

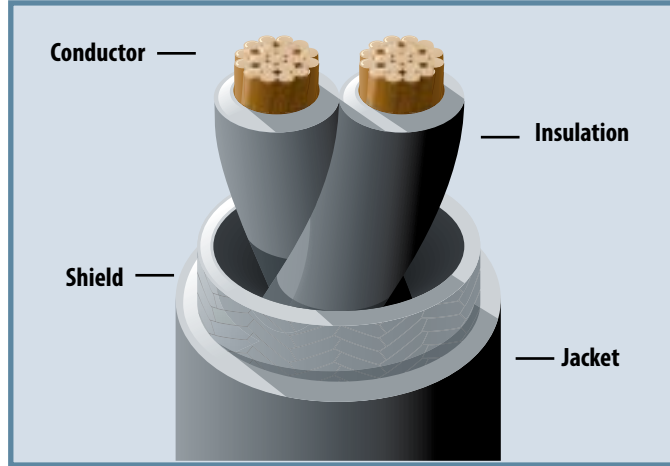
# Surprenant AD300®

## High Temperature Cable - 600V, -65° - 300°C

### APPLICATION

The AD300®-CABLE specification is used to describe both shielded and unshielded cable constructions for avionics, military vehicle, shipboard, missile, and other electronic applications. The specification allows the user a variety of construction choices. Conductor size, number of conductor, shielded or unshielded and jacketed or unjacketed, may all be specified using this document. Besides offering high temperature use, these cables have excellent resistance to common chemicals.

### Shielded and Unshielded Military Cable



### COMPONENT WIRE

Per AD300®

#### CONDUCTOR

Nickel Coated Copper and Alloy

#### INSULATION

Fluoropolymer

#### CABLE

1-15 Conductors

#### SHIELD

Various materials (shielded and unshielded)

#### JACKET

Fluoropolymer

#### TYPICAL PROPERTIES

**Blocking:** 300°C

**Cold Bend:** -65°C

**Accelerated Aging:** Oven Temperature, 310°C for 24 Hours

**Dielectric Withstand:** 1500 Vrms

**Flammability:** 30 Second (max) 3" (max); No flaming of tissue paper

**Jacket Tensile Strength:** 2500 psi min

**Jacket Elongation:** 150% min

**Spark Test (Jacket):** 1500 Vrms

#### Jacket Wall:

Cable OD .150" or smaller - (.005' Min - .0125' Max.)

Cable OD .250" - (.0075' Min - .0125' Max.)

Part Number Designation								
AD300	-	24	NC	3	N	30	- X/X/X	- X
Spec	ID Method	AWG	Wire Type	Number Conductors	Shield Type	Jacket Type	Component Colors	Jacket Color

### Identification Methods

Designation	Color Code
-	White & White with stripes per Table 3-1 (WC27500)
U	Alternate Color designation spelled out in part (MIL-STD-681)

### Shield Descriptions

Single Shield	Double Shield	Shield Material	Temp Rating
U	-	Not Shielded	300°C
N	Y	Nickel Plated Copper, Round	300°C

### Jacket Types

Single Jacket	Double Jacket	Jacket Material	Temp Rating
00	00	No Jacket	300°C
30	90	Extruded White Fluoropolymer	300°C

