

Aluminium alloy wire

Specification:
BS 1475 and customer specification.

Application:
Mechanical, nail & rivet, Armouring, irrigation and fencing wire.

Construction:
Circular hard drawn aluminium alloy wire.

Material properties

Aluminium Alloy Grade	6101(4040) & 6201-T81		
Density / Specific gravity	Nom.	g/cm ³	2.703
Tensile strength (hard drawn)	Nom.	Mpa	110-130
Conductivity	Nom.	Min.	62.3
Volume resistivity @ 20°C	Nom.	Ω/mm".m	0.032227
Coefficient of linear expansion	Nom.	per °C	23x10 ⁻⁶
Specific heat	Nom.	KJ/kg/K	0.904
Melt point	Nom.	°C	658

Size range:	Packaging:
Smallest sizes 1.50mm to Largest sizes 8.50mm.	Coils (minimum 5kg).

Wire diameter (D)	Area	Conductor weight	Length per 5kg coil	Bending radius	Resistance dc @ 20 °C	UTS Hard Drawn	*Fault Rating kA-1sec	
					Calculated	SANS 182-1	@90-250°C	@90-400°C
mm	mm ²	kg/km	m	mm	Ω/km Nom.	kN	kA	kA
3.10	7.55	20.4	245	24.80	4.270	2	1.049	1.356



Revision: R01 10/07/2020

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