

TECHNICAL DATA

BARE ROUND COPPER & ALUMINIUM

PHYSICAL PROPERTIES

Property	Aluminium	Copper
Area weight @ 20°C	2.703 g/cm ³	8.89 g/cm ³
Melting Point	650°C	1083°C
Electric resistivity	0.027808 mm ² /m	0.017241 mm ² /m
Thermal conductivity	187.2 Kcal/mh°C	340 Kcal/mh°C

CALCULATIONS WHEN REPLACING ALUMINIUM WITH COPPER

Property	Temperature/Intensities	Voltage Drop/Conductance
Diameter	x 1.19	x 1.27
Cross section	x 1.42	x 1.63
Weight (Volume)	x 0.40	x 0.40