Copper Strip for Cable Armouring

Copper strip for cable armouring is widely used in cable manufacturing for armouring, shielding, screening, grounding and protective wrapping applications. It provides excellent electrical conductivity, good corrosion resistance, stable mechanical properties and reliable processing performance during cable production.

Compared with aluminum strip or steel tape, copper strip offers much higher electrical conductivity and better shielding performance. It is suitable for power cables, control cables, instrumentation cables, communication cables, marine cables, mining cables and special industrial cables.

We supply copper strip and copper tape in different grades, tempers, thicknesses and widths according to customer cable design and production requirements.

In cable armouring and shielding applications, copper strip is usually helically wrapped or longitudinally applied around the cable core. It can provide electrical shielding, grounding continuity, electromagnetic interference protection and additional mechanical protection.

The quality of copper strip directly affects cable performance, production stability and service life. Therefore, the strip should have clean surface, accurate thickness, uniform width, stable mechanical properties and smooth edge quality.

Our copper strip for cable armouring is produced with strict control of conductivity, surface quality, dimensional tolerance and edge condition to ensure stable performance in continuous cable production lines.

Specifications

Product Name	Copper Strip for Cable Armouring
Material Grade	T2, C11000, C10200, C12200, Brass H68,H65
Optional Surface	Bare copper, Brass
Temper	O, 1/4 Hard, 1/2 Hard, Hard
Thickness	0.05–2.00 mm or customized

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Width	5–600 mm or customized
Electrical Conductivity	≥97% IACS, ≥99% IACS or customized
Surface	Bright, smooth, clean, oil-free
Edge	Slit edge, trimmed edge, burr-free edge
Coil ID	150 mm, 300 mm, 400 mm, 500 mm or customized
Coil Weight	According to customer requirements
Standard	ASTM, EN, JIS, GB or customer specification
Application	Cable armouring, cable shielding, cable screening, cable wrapping

Common Specification Range

Application	Common Thickness	Common Width
Cable shielding / screen	0.05–0.30 mm	10–300 mm
Cable wrapping	0.10–0.50 mm	10–500 mm
Cable armouring	0.20–1.00 mm	10–600 mm
Grounding and protective layer	0.10–1.50 mm	Customized

Note: Thickness, width, temper, conductivity, coil ID, coil weight and edge condition can be customized according to cable structure and production process requirements.

Available Copper Grades

Copper Grade	Equivalent Standard	Main Features	Typical Application
T2 Copper	Chinese Standard	High conductivity, good ductility, widely used	Cable shielding, armouring, wrapping
C11000 / ETP Copper	ASTM	High electrical conductivity, good formability	Power cable shielding and grounding

Copper Grade	Equivalent Standard	Main Features	Typical Application
C10200 / OF Copper	ASTM	Oxygen-free copper, excellent conductivity and purity	High-performance cables, special electrical applications
C12200 / DHP Copper	ASTM	Good weldability and corrosion resistance	Industrial cable protection and special applications

Recommended Copper Materials

T2 Copper Strip

T2 copper strip is widely used for cable armouring, shielding and electrical applications. It provides high conductivity, good ductility, smooth surface and stable processing performance.

C11000 Copper Strip

C11000 electrolytic tough pitch copper strip offers excellent electrical conductivity and good formability. It is suitable for power cable shielding, cable screen and grounding applications.

C10200 Oxygen-Free Copper Strip

C10200 oxygen-free copper strip has high purity, excellent electrical conductivity and low oxygen content. It is suitable for special cables requiring high electrical performance and stable signal transmission.

Mechanical and Electrical Properties

Material	Temper	Tensile Strength Rm	Elongation A	Conductivity
T2 Copper	O	200–260 MPa	30–45%	≥97% IACS
T2 Copper	1/4 Hard	240–300 MPa	15–30%	≥97% IACS
T2 Copper	1/2 Hard	280–360 MPa	8–20%	≥97% IACS
T2 Copper	Hard	350–450 MPa	3–10%	≥97% IACS
C11000 Copper	O	200–260 MPa	30–45%	≥100% IACS
C11000 Copper	1/2 Hard	280–360 MPa	8–20%	≥100% IACS
C10200 Copper	O	200–250 MPa	35–50%	≥100% IACS

Material	Temper	Tensile Strength Rm	Elongation A	Conductivity
C12200 Copper	O	220–280 MPa	30–45%	≥85% IACS

Note: The above values are typical reference ranges only. Final mechanical and electrical properties depend on copper grade, temper, thickness, production process and customer technical requirements. Material test certificates can be provided upon request.

Electrical Performance

Copper strip is widely used in cable applications because of its excellent electrical conductivity. In cable shielding and armouring structures, copper strip can help improve grounding continuity, reduce electromagnetic interference and provide stable electrical protection.

Electrical Advantages

High electrical conductivity
Good grounding performance
Excellent shielding effect
Low electrical resistance
Stable current carrying performance
Suitable for power cables and signal cables
Reliable performance in cable screen structures

Key Features

High electrical conductivity
Good electromagnetic shielding performance
Excellent ductility and formability
Good corrosion resistance
Smooth and bright surface
Accurate thickness and width tolerance
Burr-free edge for continuous cable production
Stable tensile strength and elongation
Suitable for wrapping, screening and armouring
Bare copper and tinned copper available
Custom specifications available

Applications

Copper strip helps protect cable conductors from electromagnetic interference and improves electrical safety by providing a continuous conductive path. In some special cable structures, copper strip can also provide additional mechanical protection and corrosion resistance.

Copper strip for cable armouring is widely used in:

Power cables
Control cables
Instrumentation cables
Communication cables
Signal cables
Marine cables
Mining cables
Railway cables
Industrial cables
Special cables
Cable shielding layers
Cable screen layers
Cable grounding layers
Cable wrapping and protective layers

Packaging and Delivery

Copper strip for cable armouring is supplied in coils. Each coil is properly packed to prevent oxidation, moisture, surface scratches, edge damage and deformation during transportation.
Packaging Options
Plastic film wrapping
Moisture-proof paper
Anti-oxidation protection
Wooden pallet packaging
Wooden case packaging
Eye-to-sky packaging
Eye-to-wall packaging
Edge protection
Export seaworthy packaging