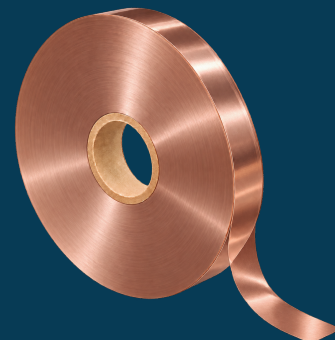


CU / PET - CABLE SCREENING LAMINATE

Copper / PET Laminate Tape

20/23 µm stock grade | Other constructions to order

Copper foil laminated with polyester film for electromagnetic screening in signal, control and communication cables.



Copper foil
CONDUCTIVE SCREEN

Polyester film
REINFORCING LAYER

20 / 23 µm
MANCHESTER STOCK

Pads and spools
SUPPLY FORMATS

COPPER FOIL FOR CABLE SCREENING

Conductive screening with polyester reinforcement.

Copper foil helps limit external electromagnetic interference and signal coupling between screened circuits. PET reinforces the thin foil and provides an insulating face. The laminate can screen individual pairs, groups or the complete cable core, with suitable overlap and electrical termination.

Typical applications in cable production

Instrumentation and process control

Pair or overall screens for measurement circuits, sensors, industrial control and low-level signal cables.

Data and communication

Screening in LAN, fieldbus and other data cables where the design calls for a copper foil laminate.

Coaxial, RF and CCTV

Foil screens in coaxial and video constructions, often used alongside a braid to meet the cable design.

Screened industrial signal circuits

Screening for sensitive signal circuits in electrically noisy environments; separate screens can limit coupling between circuits.

Material advantages

High conductivity

Copper offers higher electrical conductivity than aluminium.

High screen coverage

Suitable overlap can give full geometric coverage of the core.

Polyester reinforcement

PET adds strength to support foil handling and application.

Insulating film face

PET provides electrical separation on the film side.

Thin laminate construction

Limits screen build-up while combining foil and film.

Flexible screen layouts

Use around pairs or the core, or alongside a braid screen.

MANCHESTER STOCK / SLITTING AND SPOOLING

20/23 µm master-roll stock is held in Manchester for fast slitting and spooling, supporting smaller minimum order quantities. Other constructions can be sourced, with additional master-roll stock introduced to suit customer requirements.

Screening performance depends on frequency, overlap, electrical contact, termination and the complete cable construction.

Technical data

Construction code = copper / polyester nominal layer thickness, in μm

PROPERTY	UNIT	15/23	18/23	20/23
Copper thickness	μm	15 $\pm$ 10%	18 $\pm$ 10%	20 $\pm$ 10%
PET thickness	μm	23 $\pm$ 5%	23 $\pm$ 5%	23 $\pm$ 5%
Total thickness	μm	41 $\pm$ 4	44 $\pm$ 4	46 $\pm$ 4
Mass per unit area	g/m^2	168.7 $\pm$ 17	195.4 $\pm$ 20	213.3 $\pm$ 21
Yield	m^2/kg	6.3 $\pm$ 8%	5.3 $\pm$ 8%	4.7 $\pm$ 8%
Minimum tensile strength	N/mm^2	$\geq$ 90	$\geq$ 90	$\geq$ 130
Minimum elongation	%	$\geq$ 10	$\geq$ 10	$\geq$ 10

Tensile strength and elongation are in the machine direction (MD). Total thickness includes the laminating bond. 1 N/mm^2 = 1 MPa.

CONSTRUCTION / STOCK AVAILABILITY

Copper foil / laminating bond / polyester film. 20/23 is the stocked construction; 15/23, 18/23 and other foil / film combinations are available to requirement. Confirm the construction, winding format and slit width at quotation.

Supply formats

FORMAT / DIMENSION	PAD WOUND	SPOOL / TRAVERSE
Slit width	8-900 mm	5-60 mm
Core internal diameter	76 or 152 mm	76 mm
Maximum outer diameter	550 mm	300 mm
Core width	Not applicable	100-350 mm

Custom slit widths, sizes and winding arrangements are available on request.

Application and processing guidance

Control tape tension and overlap to avoid gaps, wrinkles and foil tearing. Maintain conductive contact between the copper face and the specified drain wire, braid or termination; the PET face is insulating. Select foil thickness and the screening arrangement for the cable design, then verify screen continuity and EMC performance on the finished cable.

Values describe the laminate. They do not guarantee finished-cable screening performance.