



Railway Connections



A young dynamic company

Founded in 1981, MECATRACTION quickly grew both in the domestic market and export markets. We are based in Pompadour, France, in premises of more than 8100 m². MECATRACTION designs, develops and produces a complete range of components for industrial electrical connections.

Our subsidiary CEGERS TOOLS adds an extensive range of tools and accessories.

MECATRACTION is a subsidiary of the SICAME group

The SICAME Group specializes in accessories for the transport and the transmission of electrical power.



Your best partner in the high-tech sector

MECATRACTION has forged a position for itself in many sectors of industry that demand know-how, precision and efficiency through the quality of our products and our capacity for innovation.

These sectors include the rail, automotive, aeronautic, space, nuclear, renewable energies, shipping and defence industries.

High means of production

The manufacturing of components for electrical connections requires a production apparatus both modern and extremely flexible.



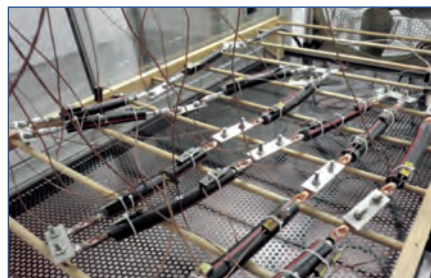
Research & Development

Our Research and Development department is composed of multi-disciplinary teams who combine creativity and reactivity.

Our knowledge of the requirements of various fields of activity such as railway, aeronautics, automotive or renewable energies enables us to offer original and strong solutions based on our experience.

Our research teams can rely on the capacity of our laboratory to investigate new technical solutions allowing to anticipate the needs of our customers.

Thus, our connections meet the permanent evolutions of the connectors in the most severe applications.



Quality and Environment





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**Signalling and stationary equipment
products 39**



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Automotive electrical connections



Aeronautic electrical connectons



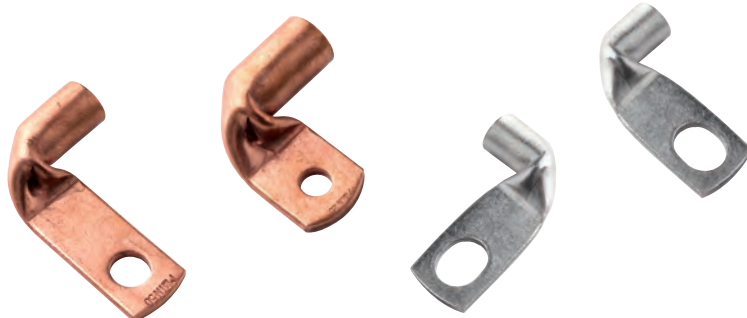
Expanded copper tubular lugs for crimping on core and insulation



Customized electrical connections



Tubular lugs bent right or left



The 5 key elements:

- ✓ An electrical connection must be electrically and mechanically sound. A complete system (terminal block, electric motor, automation, lighting...) depends upon the quality of this connection.
- ✓ In order to ensure the integrity of the final assembly (5), the product, the preparation, and the crimping operations should be implemented according to the key rules and by taking into account the first 4 essential key elements:

1

A quality crimp termination suited to the application



2

An electric cable correctly stripped and matched to the application



3

A quality crimping tool matched to both termination and conductor



4

An operator with experience in crimping techniques



5



General features of a crimped electrical connection:

A crimped electrical connection provides the link between a cable and the electrical equipment.

