



UL3817 125°C 3000V 306U



Application

Cardiff Cable's UL3817 306U single core wire is UL & CUL certified and suitable for the North American market. It is widely used in high-voltage electrical connections within industrial and residential electrical equipment, including electrical cabinet connectors and control rooms. It can also be used for connections in inverters and battery packs. The product offers enhanced flexibility, ease of installation, and space-saving benefits.

Construction

Conductor	Composed of finely stranded bare copper or tinned copper wires, conforming to UL758 and UL1581 standards.
Insulation	Made from a special XLPE compound.
Insulation Color	According to Cardiff Cable's standard specifications.

Technical Data

Rated Voltage	3000V UL & CUL
Test Voltage	7000V
Operating Temperature	For flexible installation: -15°C to +105°C For fixed installation: -40°C to +105°C
Minimum Bending Radius	Cross-sectional area < 6 AWG: 4 times the cable's outer diameter Cross-sectional area > 6 AWG: 8 times the cable's outer diameter
Insulation Resistance	≥ 20MΩ·km (at 20°C)
Flame Retardancy	Complies with VW-1, FT1, and FT2 standards
Environmental Requirements	Complies with RoHS standards

Order Number	Conductor Cross-Section (AWG)	Approx. Outer Diameter (mm)	Approx. Weight (kg/km)	Order Number	Conductor Cross-Section (AWG)	Approx. Outer Diameter (mm)	Approx. Weight (kg/km)
306 00026 ***	26	2.1	6.1	306 00004 ***	4	9.6	262.4
306 00024 ***	24	2.2	7.3	306 00002 ***	2	11.4	395.6
306 00022 ***	22	2.4	9.0	306 00001 ***	1	12.9	502.7
306 00020 ***	20	2.5	11.4	306 00101 ***	1/0	14.1	622.4
306 00018 ***	18	2.8	15.0	306 00201 ***	2/0	15.4	767.6
306 00016 ***	16	3.1	20.8	306 00301 ***	3/0	17.1	958.6
306 00014 ***	14	3.5	29.6	306 00401 ***	4/0	18.7	1187.0
306 00012 ***	12	4.0	42.7	306 00250 ***	250	20.6	1418.3
306 00010 ***	10	4.8	66.9	306 00300 ***	300	22.1	1674.7
306 00008 ***	8	6.4	111.3	306 00350 ***	350	23.5	1954.5
306 00006 ***	6	8.2	178.4	306 00400 ***	400	24.8	2222.6

Remarks:

** represent the core color

000 Green/Yellow	001 Black	002 Blue	003 Brown	004 Red	005 White	006 Grey
007 Purple	008 Pink	009 Orange	010 Transparent	011 Yellow	012 Green	013 Dark Blue