UL 5561

550°C, 300V



Construction
Conductor: Nickel-Coated Copper (27%) or Pure Nickel
Insulation: Wrapped · Mica tape
Braid: Varnished fiberglass with high-temperature finish

Thermal Characteristics
Operating Temperature: 550°C

Electrical Characteristics
Operating Voltage: 300V

Application
High-temperature internal wiring: Internal wiring of commercial cooking appliances, industrial ovens, kilns, furnaces, and high-temperature heating equipment.
Industrial heating & lighting leads: High-temperature lead wiring for cartridge heaters, band heaters, and industrial lighting fixtures.

General Characteristics
Thermal Shock & Oxidation Resistance: Inorganic insulation and plated conductor resist oxidation and rapid thermal shock.
Thermal & Aging Stability: Maintains dielectric integrity and mechanical stability under sustained thermal cycling and heat aging.
Braided Fiberglass Protection: Woven fiberglass outer braid reinforces the insulation against abrasion, fraying, and installation wear.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 5561.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Style 5561.

Fire Performance
Fire Retardant: VW-1 / FT1

CASMO Part No.	Conductor			Nom. Ins. Thickness (mm)	Nom. Braid Thickness (mm)	Nom. O.D. (mm)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)			
4210124/7-NC27-XX	24	7	0.2	0.44	0.2	2
4210122/7-NC27-XX	22	7	0.254	0.44	0.2	2.2
4210120/10-NC27-XX	20	10	0.254	0.44	0.2	2.3
4210118/16-NC27-XX	18	16	0.254	0.44	0.2	2.6
4210116/26-NC27-XX	16	26	0.254	0.44	0.2	2.9
4210114/41-NC27-XX	14	41	0.254	0.44	0.2	3.3
4210112/65-NC27-XX	12	65	0.254	0.44	0.2	3.7
4210110/103-NC27-XX	10	103	0.254	0.58	0.25	5
421018/163-NC27-XX	8	163	0.254	0.58	0.25	5.9
421016/260-NC27-XX	6	260	0.254	0.58	0.25	7
421014/413-NC27-XX	4	413	0.254	0.58	0.25	8.3

Table Notes

* "-NC27-" = 27% nickel-coated copper conductor (standard for 450°C–550°C). "-N-" = pure nickel conductor (optional).

† Color Code added after P/N (XX): Black=BK, White=WH, Red=RD, Green=GN, Brown=BN, Blue=BL, Orange=OR, Yellow=YW, Violet=VT, Grey=GY, Pink=PK, Tan=TN, Natural=NT.

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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