UL 5128

450°C, 300V



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

Thermal Characteristics
Operating Temperature: 450°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 5128.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Style 5128.

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)			
4410224/7-NC27-XX	24	7	0.2	0.381	0.178	1.8
4410222/7-NC27-XX	22	7	0.254	0.381	0.178	2
4410220/10-NC27-XX	20	10	0.254	0.381	0.178	2.1
4410218/16-NC27-XX	18	16	0.254	0.381	0.178	2.4
4410216/26-NC27-XX	16	26	0.254	0.381	0.178	2.7
4410214/41-NC27-XX	14	41	0.254	0.381	0.178	3.1
4410212/65-NC27-XX	12	65	0.254	0.381	0.178	3.6
4410210/103-NC27-XX	10	103	0.254	0.508	0.381	5.1
441028/163-NC27-XX	8	163	0.254	0.508	0.381	6
441026/260-NC27-XX	6	260	0.254	0.508	0.381	7.1
441024/413-NC27-XX	4	413	0.254	0.508	0.381	8.4

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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