

Basic (1 layer) Insulation DuPont™ ECtreme® ECA 3000

Product Information

Temperature Rating: Potential 300°C Rating * **Conductor:** 27 % Nickel plated copper, Solid or Stranded (ASTM B355)
Insulation: DuPont™ ECtreme® ECA 3000 **Size Range:** 8 AWG – 30 AWG
Compliances: RoHS Compliant **Voltage:** Potential 600 V Rating *

Insulation Information:

Insulation Type: Perfluoropolymer **Thermal:** Continuous Operating Temperature, 300°C
UL Flammability Rating: V-0 **Dielectric Constant:** 2.09 **Tensile Strength (psi):** 2280
Elongation (%): 194% **Abrasion Resistance:** Good **Bondability:** Poor
UV Resistance: Excellent **Chemical Resistance:** Excellent **Water Resistance:** Excellent
Underground Resistance: Excellent **Long Term Stability:** Excellent

ECA 3000 is a Perfluoropolymer compound with superior heat resistance, exceptional dielectric properties, and chemical resistance. Commonly used in applications that require a higher operating temperature.

Insulated Wire Information:

Part Number	AWG	Conductor OD		Insulated Wire OD	
		Inches	MM	Inches	MM
S8NC133ECC-10	8 (133/29)	0.1674	4.2520	0.1874	4.7599
S12NC19ECC-7	12 (19/25)	0.0855	2.1717	0.0995	2.5273
S14NC19ECC-7	14 (19/27)	0.0700	1.7780	0.0840	2.1336
S16NC19ECC-5	16 (19/29)	0.0546	1.3868	0.0646	1.6408
S25NC01ECC-5	25	0.0182	0.4623	0.0282	0.7163
S26NC01ECC-5	26	0.0160	0.4064	0.0260	0.6604
S30NC01ECC-4	30	0.0102	0.2591	0.0202	0.5131

*UL Approvals Pending

Bare Core Wire Specifications:

DCR per 10' @ 20°C

AWG	Core Wire Diameter			DC Resistance		
	Min. Dia.	Nom. Dia.	Max. Dia.	Min. Res.	Nom. Res.	Max. Res.
8 (133/29)	0.1660	0.1674	0.1689			0.008
12 (19/25)	0.0840	0.0855	0.0870			0.025
14 (19/27)	0.0670	0.0700	0.0710			0.034
16 (19/29)	0.0534	0.0546	0.0558			0.064
25	0.0181	0.0182	0.0183			0.396
26	0.0159	0.0160	0.0161			0.513
30	0.0101	0.0102	0.0103			1.273