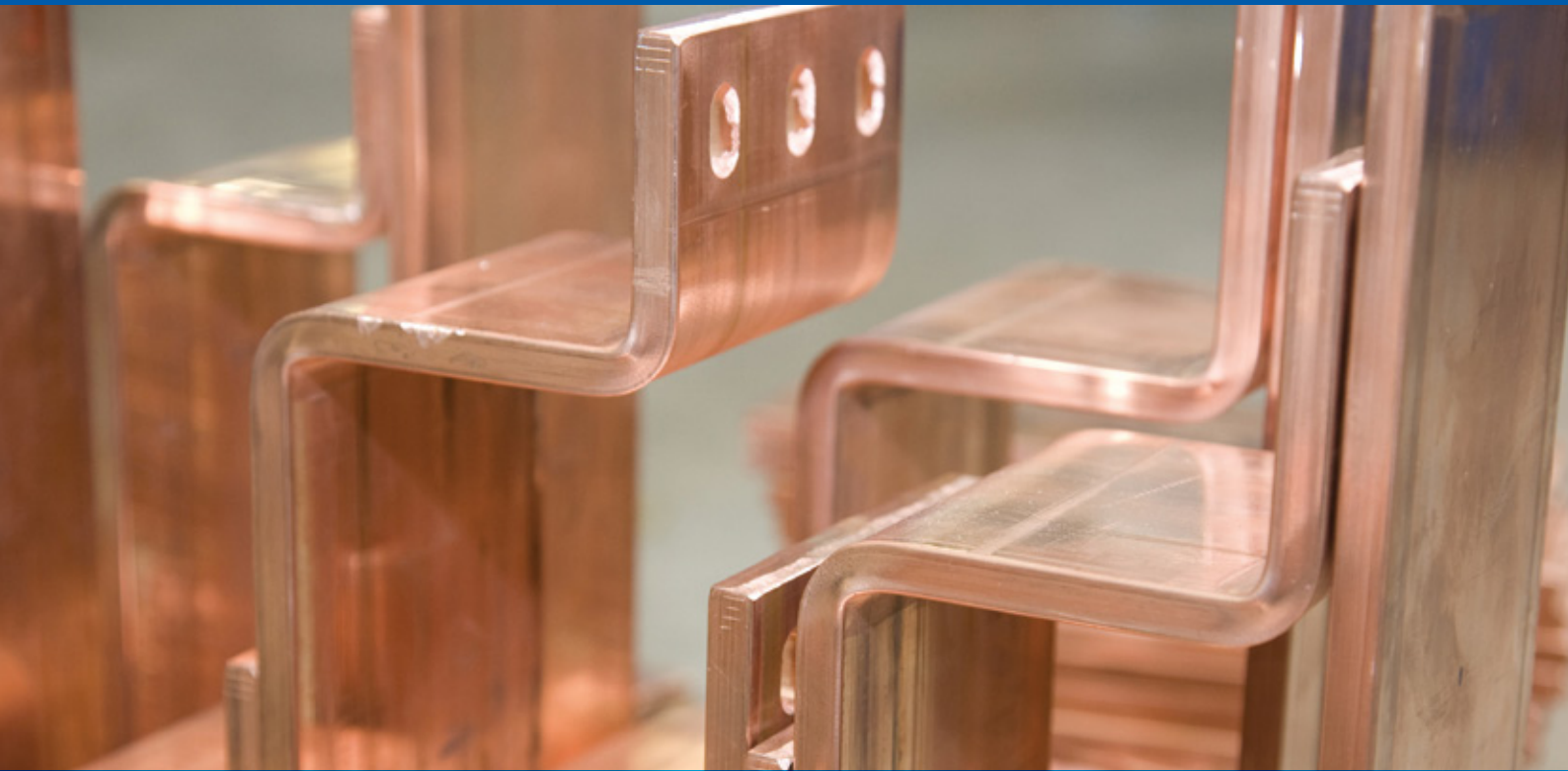




HIGH CONDUCTIVITY COPPER BUSBARS & TAPES

Copper Busbars are used within many electrical installations of distribution panels and many industrial processes. They may be used in a variety of configurations ranging from vertical risers and horizontal ways. To achieve a long and reliable service life, the conductor material needs the properties of Low electrical resistance, High mechanical strength in tension, Compression and shear, Ease of fabrication and High resistance to corrosion ect.

The mechanical properties and metallic compositions of copper used for busbars (electrical purposes) in accordance with BS EN 13601:2013 / JIS H 3100:2006. ACL Oxygen-free High Conductivity Copper which is specially produced for this purpose. This type of copper, known as “oxygen-free high conductivity copper”, is normally produced by melting and casting under a protective atmosphere to obtain the high conductivity required. It is necessary to select the best raw materials, in order to obtain a high purity product containing 99.95% copper.



TECHNICAL SPECIFICATIONS

(For 3 x 25 mm COPPER BUS BAR)

NAME OF MANUFACTURER & COUNTRY	ACL CABLES PLC, SRI LANKA
ITEM TYPE	COPPER BUS BAR
APPLICATION	CONTACTS, ELECTRONIC REPAIR KITS, MODULE/SOLAR CELLS, EARTHING, POWER PANEL INSTALLATION
AREA	75 mm ²
TYPE OF CONDUCTORS	HIGH CONDUCTIVITY FULLY ANNEALED COPPER*
	1/4 HARD COPPER
	1/2 HARD COPPER
COPPER CONTENT	99.90% Min.
MAXIMUM ELECTRICAL RESISTIVITY	0.01759 $\mu\Omega\cdot m$
CONDUCTIVITY (IACS) @ 20°C	98% Min.
CONDUCTOR WIDTH (Nominal)	25 mm
WIDTH TOLERANCE	± 0.30 mm
CONDUCTOR THICKNESS (Nominal)	3 mm
THICKNESS TOLERANCE	± 0.10 mm
ULTIMATE TENSILE STRESS (N/mm ²)	FULLY ANNEALED COPPER: 195 Min.
	1/4 HARD COPPER: 215 Min.
	1/2 HARD COPPER: 245 Min.
ELONGATION Min. %	FULLY ANNEALED COPPER: 35% Min.
	1/4 HARD COPPER: 25% Min.
	1/2 HARD COPPER: 15% Min.
WEIGHT OF THE BUS BAR (Approx.)	0.67 kg/m
AMPERCITY (30°C Temperature Rise)	200 A
PACKAGING METHOD	3650 mm Length/Customer Requirement
*Preferred Grade in Power Panel Installations Reference Standards JIS H 3100 :2012	

ACL Cables PLC

60, Rodney Street,
Colombo 08, Sri Lanka

T : +94 11 760 8300, +94 11 269 7652
F : +94 112 699 503

E : info@acl.lk
W : www.acl.lk