Aluminum-Magnesium-Silicon Spooled Wire (Al99-Mg0.5-Si0.5)

Aluminum/magnesium/silicon alloy spooled wire (Al99/Mg0.5/Si0.5) balances conductivity, durability, and low weight for aerospace wiring, marine cabling, and automated assembly systems. **SKU:** 1000021483-group
Product Code: AL18-WR-000150

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	16
Modulus of elasticity(GPa)	69.5
Tensile strength(MPa)	90-300

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	3.2
Temperature coefficient(K?¹)	-

Thermal Properties

Element	Value
Melting point(C)	655
Specific heat(J K?¹ kg?¹)	960@23°C
Thermal conductivity(W m?¹ K?¹)	209@23°C
Coefficient of thermal expansion(x10?? K?¹)	23.4@20-100°C

Physical Properties

Element	Value
Density(gcm?³)	2.7