

# Flexible laminates for cables.

THE WISE CHOICE





# We are proud of the products in this catalogue.

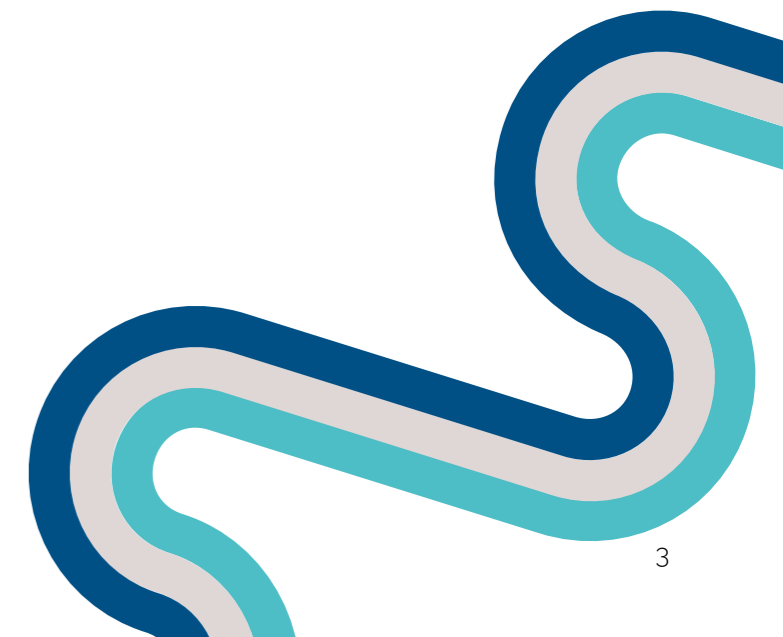
Skultuna Induflex is celebrating 90 years of developing and manufacturing robust and reliable laminates for industrial wire and cable applications. Today, we provide innovative solutions for operating in some of the most demanding environments.

#### **What about the next 90 years?**

We focus on electrification - in power generation and distribution, offshore and on land, and enabling efficient energy consumption and energy storage. We know that tomorrow's cable requirements will be no less demanding. Increasingly tough conditions for shielded cables drive product development and push us to stay on the leading edge. At the same time, our moisture barrier portfolio is being complemented to meet the challenging requirements of high voltage cables.

#### **Innovation is the future**

Sustainable creativity isn't one way forward. It's the only way. That's why we're committed to offering an eco-friendly alternative for 80% of our portfolio by 2030 at the latest.





