

ConduWire Technical Specifications

Polymer Jacket Physical Properties

Property	Typical Value	Unit	Test Method
Hardness (Shore A)	94		ASTM D2240
Specific Gravity	1.26		ASTM D792-20
Tensile Strength	638	psi	ASTM D638 (20"/ min)
Elongation at Break	36	%	ASTM D638 (20"/ min)
Permeability	4.2×10^{-8}	$\text{g}/(\text{s} \cdot \text{m}^2 \cdot \text{Pa})$	ASTM E96 (Sheet)
Water Absorption	0.5	%	ASTM D570
Resistivity	< 20	$\Omega \cdot \text{cm}$	SAE Inc. Standard 114

Coated STR Copper Wire Physical Properties

Property	Typical Value	Unit	Test Method
Concentricity	> 80	%	ASTM D3032, Section 16
Minimum Bend Radius #6 AWG #4 AWG #2 AWG 2/0 AWG	0.5 1 1 1.5	inches	SAE Inc. Standard 115
Minimum Cold Bend Radius (6° C) #6 AWG #4 AWG #2 AWG 2/0 AWG	1 1.5 1.5 2	inches	SAE Inc. Standard 115
Minimum Polymer Wall Thickness	1.3	mm	

Additional specifications and application details available as required.
Values subject to change.

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