junction

Code	Junction type
G	Grounded
U	Un-grounded
E	Exposed

Extesion Wire Material

Code	Material
GB	Fiberglass Braid
SB	Stainless Steel Braid
FH	Flex Armor-hose
TT	Teflon
KK	Kapton

Extension Wire Length (Inches)

Specify Length of extension wire in "inches"

Termination Styles

Code	Description	
14	Spade Lugs	
15	Standard Plug	
16	Standard Jack	
17	MiniPlug	
18	Mini-Jack	

Example TC:
FS-J-2-304-A6-I5-G-SB48-P
Example RTD:
FS-385-2-304-A6-I5-SB48-ST-3

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Termination Style
(Thermocouples & RTDs)

Terminations Styles for Thermocouples

Style 1

Style 2

Style 3

Style 4

Style 5

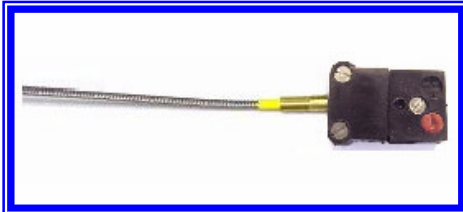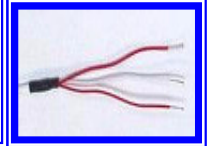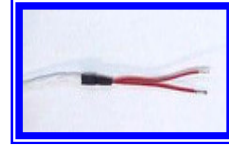## Terminations Styles for RTDs

Style 1 2 or 3 Wire

Style 2 2 Wire

Style 3 2 Wire

Style 4 3 Wire

Style 5 3 Wire

PLEASE NOTE: ALL THERMOCOUPLES COME WITH SPADE LUGS ON THE LEAD ENDS. ADD "Z175" TO END OF THE PART # FOR BARE WIRES