

Titanium Conductor Bar (Current Distributor Bar)



Titanium Conductor Bar is designed to distribute cathodic protection current to a MMO titanium-based anode system. The conductor bar is highly resistant to corrosion in various environments.

Type	Width	Thickness	Length per roll
Type A	6.4 mm	0.6 mm	155 m
Type B	12.7 mm	0.6 mm	155 m
Type C	10 mm	1.0 mm	100 m
Type D	12.7 mm	0.9 mm	76 m

Linear Resistance

Type A (6.4 mm x 0.6 mm): 0.0147 ohm/m

Type B (12.7 mm x 0.6 mm): 0.0074 ohm/m

Type C (10.0 mm x 1.0 mm): 0.0056 ohm/m

Type D (12.7 mm x 0.9 mm): 0.0049 ohm/m

Material Properties

Composition:	Titanium, Grade 1 per ASTM B265
Coefficient of thermal expansion:	$8.7 \times 10^{-5}/^{\circ}\text{K}$ (0.0000048/in/in/ $^{\circ}\text{K}$)
Thermal conductivity at 20°C:	15.6 W/m ² - $^{\circ}\text{K}$ (9.0 BTU/hr/ft ² / $^{\circ}\text{F}$ /ft)
Electrical resistivity:	0.000056 ohm-cm (0.000022 ohm-in)
Modulus of elasticity:	105 GPa (14,900,000 PSI) minimum
Tensile strength:	245 MPa (35,000 PSI) minimum
Yield strength:	175 MPa (25,000 PSI) minimum
Elongation:	24% minimum