## Aluminum based EMI Shielding

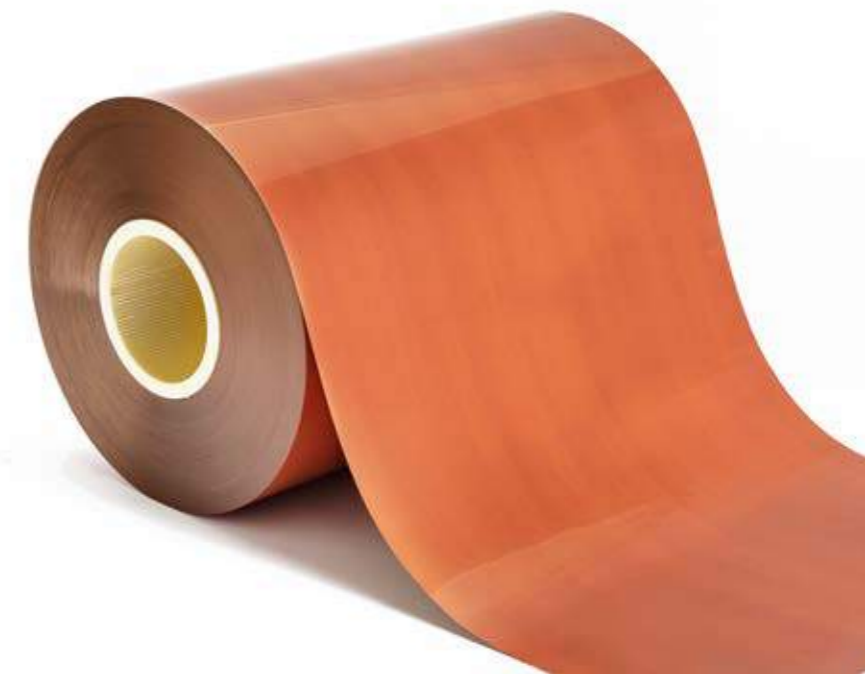
CONSTRUCTION	COLOUR	PRODUCT CODE
Al 9µm + PET 12µm	Blue	LG 1001
Al 9µm + PET 15µm	Blue	LG 1041
Al 9µm + PET 19µm	Blue	LG 599
Al 9µm + PEN 16µm ■	Blue	LG 9600
Al 9µm + PET 23µm	Blue	LG 1069
Al 9µm + Polyimide 25µm ■	Natural	LG 1250
Al 12µm + PET 12µm	Gold	LG 1002
Al 12µm + PET 12µm	Blue	LG 688
Al 12µm + PET 19µm	Green	LG 508
Al 12µm + PET 23µm	Blue	LG 546
Al 25µm + PET 12µm	Blue	LG 539
Al 25µm + PET 23µm	Blue	LG 598
Al 37µm + PET 12µm	Blue	LG 1063
Al 40µm + PET 12µm	Blue	LG 656
Al 40µm + PET 23µm	Blue	LG 639
Al 50µm + PET 12µm	Blue	LG 528
Al 50µm + PET 23µm	Blue	LG 649
Al 9µm + PET 12µm + Al 9µm		LG 518
Al 9µm + PET 23µm + Al 9µm		LG 926
Al 9µm + Polyimide 25µm + Al 9µm ■		LG 9551
Al 9µm + OPP 30µm + Al 9µm		LG 1192
Al 25µm + PET 12µm + Al 25µm		LG 532

Lubricated and hydrolysis resistant versions are available upon request.

■ Temperature resistant

## Copper based EMI Shielding

CONSTRUCTION	COLOUR	ELONGATION AT METAL BREAK	PRODUCT CODE
Cu 18µm / PET 12µm	Clear	> 8 %	LG 1012
Cu 18µm / PET 23µm	Clear	> 8 %	LG 1003
Cu 18µm / PET 12µm	Clear	> 15 %	LG 1013
Cu 18µm / PET 23µm	Clear	> 15 %	LG 1132
Cu 20µm / PET 12µm	Clear	> 15 %	LG 1051
Cu 20µm / PET 23µm	Clear	> 15 %	LG 622
Cu 20µm / PET 50µm	Clear	> 15 %	LG 1052
Cu 20µm / PET 75µm	Clear	> 15 %	LG 9587
Cu 50µm / PET 23µm	Blue	> 10 %	LG 609
Cu 12µm / PET 23µm / Cu 12µm	Clear	> 10 %	LG 9528
Cu 20µm / PET 23µm / Cu 20µm	Clear	> 10 %	LG 634



## Heat sealable laminates, Copper

CONSTRUCTION	SEALABLE TO	COLOUR	PRODUCT CODE
Cu 20µm + PET 23µm + Copol 30µm	Metal & PE	Blue	LG 1064
Cu 50µm + Copol 30µm	Metal & PE	Blue	LG 635
Cu 50µm + T6 Coating 6µm	PVC	Grey	LG 4032
PE 50µm / Cu 100µm / PE 50µm	Metal & PE	Clear	LG 5105
Cu 100µm + Copol 50µm	Metal & PE	Clear	LG 5100
Cu 150µm + Copol 50µm	Metal & PE	Clear	LG 5150
Cu 200µm + Copol 50µm	Metal & PE	Clear	LG 5200

We offer several types of Copolymers and a 75 µm thick layer of Copol on request.  
Coated Copper rolls can be supplied on cores of 152 or 200 mm.  
Widths: 20 to 350 mm  
Outer diameter: maximum 1200 mm.  
Roll weight: maximum 1500KG.  
We provide a coil calculator on request.

