



## COPPERHEAD COMPARISON SHEET

Copperhead Reinforced Tracer Wire (Copper Clad Steel) vs. Solid Copper

SIZE	#14 AWG		#12 AWG		#10 AWG	
<i>Conductor Construction</i>	<b>CCS</b>	Solid CU	<b>CCS</b>	Solid CU	<b>CCS</b>	Solid CU
<i>Conductor OD</i>	<b>0.0641</b>	0.0641	<b>0.0808</b>	0.0808	<b>0.1091</b>	0.1091
<i>Insulation Material</i>	<b>HDPE</b>	THHN (nylon)	<b>HDPE</b>	THHN (nylon)	<b>HDPE</b>	THHN (nylon)
<i>Insulation Thickness</i>	<b>.030"</b>	.012"	<b>.030"</b>	.012"	<b>.030"</b>	.012"
<i>Nominal OD</i>	<b>.124"</b>	0.088	<b>.141"</b>	0.105	<b>.162"</b>	0.133
<i>Resistance per 1000 feet (Ohms)</i>	<b>8.4140</b>	2.5241	<b>5.2954</b>	1.5885	<b>3.3294</b>	0.9987
<i>Weight per 1000 feet (lbs)</i>	<b>15.5</b>	16.8	<b>22</b>	25.4	<b>32.5</b>	38.9
<i>Breaking Load (tensile) in lbs</i>	<b>250</b>	112	<b>380</b>	180	<b>600</b>	285
<i>Impact Force in in-lbs*</i>	<b>42</b>		<b>67.4</b>		<b>107.5</b>	
<b>Copperhead Part Number</b>	<b>1430HS</b>		<b>1230HS</b>		<b>1030HS</b>	
<i>Spool sizes available</i>	<b>500', 1000', &amp; 2500'</b>		<b>500', 1000', &amp; 2500'</b>		<b>500', 1000', &amp; 2500'</b>	

\* Measured with a falling weight (shovel simulation) tester; modeled from *Gardner Impact Tester* (ASTM D5420)

## COPPERHEAD Directional Boring Wire Specifications

SIZE	#12 EHS
<i>Conductor Construction</i>	<b>CCS</b>
<i>Conductor OD</i>	<b>0.0808</b>
<i>Insulation Material</i>	<b>HDPE</b>
<i>Insulation Thickness</i>	<b>.045"</b>
<i>Nominal OD</i>	<b>0.171</b>
<i>Resistance per 1000 feet (Ohms)</i>	<b>5.2954</b>
<i>Weight per 1000 feet (lbs)</i>	<b>22</b>
<i>Breaking Load (tensile) in lbs</i>	<b>1150</b>
<b>Copperhead Part Number</b>	<b>1245EHS</b>
<i>Spool sizes available</i>	<b>500', 1000', &amp; 2500'</b>

*Directional Drill Wire Comparison:*

#12 Stainless Steel Break load is 1200 lbs

#10 Solid Copper Break load is 285 lbs