The main features of these connections are:

- ✓ Excellent conductivity
- ✓ Good tensile strength
- ✓ Good corrosive resistance
- ✓ Good resistance to vibration
- ✓ No voltage drop or rise in temperature

Qualification of a crimped termination :

- ✓ Mechanical tests



Tensile strength



Vibration resistance

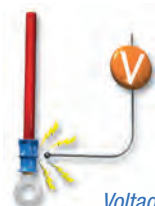


*Insertion extraction
For disconnects and tabs*

- ✓ Electrical tests



Voltage drop



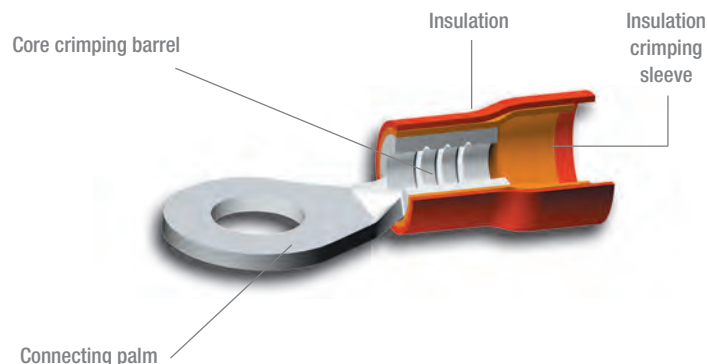
*Voltage strength
For preinsulated terminals*



Increase in temperature

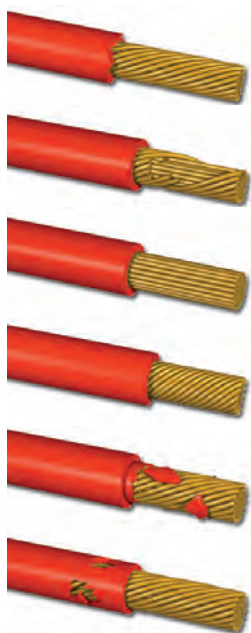
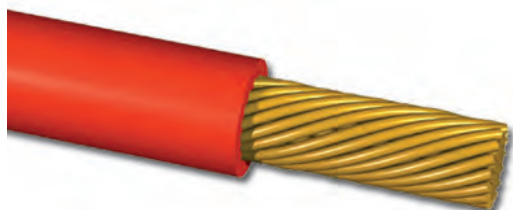
Crimping of preinsulated terminals

Types of preinsulated terminals “single crimp” and “double crimp”.
“Double crimp” type is particularly suited to electrical connections suffering stress or vibrating stress.



Cables

Cable correctly stripped:



- ✗ Insulation poorly stripped
- ✗ Cable strands damaged or cut
- ✗ Cable strands not twisted
- ✗ Cable strands over twisted
- ✗ Insulation particles on cable core
- ✗ Cable insulation damaged

- 1 Conductor strands protruding approximately 1 mm
- 2 Colour code marking
- 3 Flange from 1 to 1.5 mm

Crimping

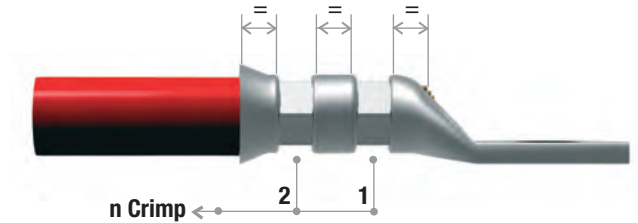
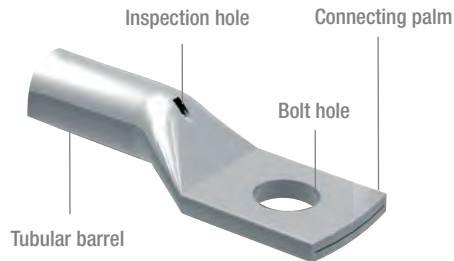
Terminal correctly crimped:



- Conductor insufficiently stripped ✗
- Crimped off centre ✗
- Crimped off centre ✗
- Tool presented incorrectly ✗
- Cable over stripped, difficult to assemble on the tab ✗