## Heat sealable laminates, Aluminium

CONSTRUCTION	SEALABLE TO	COLOUR	PRODUCT CODE
Al 9µm + PET 12µm + PE 30µm	PE	Clear	LG 690
Al 9µm + PET 12µm + T4 27µm	PVC, Metal & PE	Blue	LG 9576
Al 9µm + Sealable PET 15µm	PVC	Blue	LG 1015
Al 9µm + PET 12µm + PVC 30µm	PVC	Blue	LG 1185
Al 9µm + PEN 16µm + Copol 50µm	Metal & PE	Blue	LG 9595
Al 9µm + PVC 30µm	PVC	Gold	LG 671
Al 12µm + PVC 30µm	PVC	Gold	LG 682
Al 25µm + Sealable PET 15µm	PVC	Green	LG 1044
Al 25µm + PVC 30µm	PVC	Green	LG 579
Al 50µm + PET 12µm + PVC 30µm	PVC	Clear	LG 9605
Al 50µm + T6 coating 6µm	PVC	Red	LG 4033
Al 100µm + T6 coating 6µm	PVC	Grey	LG 9611
Al 50µm + Copol 30µm	Metal & PE	Blue	LG 604
Al 100µm + Copol 30µm	Metal & PE	Clear	LG 562
Al 9µm + OPP 30µm + Al 9µm + Copol 30µm	Metal & PE	Blue	LG 1189
Al 25µm + PET 12µm + Al 25µm + Copol 30µm	Metal & PE	Blue	LG 525

FREE SEAL TESTS PERFORMED IN HOUSE

- Customers compounds sealed with our adhesives
- Controlled temperature – duration – pressure
- Seal test results provided at various temperatures

## Heat sealable laminates & films

CONSTRUCTION	SEALABLE TO	COLOUR	PRODUCT CODE
PET 12µm + LDPE 30µm	PE	Blue	LG 1230
LDPE 30µm + PET 12µm + LDPE 30µm	PE	Blue	LG 614
PET 23µm + Copol 50µm	Metal & PE	Clear	LG 586
PET 75µm + Copol 50µm	Metal & PE	Blue	LG 574
	Metal & PE	Yellow	LG 575
	Metal & PE	Red	LG 576
	Metal & PE	Green	LG 577
PET 12µm + T4 12µm	PE-Metal-paper	Clear	LG 4030
PET 12µm + T4 27µm	PE-Metal-paper	Clear	LG 4035
PET 23µm + T4 12µm	PE-Metal-paper	Clear	LG 4031
PET 23µm + T4 27µm	PE-Metal-paper	Clear	LG 9593
OPP 15µm + T4 12µm	PE-Metal-paper	Clear	LG 4034
PET 12µm + PVC 30µm	PVC	Clear	LG 557
PET 18µm + 2µm F7 coating	PVC-paper-PET	Clear	LG 1851
Copolymer 30 : 50 & 75 µm	Metal & PE		
LDPE 30 µm	PE		
PET Sealable	PET		
PVC Sealable	PVC		
PET + T4 coating	PE-Metal-paper		
Metal + T6 coating	PVC-Metal		



## Foils

Al 50µm
Al 100µm
Cu 10µm rolled annealed
Cu 12µm rolled annealed
Cu 15µm rolled annealed
Cu 18µm rolled annealed
Cu 20µm rolled annealed

Cu 35µm rolled annealed
Cu 35µm ETP 58 rolled annealed
Cu 50µm ETP 58 rolled annealed
Cu 100µm ETP 58 rolled annealed
Cu 150µm ETP 58 rolled annealed
Cu 200µm ETP 58 rolled annealed



