



ConduDisc Elite Technical Specifications

Physical Properties

Property	Typical Value	Unit	Test Method
Physical State	Black Solid		
Odor	None		
Water Permeability	1.72×10^{-7} [6.77×10^{-8}]	cm/sec [in/sec]	ASTM D5084 (2.6 psi) [0.018 MPa]
Flammability	No ignition		Exposed to a propane torch (~2000 °C) [~ 3632 °F] for 60 seconds
Electrical Corrosion Resistance Copper Steel Galvanized Steel	100 98.09 99.91	%	SAE Inc. Standard 100
Compatibility Copper Steel Galvanized Steel	Yes Yes Yes		SAE Inc. Standard 100
Environmental Impact	Neutral		Ontario Regulation 558/00 (Leachate Testing)
Freeze-thaw Withstand	30	Years	SAE Inc. Standard 102

Mechanical Properties

Property	Typical Value	Unit	Test Method
Elastic Compression 7,000 kg [15,432 lbs] 12,000 kg [26,455 lbs] 14,500 kg [31,967 lbs] 16,771 kg [36,974 lbs]	2.2 [0.09] (4.3) 2.6 [0.10] (5.1) 3.0 [0.12] (5.9) 3.1 [0.12] (6.1)	mm [in] (%) mm [in] (%) mm [in] (%) mm [in] (%)	SAE Inc. Standard 103
Maximum Load Applied	16,771 [36,974]	kg [lbs]	SAE Inc. Standard 103

Electrical Properties

Property	Typical Value	Unit	Test Method
Resistivity	30.39 [11.96]	$\Omega \cdot \text{cm}$ [$\Omega \cdot \text{in}$]	SAE Inc. Standard 105
Conductivity	0.03 [0.076]	S/cm [S/in]	SAE Inc. Standard 105

Fault Current Withstand

RMS Current (A)	RMS Voltage (kV)	Resistance Before Test (m Ω)	Resistance After Test (m Ω)	Approximate Temperature Rise ($^{\circ}\text{C}$ [$^{\circ}\text{F}$])	Test Duration (milliseconds)
1040	19.5	30.6	20.3	1 [1.8]	508
2520	124.0	55.5	20.2	2 [3.6]	508
3730	239.0	44.9	46.0	13 [23.4]	234
4990	176.0	34.6	7.28	1 [1.8]	508

Leachate (TCLP) Results

Leachate Data (TCLP Procedure) based on Ontario Regulation 558/00

Constituent	ConduDisc Elite TCLP Concentration (mg/L [ppm])	U.S. Environmental Protection Agency (US EPA) Maximum Contaminant Level (mg/L [ppm])
Arsenic	BDL	0.010 [0.010]
Barium	1.490 [1.490]	2.000 [2.000]
Boron	1.067 [1.067]	2.000 * [2.000]
Chromium	0.026 [0.026]	0.100 [0.100]
Mercury	BDL	0.002 [0.002]
Selenium	0.013 [0.013]	0.050 [0.050]
Silver	BDL	0.100 ** [0.100]
Uranium	BDL	0.030 [0.030]
Fluoride	0.190 [0.190]	2.000 ** [2.000]
Nitrate (as Nitrogen)	BDL	10.000 [10.000]
Nitrite (as Nitrogen)	BDL	1.000 [1.000]
Cyanide	BDL	0.200 [0.200]

BDL means the result is "Below the Detection Level" of the analytical procedure

* No MCL established; value shown is US EPA's Lifetime Drinking Water Health Advisory

** No MCL established; value shown is US EPA's Secondary Drinking Water Standard

Stranded Copper ConduWire 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 [1.27] 1 [2.54] 1 [2.54] 1.5 [3.81]	Inches [cm]	SAE Inc. Standard 115
Minimum Cold Bend Radius (6° C) #6 AWG #4 AWG #2 AWG 2/0 AWG	1 [2.54] 1.5 [3.81] 1.5 [3.81] 2 [5.08]	Inches [cm]	SAE Inc. Standard 115
Cold Bend Rating	- 25 [- 13]	°C [°F]	IEC 60811-504
Cold Impact Rating	- 25 [- 13]	°C [°F]	IEC 60811-506
Minimum Polymer Wall Thickness	1.8 [0.07]	mm [in]	

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

Published Date: November 2025