



# UL3820 125°C 1000V 769U



## Application

Cardiff Cable's UL3820 769U single core wire is UL & CUL certified and suitable for the North American market. It is widely used in electrical connections within industrial and residential electrical equipment, including electrical cabinet connectors, motor lead wires, and 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	1000V UL & CUL
Test Voltage	3000V
Operating Temperature	For flexible installation: -15°C to +125°C For fixed installation: -40°C to +125°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)
769 00026 ***	26	2.1	6.1	769 00004 ***	4	8.8	245.9
769 00024 ***	24	2.2	7.3	769 00002 ***	2	10.6	375.9
769 00022 ***	22	2.4	9.0	769 00001 ***	1	12.1	480.2
769 00020 ***	20	2.5	11.4	769 00101 ***	1/0	13.4	597.6
769 00018 ***	18	2.8	15.0	769 00201 ***	2/0	14.7	740.6
769 00016 ***	16	3.1	20.8	769 00301 ***	3/0	16.1	919.5
769 00014 ***	14	3.5	29.6	769 00401 ***	4/0	17.7	1144.0
769 00012 ***	12	4.0	42.7	769 00250 ***	250	19.7	1375.9
769 00010 ***	10	4.8	66.9	769 00300 ***	300	21.2	1629.0
769 00008 ***	8	6.3	109.6	769 00350 ***	350	22.6	1906.0
769 00006 ***	6	7.5	164.4	769 00400 ***	400	23.9	2171.3

**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