## Slitting and spooling

### TRAVERSE WOUND SPOOLS

Widths	From 5,3mm up to 35mm
Inner Diameter (Cardboard Core)	76mm or 152mm
Outer Diameter	Maximum 380mm
Winding Width	From 80mm up to 280mm
Core Width	Winding width + 20mm

### PADS OR REELS

Widths	From 5,3mm and upwards
Inner Diameter(Plastic Core)	76mm or 152mm
Outer Diameter	Maximum 700mm



	Adhesive code	Liner Y/N	Activation Temperature	Minimum thickness (µm)	Base Film option 1	Peel strength to itself	Peel strength on ALU	Peel strength on RA Cu (maate side of tr. copper)	Peel strength on ED Cu	Peel strength on PET	Peel strength on PVC	Peel strength on PE
F1	N	105	30	All options	+++	+++	++	+++	-	-	+++	
F2	N			All options		+	+		-	+	++	
F3	N			All options	+++						+++	
F4	N	130	15	All options	+++							
F5	N		30	All options	+++					+++		
F6	N	110	15	All options	+++	+	-	-	-	++	-	
F7	N	110	12	All options	+++	+	-	-	-	+++	-	
F8	N		40	All options		+	-		-	++	+++	
T1	Y	130	2	Mel 339, PVF	+++		+++	+++				
T2	Y	130	2	PET			+++					
T3	N	130	2	Alu		+++						
T4	N	105	10	PET,OPP	+++	+++	++	+++	+++	+++	+++	+++
T5	Y	105	2	PET,Alu	+++	+++	+++	+++	+++	++	+++	+++
T6	N	120	2	Alu	+++	++	+	+	-	+++	-	
T7	Y	150	2	PI,Mel 238			+++					
T8	Y	150	2	PI,Mel 238			+++					
T9	Y	150	2	PI,Mel 238			+++					
T10	Y	125	2	Mel 339, PVF								
T11	N	105	10	PET,OPP	+++	+++	+++	+++	+++	+++	+++	+++
T12	N	80	1,5			+++	++		-	-	+	
T13	N	120	6			+	+		-	+	-	
T14	Y	180	8									

## Heatseal Matrix

All peel strength measurements performed in T-peel	Symbol	Peel result
Sealing conditions 150°C, 5s, 20psi (unless mentioned in comment)	-	0
	+	<200 N/m
T-peel (=90° peelttest Skultuna), 15mm wide, 50mm/min	++	>200 N/m
	+++	>400 N/m

