

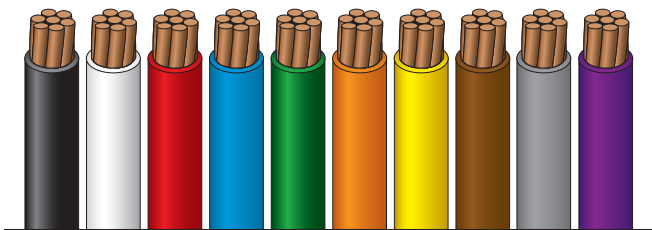
No Pulling Lubricant & **SMOOTH INSTALL**

ENHANCED SURFACE *Thermoset Single Conductors*

Not all insulations are created equal. ServicePRO-X® single conductors are insulated with crosslink polyethylene, a superior product compared to thermoplastic compounds. Service Wire's XLPE insulation eliminates the need for pulling lubricant, is easier to strip, and offers added protection against installation and environmental conditions. Conductors are available dual rated 600V/1kV in a wide range of true industry standard colors for easy phase ID.

XHHW-2
600V/1kV Copper
#14 AWG – 1000 Kcmil

USE-2 or RHW-2
600V/1kV Copper
#14 AWG – 1000 Kcmil



THE BENEFITS



No Pulling Lubricant Required

XLPE is a slicker insulation, eliminating the need for pulling lubricant on the jobsite.



True Color Conductors

Available in a wide range of vibrant, industry-standard colors for fast and easy phase ID.



Thermoset XLPE Insulation

Conductors are insulated with crosslinked polyethylene, which is more resistant to chemicals, ozone, and abrasions.



DEPENDABLE LEAD TIMES

Eliminate inventory and ship direct to the jobsite with quick lead times and dependable, damage-free delivery from any of our nationwide manufacturing facilities.

Not all insulations are created equal.

THHN/THWN-2 is a thermoplastic product, while XHHW-2 features a superior thermoset insulation. Thermoset is a low leakage insulation, Hospital Grade, and dual rated 600V/1kV. It uses XLPE (*cross-linked*) insulation instead of PVC and has substantially better insulation resistance. These properties make XHHW-2 more resistant to chemicals, ozone, and abrasions and more flexible at cold temperatures.

	THHN/THWN-2	XHHW-2
	Thermoplastic ² Insulation	Thermoset ¹ Insulation
VOLTAGE		
Voltage Rating	600V	600V/1kV (<i>dual rated</i>)
Dielectric Withstand Test, Water (#14 AWG - 1000 Kcmil)	1.5kV - 3.5kV	3.0kV - 6.0kV
Dielectric Constant (<i>Hospital Grade must be 3.5 or less</i>)	5.0 - 6.8	3.1
INSULATION RESISTANCE (Minimum)		
UL Required Insulation Resistance	225 - 665 MegΩ	645 - 2,875 MegΩ
Actual Insulation Resistance (<i>typical</i>)	300 - 700 MegΩ	100,000 MegΩ
Insulation Resistance (<i>after 12 week test</i>)	0.85 MegΩ	100,000 MegΩ
<i>Size</i>	<i>Insulation</i>	<i>Jacket</i>
14-12	15 mils	4 mils
10	20 mils	4 mils
8-6	30 mils	5 mils
4-2	40 mils	6 mils
1-4/0	50 mils	7 mils
250-500	60 mils	8 mils
600-750	70 mils	9 mils
TEMPERATURE		
Maximum Temperature	90°C Dry, Damp or Wet	90°C Dry, Damp or Wet
Minimum Temperature²	-10° C	-40° C
Emergency Overload Temperature	105° C	130° C
Maximum Short Circuit Temperature	150° C	250° C
OTHER PROPERTIES		
Crush Test Minimum (#14 AWG)	225 lbs.	1200 lbs.
Sunlight Resistance	#2 AWG & Larger	#14 AWG & Larger

¹Thermoset: A material that has been vulcanized by heat or other means and is substantially infusible and insoluble.

²Thermoplastic: A material that can be softened repeatedly by heating, and that can stiffen at temperatures lower than 10°C.

• Thermoplastic not recommended for DC applications.

Resistance: Based on 1000' in water. A higher resistance is desirable.

Comparison information gathered from NEC, UL 44, UL 83, and other industry standards.



For more information, visit servicewire.com/singles or call:

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