RTD-FFP

-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
Braid: Stainless steel wire overbraid (304 SS)

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 RTD thermal profiling in aerospace autoclaves, environmental test chambers, semiconductor tools and laboratory instrumentation.
Process & Plant RTD Instrumentation: For Pt100 / Pt1000 resistance sensor lead circuits across chemical, petrochemical, pharmaceutical and industrial process plants.

General Characteristics
Low-Resistance Lead Compensation: Matched three-conductor copper construction minimizes lead-wire resistance imbalance in bridge-connected RTD circuits.
Stainless Steel Overbraid Protection: Woven 304 stainless steel wire armor protects the cable against mechanical abrasion, cut-through and crush loads.
Chemical Resistance: Resistant to chemical exposure, helping protect the cable covering against deterioration in chemically demanding 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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CABLES FOR EXTREMES

RTD-FFP

-65°C to +200°C



CASMO Part No.	Total Cores	Conductor				Insulation		Nom. Jkt. Thickness (mm)	Nom. Shield Thickness (mm)	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. O.D. (mm)	O.D. Tolerance ± (mm)
710363C26-SS-XX	3	26	7	0.16	0.48	0.2	0.9	0.5	0.2	3.3	0.2
710363C24-SS-XX	3	24	7	0.2	0.6	0.2	1.0	0.5	0.2	3.6	0.2
710363C22-SS-XX	3	22	7	0.254	0.76	0.2	1.2	0.5	0.2	4.0	0.2
710363C20-SS-XX	3	20	7	0.32	0.96	0.2	1.4	0.5	0.2	4.4	0.2
710363C18-SS-XX	3	18	7	0.39	1.17	0.25	1.7	0.5	0.2	5.1	0.3
710363C16-SS-XX	3	16	19	0.3	1.5	0.25	2.0	0.5	0.2	5.7	0.3
710363C14-SS-XX	3	14	19	0.37	1.85	0.25	2.4	0.5	0.2	6.6	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" = FEP inner jacket color code under natural 304 stainless steel wire overbraid: 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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