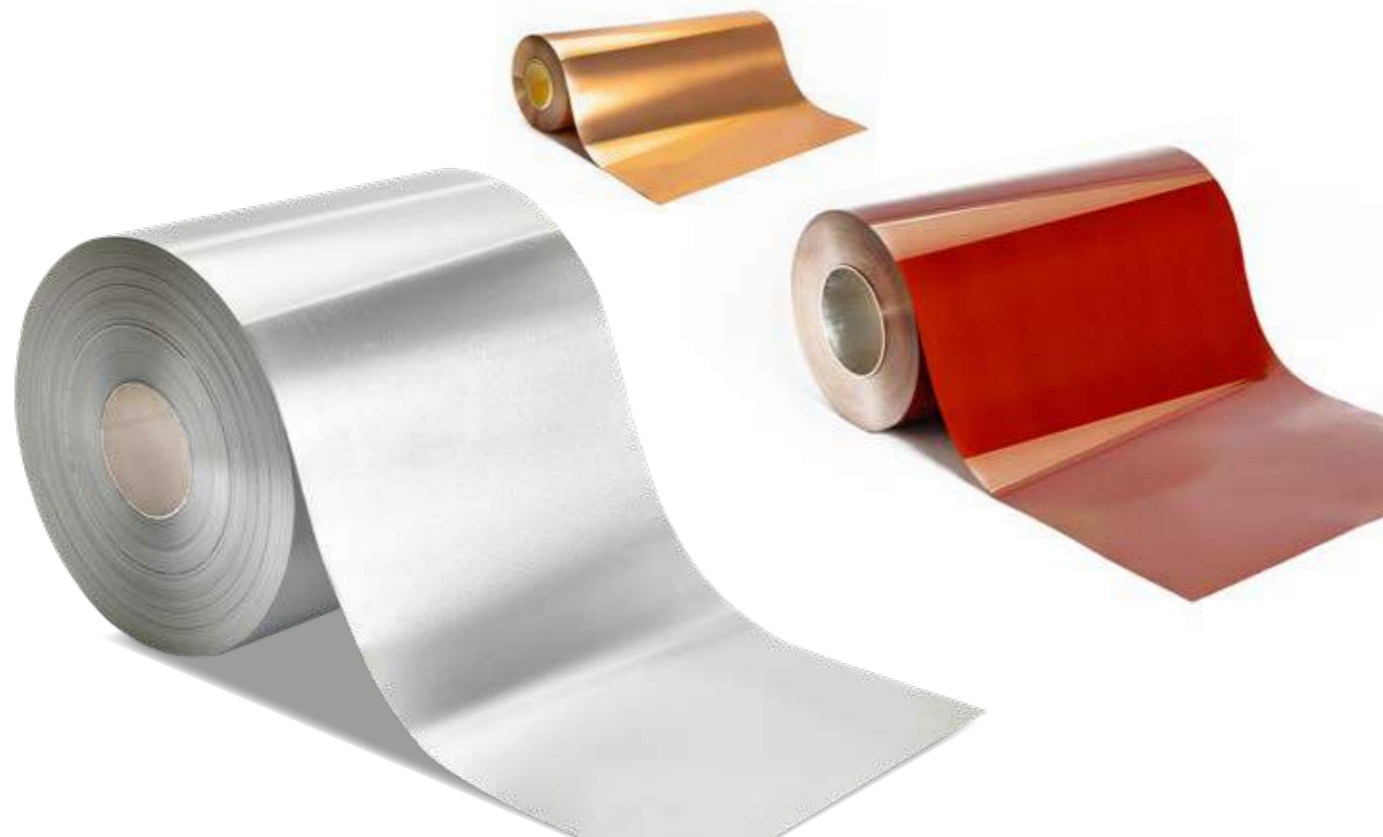
## Application overview

### SHIELDING

Application		Typical construction
Data transmission	LAN cable	25µm-50µm Al / 12µm-23µm PET
Telecom	Coaxial cables	9µm-25µm Al / 12µm-23µm PET / 9µm-25µm Al
	CATV cable	Copper and Aluminium based heat sealable tapes
	High conductivity shielding	Copper and Aluminium based heat sealable tapes
		Encapsulated cross talk barriers
Electronic	Instrumentation cable	9µm - 50µm Al / 9µm - 23µm PET
	Signal cable	9µm - 50µm Al / 9µm - 23µm PET
	Security cable	9µm - 50µm Al / 9µm - 23µm PET
Automotive	Heat sealables	Laminates and films

### BARRIER TAPES

Application		Typical construction
Fire resistant	Aluminium based	23µm-25µm Al / flame retardant halogen free coating
	PET based	23µm PET / flame retardant halogen free coating
	Copper based	
Heating cable	Aluminium barrier	9µm - 50µm Al / 12µm - 23µm PET
Energy	Mechanical barrier	10µm - 50µm CU / 12µm - 23µm PET
	Moisture barrier	12µm - 75µm PET / heat sealable film up to 50µm
	Copper moisture barrier	50µm - 200µm Cu / 30µm - 50µm Copolymer
	Aluminium or Copper	Plain foils



**The world is in the middle of an enormous shift.  
We are all part of that shift.**

Our mission is to support you in the transition to a sustainable future.  
We offer almost 100 years of accumulated knowledge, the widest product  
range (200+), and world-class production and customisation capabilities.

We look forward to meeting your challenge.

The tougher, the better.