



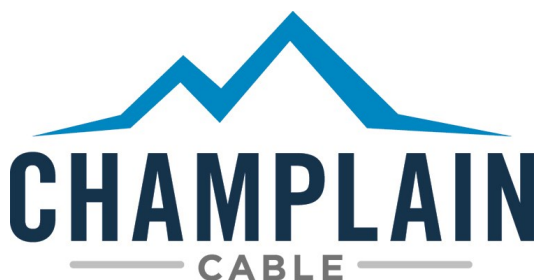
# 180B AWG Blocked Transmission Wire

180°C, 60V, Tin Copper

- Performs in Engines and Transmissions When Other Products Crack and Leak
- More Robust Performance for Today's Longer Warranties
- Blocks Fluid Migration Through Conductor Strands



Nom. Insulation Thickness in. mm.		Nom. Finished OD in. mm.		Nom. Finished Weight (lbs/mft)	Ampacity At 40°C in Free Air
.016	.41	.054	1.37	2.91	6
.016	.41	.063	1.60	3.96	11
.016	.41	.070	1.78	5.58	15
.016	.41	.081	1.98	7.34	21
.016	.41	.089	2.26	10.25	28





# 180B AWG Blocked Transmission Wire

## Property / Attribute

### Flex Life

Flex Test	Per Modified ISO 14572
-----------	------------------------

### Dielectric Strength

Dielectric Test	Wet Dielectric after 5 hour soak
-----------------	----------------------------------

### Flame Resistance

Flame Test	Maximum time after burn
------------	-------------------------

### Thermal Performance

Cold Bend	4 hours at temperature no cracks / breakdov
-----------	---

Temperature Rating	240 Hours @213°C heat aging
--------------------	-----------------------------

Temperature Rating	3000 Hours @180°C
--------------------	-------------------

### Mechanical Properties

Tensile	Minimum psi
---------	-------------

Elongation	Minimum %
------------	-----------

Abrasion	Sand Paper Resistance Length in.
----------	----------------------------------

Abrasion	Scrape Cycles
----------	---------------

Pinch	Pounds
-------	--------

### Hydrolysis Resistance

Hydrolysis Resistance	168 Hours @ 75°C salt water immersion and DC, no cracks, no dielectric failure
-----------------------	--

### Ozone Resistance

Ozone Test	192 Hours @ 65°C 100 pphm no cracks
------------	-------------------------------------

### Fluids

Engine Oil	ASTM D471, IRM-902
------------	--------------------

Gasoline	ASTM D471 Ref. Fuel C
----------	-----------------------

Brake Fluid	SAE-J-1703
-------------	------------

Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C
---------	--

Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene
-------------	---------------------------------------

Power Steering	ASTM D471, IRM-903
----------------	--------------------

Auto Transmission	Citgo #33123 SAE-J311
-------------------	-----------------------

Methanol	
----------	--

Engine Coolant	50% Ethylene Glycol + 50% distilled Water
----------------	---

Battery Acid	H <sub>2</sub> SO <sub>4</sub> Specific Gravity = 1.260 +/- .005
--------------	--

We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purpose. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products

128

May-25, R3



## Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

[www.champcable.com](http://www.champcable.com)