

# EN AW-6201

ASTM 6201 · 6xxx · Al-Mg-Si (heat-treatable)

## DESIGNATIONS

EN AW <b>EN AW-6201</b>	ASTM / US <b>6201</b>	DIAMETERS <b>9.5 mm</b>	$\Sigma$ , MPA <b>160-330</b>
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## APPLICATIONS

All-aluminium alloy conductors (AAAC) for high-mechanical-strength overhead transmission lines.

## ADVANTAGES

- Maximum strength in the 6xxx series (up to 330 MPa)
- High fatigue endurance
- T81 temper — optimal strength/conductivity balance
- Compliant with IEC and ASTM

## 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	160-205	17	0.03600	47.8
<b>T4</b>	9.5	205-330	8	0.03600	47.8
<b>T81</b>	9.5	315-330	3	0.03700	46.5

## CHEMICAL COMPOSITION, %

DESIGNATIONS	MIN %	MAX %
<b>Si</b>	0.500	0.900
<b>Fe</b>	—	0.500
<b>Cu</b>	—	0.100
<b>Mn</b>	—	0.030
<b>Mg</b>	0.600	0.900
<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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