UL 5196

250°C, 600V



Construction
Conductor: Nickel Plated Copper or Nickel-Coated Copper (27%) or Pure Nickel
Insulation: Wrapped · PTFE
Insulation: Wrapped · Glass serve
Braid: Varnished fiberglass

Thermal Characteristics
Operating Temperature: 250°C

Electrical Characteristics
Operating Voltage: 600V

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 & 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.
Fluid & Chemical Inertness: Resists fuels, lubricants, hydraulic fluids, oils, acids, alkalis, and industrial solvents.

Standards & Approvals
UL 758: UL 758 Appliance Wiring Material, Style 5196.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Style 5196.

Fire Performance
Fire Retardant: VW-1 / FT1

CASMO Part No.	Conductor			Nom. Ins. Thickness (mm)	Nom. Braid Thickness (mm)	Nom. O.D. (mm)	Nom. Cable Weight (kg/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)				
4310224/7-NS-XX	24	7	0.2	0.38	0.2	2.4	7.07
4310222/7-NS-XX	22	7	0.254	0.38	0.2	2.5	11.9
4310220/10-NS-XX	20	10	0.254	0.38	0.2	2.7	14.88
4310218/16-NS-XX	18	16	0.254	0.38	0.2	2.9	19.35
4310216/26-NS-XX	16	26	0.254	0.38	0.2	3.3	25.3
4310214/41-NS-XX	14	41	0.254	0.38	0.2	3.6	34.23
4310212/65-NS-XX	12	65	0.254	0.38	0.2	4.1	47.62
4310210/103-NS-XX	10	103	0.254	0.38	0.2	5	71.43
431028/163-NS-XX	8	163	0.254	0.38	0.25	6	107.14
431026/260-NS-XX	6	260	0.254	0.51	0.25	7.6	178.57
431024/413-NS-XX	4	413	0.254	0.51	0.25	8.9	260.42
431022/168-NS-XX	2	168	0.5	0.51	0.25	10.6	401.79
431021/212-NS-XX	1	212	0.5	0.64	0.25	11.6	505.95
431021_0/268-NS-XX	1/0	268	0.5	0.64	0.25	13.3	625
431022_0/342-NS-XX	2/0	342	0.5	0.64	0.25	14.6	758.93
431023_0/430-NS-XX	3/0	430	0.5	0.64	0.25	16	937.5

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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	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)				
431024_0/538-NS-XX	4/0	538	0.5	0.64	0.25	17.6	1130.96

Table Notes

* "-NS-" = nickel-plated copper conductor (standard for 250°C). "-NC27-" = 27% nickel-coated copper conductor (optional). "-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.

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