

Extension Lead wire type Thermocouple (160 series)

Applications

The sensor is placed inside a flexible metal sheath. With or without extension cable, process connection on request. If fitted, the extension cable can be provided with PVC, silicone, teflon or fiber glass insulation the soldering between the extension cable and the sheathed cable is encased in a sealed sleeve.

- Flexible, small probes for machines, chemical plant
- For low-Pressure, low velocity fluid and measurements requiring short response time
- For a wide range of media: vapors, gases, liquids and non-abrasive substances, provided that these are compatible with the sheath material



Standard Specification Overview

Element type

- K / E / J / T / N type

Sheath Out Diameter (mm)

- 1.6 / 3.2 / 4.8 / 6.4 / 8.0 / etc

Number of Conductor wire

- 2-wires / 4-wires

Number of Element

- Single / Double

Sheath Material

- 310 SS / 316 SS / 446 SS / 321 SS / Inconel 600 / etc

Accuracy

- Class 1 (Special), Class 2 (Standard)
 - * Class 1, 2 (DIN/IEC 584-2, BS/EN 60584-2, JIS C1602)
 - * Special, Standard (ASTM E 230, E988, ISA MC 96.1)

Operating Temperature Range

- -200 ~ 1200°C

Hot Junctions

- Grounded / Ungrounded / Exposed

Ordering Information for 160 Series

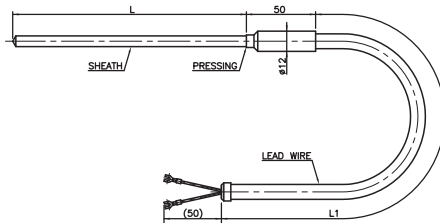
Model	Description		
160	Extension Lead Wire Thermocouple		
Code (1)	Connection Head type		Explosion Proof
1	Explosion Proof Aluminum Head (Dual Conduits)		Ex d IIC T6
2	Explosion Proof Aluminum Head (Single Conduits)		Ex d IIC T6
3	General Aluminum Head (Single Conduits)		Weatherproof (IP65)
4	General Stainless Steel Head (Single Conduits)		Weatherproof (IP65)
5	None Head (Extended Lead Wire)		N/A
Code (2)	Element Type	Thermocouple Wire Alloys	Temperature Range
K	Thermocouple "K"	Chromel / Alumel	-200 ~ 1200°C
E	Thermocouple "E"	Chromel / Constantan	-200 ~ 800°C
J	Thermocouple "J"	Iron / Constantan	0 ~ 750°C
T	Thermocouple "T"	Copper / Constantan	-200 ~ 350°C
N	Thermocouple "N"	Nicrosil/Nisil	-200~1250°C
Code (3)	Terminal		
S	Single Junction		
D	Double Junction		
Code (4)	No. of Conductor wire		
2	2-wire (Single)		
4	4-wire (Double)		
Code (5)	Tip shape		
G	Grounded tip		
U	Ungrounded tip		
S	Exposed		
Code (6)	Extension lead type		
FS	Flexible Copper shield type		
FF	Flexible Copper shield with compression fitting		
FA	Flexible Armored type		
FQ	Flexible Armored with compression fitting		
BA	Flexible Armored with Bayonet spring load type		
BS	Bayonet spring load type		
Code (7)	Extension Length (mm)		
2000	2000		
XXXX	Others		
Code (8)	Sheath Material		
A	304 SS		
B	316/316L SS		
C	INCONEL 600		
D	310 SS		
E	446 SS		
F	347 SS		

X	Others	
Code [9]	Sheath Outer Diameter	
31	1.6mm	
32	3.2mm	
34	4.8mm	
36	6.4mm	
38	8.0mm	
Code [10]	Process Connection Size	Material
A	None	None
B	1/2" (15A)	304 SS
C	3/4" (20A)	304 SS
D	1" (25A)	304 SS
E	1-1/2" (40A)	304 SS
F	2" (50A)	304 SS
G	1/2" (15A)	316 SS
H	3/4" (20A)	316 SS
I	1" (25A)	316 SS
J	1-1/2" (40A)	316 SS
K	2" (50A)	316 SS
Z	Other	
Code [11]	Process Connection Type	
0	None	
2	PT	
3	PF	
4	NPT	
8	NPS	
9	Compression fitting connector	
F01	ANSI 150# RF	
F02	ANSI 150# FF	
F03	ANSI 300# RF	
F04	ANSI 300# FF	
F05	ANSI 600# RF	
F15	JIS 10K RF	
F16	JIS 10K FF	
F17	JIS 20K RF	
F18	JIS 20K FF	
F99	Others	
Code [12]	Sensor Immersion Length (L)	
L0100	100mm	
L0150	150mm	
L0200	200mm	
L0250	250mm	
L0300	300mm	
L0350	350mm	

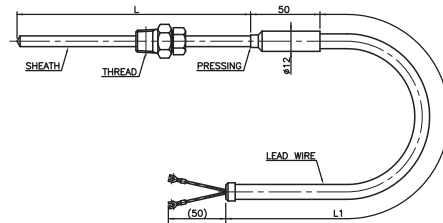
L0400	400mm
L0450	450mm
L0500	500mm
L0550	550mm
L0600	600mm
L0700	700mm
L0800	800mm
L0900	900mm
L1000	1000mm
XXXXX	Others
Code (13)	Tolerance Grade
C1	Class 1 (Class 0.4) DIN / IEC / EN / JIS I Special ($\pm 0.4\%$) ASTM / ISA
C2	Class 2 (Class 0.75) DIN / IEC / EN / JIS I Standard ($\pm 0.75\%$) ASTM / ISA
Code (14)	Calibrate certifications
N	Not apply
T1	Test Report by Manufacturer
T2	Test Report by KOLAS (ILAC-MRA)
Code (15)	Accessory Options
0	Not apply
1	Thermowell
M2	2" Mounting Bracket (2-hole)
M4	2" Mounting Bracket (4-hole)
X	Others
Sample Ordering Code : Thermocouple 1601KS2GFS2000B36B3L0150C1N1	
* The standard specification and price are subject to change without prior notice	

Thermocouple EXTENSION LEAD WIRE TYPE (160 Series)

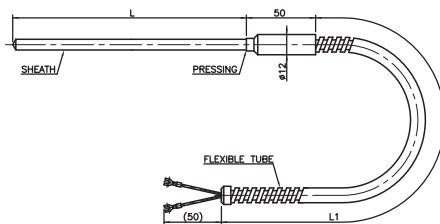
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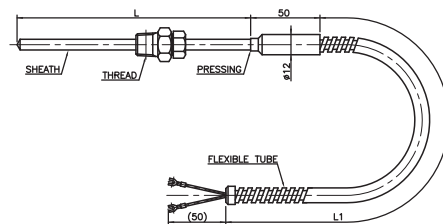
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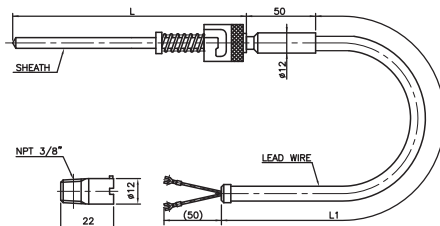
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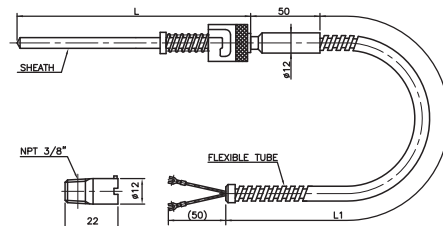
1601-FQ



1601-B5



1601-BA



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