

Series 58C Platinum RTD

Rosemount Series 58C Sensors are available in 12-, 24-, 36-, and 48-inch (X) lengths and may be shortened to any desired length with an ordinary tube cutter. This cut-to-fit feature eliminates the need to stock a large selection of sensors in many specific lengths. Table 26 shows the interchangeability of the Series 58C Sensor.

Table 26. Series 58C Interchangeability (IEC 751 Class B)

±0.55 °C (±0.99 °F) at -50 °C (-58 °F)
±0.30 °C (±0.54 °F) at 0 °C (32 °F)
±0.80 °C (±1.44 °F) at 100 °C (212 °F)
±1.30 °C (±2.34 °F) at 200 °C (392 °F)

Specifications

Performance specifications

Temperature range

-50 to 200 °C (-58 to 392 °F)

Maximum hysteresis

±0.09% of operating temperature range

Stability

±0.035% maximum ice-point resistance shift following 1,000 hours at maximum specified temperature (200 °C)

Insulation resistance

500 × 10⁶ ohms minimum insulation resistance when measured at 50 Vdc at room temperature

Environmental specifications

Humidity limits

No permanent rear seal is installed

Quality assurance

Each sensor is subjected to a resistance accuracy test at 0 °C and an insulation resistance test

Physical specifications

Sheath material

316 SST

Lead wires

PTFE-insulated, nickel-coated, 24-gauge stranded copper wire

Rosemount 58C Cut-to-Fit Sensor

The Rosemount 58C Cut-to-Fit Sensor has designs that provide flexible and reliable temperature measurements in process environments.

Features include:

- Industry-standard RTD sensor design
- Cut-to-fit eliminates need to stock large selection of sensors in specific lengths
- 12-, 24-, 36-, and 48-in. lengths available

Table 15. Series 58C Cut-to-Fit RTD Sensors

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery lead time. The Expanded offering is subject to additional delivery lead time.

Model	Product description	
0058C	Platinum Resistance Temperature Sensor	
Connection head		
D	Rosemount Aluminum Connection Head with 1/2-in. Entries	★
R	Aluminum Connection Head, Six Terminals, Flat Cover, Unpainted	★
T	Aluminum Connection Head, Six Terminals, Extended Cover, Unpainted	★
P	Aluminum Connection Head, Six Terminals, Flat Cover, Painted	★
L	Aluminum Connection Head, Six Terminals, Extended Cover, Painted	★
N	Sensor only with 6-in. PTFE-insulated, 24-gauge Lead Wires	★
C	Polypropylene Connection Head	
G	Rosemount SST Connection with 1/2-in. Entries	
Sensor immersion length		
1200	12-in.	★
2400	24-in.	★
3600	36-in.	★
4800	48-in.	★
Mounting adapter		
NNN	None	★
C01 ⁽¹⁾	One-compression Fitting 1/2-14 ANPT	★
C02 ⁽¹⁾	Two-compression Fittings 1/2-14 ANPT	★
SNN	Spring-loaded Fitting 1/2-14 ANPT	★

(1) The only difference between C01 and C02 is that the C01 includes one fitting, and the C02 option includes two fittings.

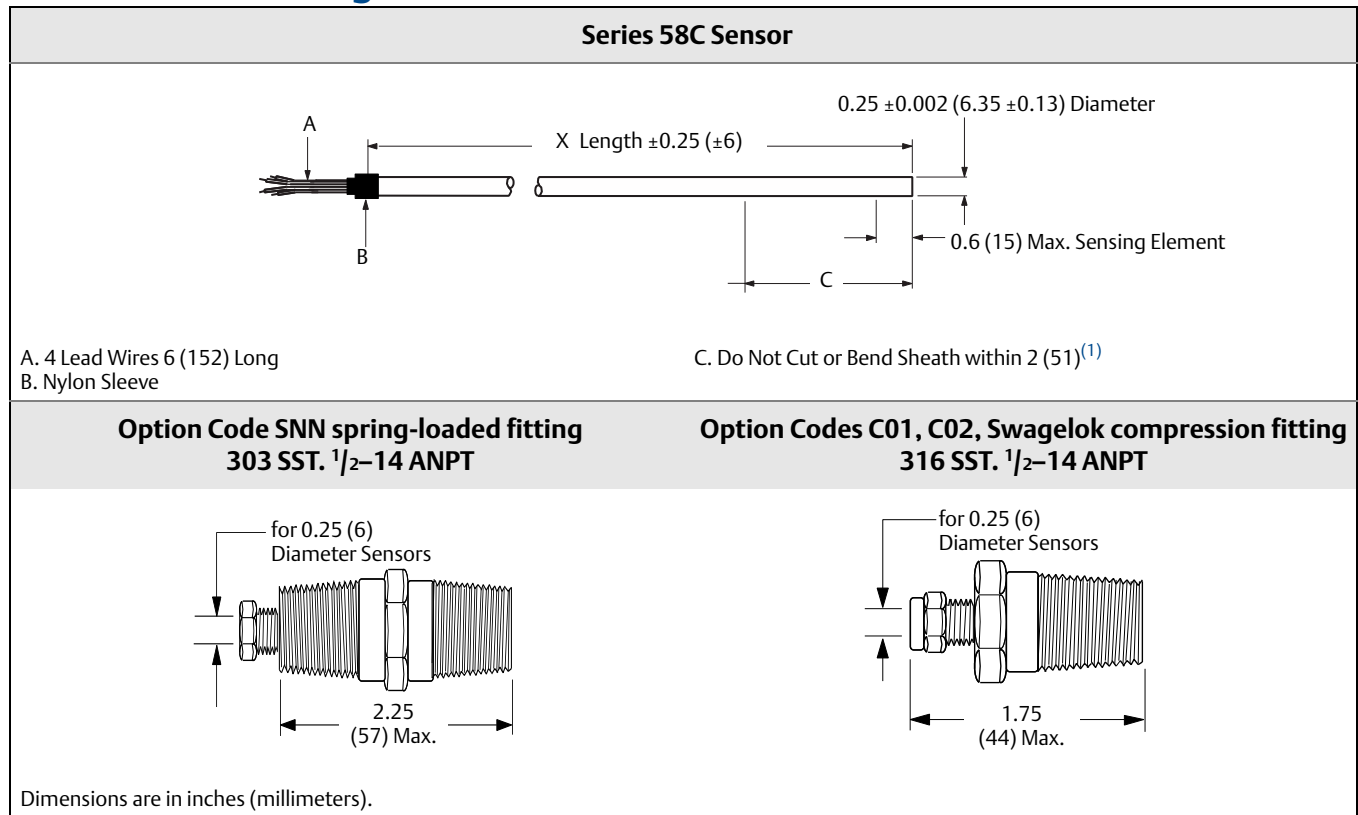
Table 16. Ordering Example

Typical Model Number	Model	Connection head	Sensor length	Mounting adapter
	0058C	R	1200	SNN

Table 17. Series 58C Spare Parts List (specify spare part number separately when ordering mounting adapters)

Mounting adapters	Option code	Spare part number
Compression fitting 1/2-14 ANPT	C01 and C02	C07961-0008
Spring loaded fitting 1/2-14 ANPT	SNN	00058-0010-0001

Dimensional drawings



(1) Do not cut all the way through the sensor sheath when cutting the sensor to length. Damage to the sensor wires could result. To prevent damage to the sensor wires, score the sheath considerably with a tube cutter and gently break off the excess.