UL 5359

450°C, 600V



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

Thermal Characteristics
Operating Temperature: 450°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 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 5359.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Style 5359.

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)			
4410430/7-NC27-XX	30	7	0.1	0.41	0.18	1.6
4410428/7-NC27-XX	28	7	0.127	0.41	0.18	1.7
4410426/7-NC27-XX	26	7	0.16	0.41	0.18	1.8
4410424/7-NC27-XX	24	7	0.2	0.41	0.18	1.9
4410422/7-NC27-XX	22	7	0.254	0.41	0.18	2
4410420/10-NC27-XX	20	10	0.254	0.41	0.18	2.2
4410418/16-NC27-XX	18	16	0.254	0.41	0.18	2.5
4410416/26-NC27-XX	16	26	0.254	0.41	0.18	2.8
4410414/41-NC27-XX	14	41	0.254	0.41	0.18	3.2
4410412/65-NC27-XX	12	65	0.254	0.41	0.18	3.6
4410410/103-NC27-XX	10	103	0.254	0.51	0.38	5.1
441048/163-NC27-XX	8	163	0.254	0.51	0.38	6
441046/260-NC27-XX	6	260	0.254	0.51	0.38	7.1
441044/413-NC27-XX	4	413	0.254	0.51	0.38	8.4
441042/168-NC27-XX	2	168	0.5	0.64	0.51	10.5
441041/212-NC27-XX	1	212	0.5	0.64	0.51	11.5
441041_0/268-NC27-XX	1/0	268	0.5	0.64	0.51	12.7

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)			
441042_0/342-NC27-XX	2/0	342	0.5	0.64	0.51	14
441043_0/430-NC27-XX	3/0	430	0.5	0.64	0.51	15.4
441044_0/538-NC27-XX	4/0	538	0.5	0.64	0.51	17

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.

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