# UL 3513

**-60°C to +200°C, 600V**



## Construction
**Conductor:** Nickel Plated Copper or Tinned Copper · Stranded
**Insulation:** Extruded · Silicone rubber
**Braid:** Fiberglass

## Thermal Characteristics
**Operating Temperature:** -60°C to +200°C

## Electrical Characteristics
**Operating Voltage:** 600V

## Application
**Internal Equipment Wiring:** For internal wiring of electrical and electronic equipment, subject to the applicable voltage, temperature and installation requirements.
**Appliances:** For internal wiring of household and commercial appliances, subject to the applicable equipment requirements.
**Control Cabinets:** For wiring within control cabinets, control panels and electrical assemblies.

## General Characteristics
**Abrasion Resistance:** Resistant to abrasion, helping protect the cable surface against wear caused by rubbing and handling.
**Low-Temperature Flexibility:** Maintains flexibility at low temperatures, facilitating cable routing and handling in cold environments.
**Moisture Resistance:** Resistant to moisture and humidity, helping maintain the integrity of the cable covering in damp environments.

## Standards & Approvals
**UL 758:** UL 758 Appliance Wiring Material, Style 3513.
**CSA C22.2 No. 210:** cUL Appliance Wiring Material, Style 3513.

## Fire Performance
**Fire Retardant:** VW-1 / FT1 / FT2

| CASMO Part No. | Conductor | | | | Insulation | | Nom. Braid Thickness (mm) | Nom. O.D. (mm) | Max. DCR @20°C (Ω/km) |
|---|---|---|---|---|---|---|---|---|---|
| | Conductor Size (AWG) | No. Of Strands | Nom. Strand Dia. (mm) | Nom. Conductor Dia. (mm) | Nom. Ins. Thickness (mm) | Min. Ins. Thickness (mm) | | | |
| 3211720/7-NS2-XX | 20 | 7 | 0.32 | 0.96 | 0.76 | 0.69 | 0.16 | 2.80 | 37.9 |
| 3211718/16-NS2-XX | 18 | 16 | 0.254 | 1.20 | 0.76 | 0.69 | 0.16 | 3.05 | 23.9 |
| 3211716/26-NS2-XX | 16 | 26 | 0.254 | 1.49 | 0.76 | 0.69 | 0.17 | 3.35 | 15.0 |
| 3211714/41-NS2-XX | 14 | 41 | 0.254 | 1.88 | 0.76 | 0.69 | 0.17 | 3.75 | 9.45 |
| 3211712/65-NS2-XX | 12 | 65 | 0.254 | 2.36 | 0.76 | 0.69 | 0.18 | 4.25 | 5.94 |
| 3211710/105-NS2-XX | 10 | 105 | 0.254 | 3.00 | 1.14 | 1.02 | 0.11 | 5.50 | 3.68 |
| 321178/168-NS2-XX | 8 | 168 | 0.254 | 3.85 | 1.52 | 1.37 | 0.20 | 7.30 | 2.35 |
| 321176/266-NS2-XX | 6 | 266 | 0.254 | 4.85 | 1.52 | 1.37 | 0.20 | 8.30 | 1.48 |
| 321174/133-TS2-XX | 4 | 133 | 0.455 | 6.90 | 1.52 | 1.37 | 0.23 | 10.40 | 0.909 |
| 321172/259-TS2-XX | 2 | 259 | 0.405 | 8.50 | 1.52 | 1.37 | 0.25 | 12.05 | 0.577 |
| 321171/259-TS2-XX | 1 | 259 | 0.455 | 9.60 | 2.03 | 1.83 | 0.25 | 14.15 | 0.459 |
| 321171_0/259-TS2-XX | 1/0 | 259 | 0.511 | 10.80 | 2.03 | 1.83 | 0.28 | 15.40 | 0.364 |
| 321172_0/259-TS2-XX | 2/0 | 259 | 0.573 | 12.10 | 2.03 | 1.83 | 0.28 | 16.70 | 0.289 |
| 321173_0/259-TS2-XX | 3/0 | 259 | 0.644 | 13.60 | 2.03 | 1.83 | 0.30 | 18.25 | 0.229 |
| 321174_0/259-TS2-XX | 4/0 | 259 | 0.723 | 15.20 | 2.03 | 1.83 | 0.30 | 19.85 | 0.181 |

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### Table Notes

"-NS2-" = nickel-plated copper conductor with FT2 flame rating (standard for strand dia. < 0.381 mm); "-NS1-" = VW-1 / FT1 (optional). "-TS2-" = tinned copper conductor with FT2 flame rating (standard for strand dia. ≥ 0.381 mm); "-TS1-" = VW-1 / FT1 (optional).

Part No. code: XX = colour code — BK Black, WH White, RD Red, GN Green, BN Brown, BL Blue, OR Orange, YW Yellow, VT Violet, GY Grey, PK Pink, TN Tan, CL Clear.

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