RTD-VPV

-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)
Shield: Braid · Tinned copper braid (≥85%)
Jacket: Extruded · PVC

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.
Control Cabinets: For wiring within control cabinets, control panels and electrical assemblies.
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.
EMC Interference Shielding: Metallic shielding helps suppress electromagnetic interference and maintain signal integrity in electrically noisy environments.
Moisture Resistance: Resistant to moisture and humidity, helping maintain the integrity of the cable covering in damp environments.
Oil Resistance: Resistant to oil exposure, helping maintain the integrity of the cable covering in oily 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 and internal tinned copper EMI braid shield.

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CABLES FOR EXTREMES

RTD-VPV

-20°C to +105°C



CASMO Part No.	Total Cores	Conductor				Insulation		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. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)
710343C26-TS-XX	3	26	7	0.16	0.48	0.3	1.1	0.2	0.9	4.6	0.2
710343C24-TS-XX	3	24	7	0.2	0.6	0.3	1.2	0.2	0.9	4.8	0.2
710343C22-TS-XX	3	22	7	0.254	0.76	0.3	1.4	0.2	1.0	5.4	0.2
710343C20-TS-XX	3	20	7	0.32	0.96	0.3	1.6	0.2	1.0	5.8	0.2
710343C18-TS-XX	3	18	7	0.39	1.17	0.4	2.0	0.2	1.0	6.7	0.3
710343C16-TS-XX	3	16	19	0.3	1.5	0.4	2.3	0.3	1.1	7.8	0.3
710343C14-TS-XX	3	14	19	0.37	1.85	0.5	2.9	0.3	1.1	9.0	0.3

Table Notes

* "-TS-" = stranded tinned copper conductor with tinned copper braid EMI shield (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" = 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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