RTD-GGP

0°C to +480°C



Construction
Conductor: Nickel-Coated Copper (27%) or Pure Nickel · Stranded
Core Insulation: Braided · Fiberglass
Cabling: Laid Up · 3-core concentric twist
Core Identification: 3-wire IEC 60751 high-temperature tracer code (2 White w/ Red tracer + 1 Solid White)
Jacket: Braided · Fiberglass
Braid: Stainless steel wire overbraid (304 SS)

Thermal Characteristics
Operating Temperature: 0°C to +480°C
Saturant & Tracer Volatilization: High-temperature silicone resin saturant and organic dye tracers volatilize above +204°C while braided fiberglass insulation maintains continuous electrical separation up to +480°C; retain polarity tags at cold terminations.

Electrical Characteristics
Signal Circuit Duty: Dry-location low-voltage RTD measurement signal circuits only; porous braided fiberglass insulation is not voltage-rated for mains power circuits.

Application
PT100 and RTD Resistance Thermometry: For three-wire resistance thermometer lead connections between RTD sensors, transmitters and temperature controllers.
High-Temperature Ovens, Kilns and Heat Treatment: For high-temperature Pt100 / RTD resistance sensor lead wiring on industrial ovens, autoclaves, heat-treating equipment and thermal processing lines.
Process & Plant RTD Instrumentation: For Pt100 / Pt1000 resistance sensor lead circuits across power-generation, chemical, petrochemical and metallurgical facilities.

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.
High-Temperature Thermal Stability: Heat-resistant insulation and jacketing resist thermal aging, embrittlement and cut-through in elevated-temperature zones.
Mechanical Strength: Provides mechanical strength to withstand handling and installation stresses and help maintain cable integrity.

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 B355 Class 27 / ASTM B160: 27% nickel-coated copper conductors (standard for 480°C service) or optional Nickel 200 pure nickel conductors.

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CABLES FOR EXTREMES

RTD-GGP

0°C to +480°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)
710423C26-NC27-XX	3	26	7	0.16	0.48	0.2	0.9	0.2	0.2	2.7	0.2
710423C24-NC27-XX	3	24	7	0.2	0.6	0.2	1.0	0.2	0.2	3.0	0.2
710423C22-NC27-XX	3	22	7	0.254	0.76	0.2	1.2	0.2	0.2	3.4	0.2
710423C20-NC27-XX	3	20	7	0.32	0.96	0.2	1.4	0.2	0.2	3.8	0.2
710423C18-NC27-XX	3	18	7	0.39	1.17	0.2	1.6	0.2	0.2	4.2	0.2
710423C16-NC27-XX	3	16	19	0.3	1.5	0.2	1.9	0.2	0.2	4.9	0.2
710423C14-NC27-XX	3	14	19	0.37	1.85	0.2	2.3	0.2	0.2	5.8	0.2

Table Notes

* "-NC27-" = stranded 27% nickel-coated copper conductor (standard for 480°C fiberglass RTD cable). "-N-" = pure nickel conductor (optional). Standard 3-core IEC 60751 configuration (2 White w/ Red tracer + 1 Solid White); 2-core (2C) and 4-core (4C) constructions available upon request.

† "-XX" = fiberglass inner jacket tracer code under natural 304 stainless steel wire overbraid (WH White with Red tracer standard).

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

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