RTD-FF

-65°C to +200°C



Construction
Conductor: Silver Plated Copper or Nickel Plated Copper · Stranded
Core Insulation: Extruded · FEP
Cabling: Laid Up · 3-core concentric twist
Core Identification: 3-wire IEC 60751 color code (2 Red + 1 White)
Jacket: Extruded · FEP

Thermal Characteristics
Operating Temperature: -65°C to +200°C

Electrical Characteristics
Signal Circuit Duty: Low-voltage RTD excitation and bridge measurement signal circuits only (not rated for mains power distribution); extruded core insulation is factory dielectric-verified at 1000 V AC for 1 min.

Application
PT100 and RTD Resistance Thermometry: For three-wire resistance thermometer lead connections between RTD sensors, transmitters and temperature controllers.
Autoclaves, Cryogenic Chambers and Test Rigs: For precision thermal profiling in aerospace autoclaves, environmental test chambers, semiconductor tools and laboratory instrumentation.
Sensors and Instrumentation: For connections between sensors, measuring instruments and associated control equipment.

General Characteristics
Low-Resistance Lead Compensation: Matched three-conductor copper construction minimizes lead-wire resistance imbalance in bridge-connected RTD circuits.
Chemical Resistance: Resistant to chemical exposure, helping protect the cable covering against deterioration in chemically demanding environments.
Moisture Resistance: Resistant to moisture and humidity, helping maintain the integrity of the cable covering in damp environments.
High-Temperature Thermal Stability: Heat-resistant insulation and jacketing resist thermal aging, embrittlement and cut-through in elevated-temperature zones.

Standards & Approvals
IEC 60751: 3-wire platinum resistance thermometer (PT100 / PT1000) lead-cable configuration and color identification.
ASTM E1137: Industrial platinum resistance thermometry wiring compatibility.
ASTM B298: Silver-coated soft copper conductors for 200°C fluoropolymer RTD instrumentation service (ASTM B355 Class 2 optional).

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CASMO Part No.	Total Cores	Conductor				Insulation		Cable		
		Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Nom. Core O.D. (mm)	Nom. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)
710353C26-SS-XX	3	26	7	0.16	0.48	0.2	0.9	0.5	2.9	0.2
710353C24-SS-XX	3	24	7	0.2	0.6	0.2	1.0	0.5	3.2	0.2
710353C22-SS-XX	3	22	7	0.254	0.76	0.2	1.2	0.5	3.6	0.2
710353C20-SS-XX	3	20	7	0.32	0.96	0.2	1.4	0.5	4.0	0.2
710353C18-SS-XX	3	18	7	0.39	1.17	0.25	1.7	0.5	4.7	0.3
710353C16-SS-XX	3	16	19	0.3	1.5	0.25	2.0	0.5	5.3	0.3
710353C14-SS-XX	3	14	19	0.37	1.85	0.25	2.4	0.5	6.2	0.3

Table Notes

* "-SS-" = stranded silver-plated copper conductor (standard for 200°C FEP RTD cable; "-NS-" 2% nickel-plated copper optional). Standard 3-core IEC 60751 configuration (2 Red + 1 White); 2-core (2C) and 4-core (4C) constructions available upon request.

† "-XX" = outer jacket color code: RD Red (standard), WH White, BK Black, or GY Grey (3-core identification per Color Code Chart below).

COLOR CODE CHART					
Cond. #	Color	Cond. #	Color	Cond. #	Color
1	Red (Lead A)	2	Red (Lead A')	3	White (Sense B)

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