

# EN AW-6101

ASTM 6101 · 6xxx · Al-Mg-Si (heat-treatable)

## DESIGNATIONS

EN AW <b>EN AW-6101</b>	ASTM / US <b>6101</b>	DIAMETERS <b>9.5 mm</b>	$\Sigma$ , MPA <b>150-260</b>
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## APPLICATIONS

Busbars, all-aluminium alloy conductors (AAAC), self-supporting insulated wires (ABC), ground wires.

## ADVANTAGES

- High mechanical strength (up to 260 MPa in T6 temper)
- Heat-treatable alloy
- Ideal for overhead transmission lines
- Resistant to deformation under load
- ASTM 6101 standard

## TEMPER STATES

TEMPER	DIAMETER, MM	TENSILE STRENGTH, MPA	ELONGATION, MIN, %	RESISTIVITY, MAX, $\Omega \cdot \text{MM}^2/\text{M}$	CONDUCTIVITY, MIN, % IACS
<b>T1</b>	9.5	150-180	15	0.03500	49.2
<b>T4</b>	9.5	180-205	8	0.03500	49.2
<b>T6</b>	9.5	220-260	6	0.03600	47.5

## CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
<b>Si</b>	0.300	0.700
<b>Fe</b>	—	0.500
<b>Cu</b>	—	0.100
<b>Mn</b>	—	0.030
<b>Mg</b>	0.350	0.800
<b>Cr</b>	—	0.030
<b>Zn</b>	—	0.100
<b>B</b>	—	0.060

DESIGNATIONS	MIN %	MAX %
<b>Al (Al, min)</b>		<b>balance</b>
Other impurities — each		≤ 0.03%
Other impurities — total		≤ 0.10%

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