RTD-VVP

-20°C to +105°C



Construction
Conductor: Tinned Copper · Stranded
Core Insulation: Extruded · PVC
Cabling: Laid Up · 3-core concentric twist
Core Identification: 3-wire IEC 60751 color code (2 Red + 1 White)
Jacket: Extruded · PVC
Braid: Stainless steel wire overbraid (304 SS)

Thermal Characteristics
Operating Temperature: -20°C to +105°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.
Industrial Automation: For power, signal or control connections within industrial automation systems, as specified for the selected cable construction.
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.
Stainless Steel Overbraid Protection: Woven 304 stainless steel wire armor protects the cable against mechanical abrasion, cut-through and crush loads.
Abrasion Resistance: Resistant to abrasion, helping protect the cable surface against wear caused by rubbing and handling.
Moisture Resistance: Resistant to moisture and humidity, helping maintain the integrity of the cable covering in damp environments.

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 B33: Tinned annealed copper conductors for 105°C RTD instrumentation service.

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CABLES FOR EXTREMES

RTD-VVP

-20°C to +105°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)
710333C26-TS-XX	3	26	7	0.16	0.48	0.3	1.1	0.9	0.2	4.6	0.2
710333C24-TS-XX	3	24	7	0.2	0.6	0.3	1.2	0.9	0.2	4.8	0.2
710333C22-TS-XX	3	22	7	0.254	0.76	0.3	1.4	1.0	0.2	5.4	0.2
710333C20-TS-XX	3	20	7	0.32	0.96	0.3	1.6	1.0	0.2	5.8	0.2
710333C18-TS-XX	3	18	7	0.39	1.17	0.4	2.0	1.0	0.2	6.7	0.3
710333C16-TS-XX	3	16	19	0.3	1.5	0.4	2.3	1.1	0.3	7.8	0.3
710333C14-TS-XX	3	14	19	0.37	1.85	0.5	2.9	1.1	0.3	9.0	0.3

Table Notes

* "-TS-" = stranded tinned copper conductor (standard for 105°C PVC RTD cable; "-SS-" silver-plated copper or "-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" = PVC 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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