UL 5107

450°C, 600V



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

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 & power leads: High-temperature lead wiring for band heaters, cartridge heaters, foundry equipment, and industrial furnaces.

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 5107.
CSA C22.2 No. 210: cUL Appliance Wiring Material, Style 5107.

Fire Performance
Fire Retardant: VW-1 / FT1

CASMO Part No.	Conductor			Nom. Ins. Thickness (mm)	Nom. Braid Thickness (mm)	Nom. O.D. (mm)	Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)				
4410122/7-NC27-XX	22	7	0.254	0.64	0.28	2.60	76.5
4410120/7-NC27-XX	20	7	0.320	0.64	0.28	2.80	47.7
4410118/16-NC27-XX	18	16	0.254	0.64	0.28	3.10	30.1
4410116/26-NC27-XX	16	26	0.254	0.64	0.28	3.40	19.0
4410114/41-NC27-XX	14	41	0.254	0.64	0.28	3.80	11.9
4410112/65-NC27-XX	12	65	0.254	0.64	0.38	4.50	7.48
4410110/105-NC27-XX	10	105	0.254	0.76	0.38	5.50	4.70
441018/133-NC27-XX	8	133	0.287	0.89	0.46	7.10	2.96
441016/133-NC27-XX	6	133	0.361	1.02	0.46	8.50	1.86
441014/133-NC27-XX	4	133	0.455	1.02	0.51	10.10	1.17
441012/259-NC27-XX	2	259	0.411	1.14	0.51	12.20	0.737
441011/259-NC27-XX	1	259	0.462	1.27	0.58	13.60	0.585
441011_0/1045-NC27-XX	1/0	1045	0.254	1.27	0.58	14.80	0.463
441012_0/1330-NC27-XX	2/0	1330	0.254	1.40	0.64	16.50	0.368
441013_0/1672-NC27-XX	3/0	1672	0.254	1.40	0.64	18.00	0.292
441014_0/2109-NC27-XX	4/0	2109	0.254	1.52	0.64	19.80	0.231

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

© CASMO CABLE LLC. All rights reserved.

UL 5107

450°C, 600V



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.

© CASMO CABLE LLC. All rights reserved.