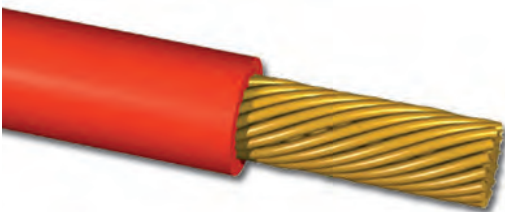


Crimping of copper tubular lugs



Cables

Cable correctly stripped:



✗ Insulation poorly stripped



✗ Cable strands damaged or cut



✗ Cable strands not twisted



✗ Cable strands over twisted



✗ Insulation particles on cable core

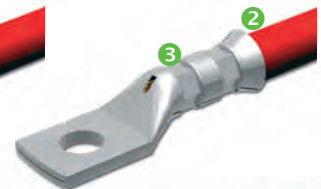
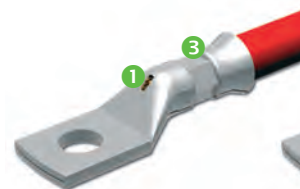


✗ Cable insulation damaged

Crimping

Terminal correctly crimped:

- 1 Cable strands viewed through inspection hole,
- 2 cable correctly stripped and sufficiently introduced into the barrel,
- 3 crimping mark correctly centred on the barrel.



Cable not fully inserted ✗

Crimped off center ✗

Crimped off centre ✗

Incorrect or damaged die, handles appear ✗

Crimps incorrectly positioned ✗



Our technical and commercial department can provide you with technical support services adapted to your needs

Demonstration

-

Maintenance / repair

-

Commissioning

-

Control / verification *

*on site or in our factory

-

Training on crimping techniques



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Traction and rolling stock products

14 Preinsulated terminals, disconnects and pins



22 Copper tubular lugs



33 Aluminium tubular lugs



35 Shunts

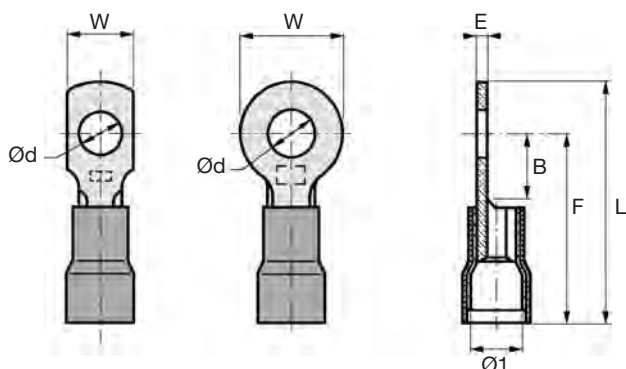




Preinsulated terminals from 0.34 to 6 mm²

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ Suitable for copper cables according NFF or EN standards
- ✓ SNCF drawing : 10-5050-309 / 10-5206-826
- ✓ RATP drawing : MR-3-52964



	 mm ²	 p/n	W	L	E	Ø d	F	B	Ø 1	 SNCF	
0.34 - 1.5 ●		51143-2	5.6	17.3	0.80	3.2	14.5	3.5	3.6	7-847-4839	TH1 or TH1S
		51153-2	8	21	0.80	3.2	17	6	3.6	7-847-5643	
		51153 R-2	6.5	20.5	0.80	3.2	16.5	5.5	3.6	7-847-5603	
		51154-2	8	21	0.80	4.2	17	6	3.6	7-847-5028	
		51154 R-2	6.5	20.5	0.80	4.2	16.5	5.5	3.6	7-847-4654	
		51155-2	8	21	0.80	5.2	17	6	3.6	7-847-1112	
		51134-2	12.5	27	0.80	4.2	20.7	6.5	3.6		
		51135-2	12.5	27	0.80	5.2	20.7	6.5	3.6	7-847-4586	
		51136-2	12.5	27	0.80	6.3	20.7	6.5	3.6	7-847-4251	
		51138-2	12.5	27	0.80	8.4	20.7	6.5	3.6		
1 - 2.5 ●		51183-2	8.6	21	0.80	3.2	16.7	6	4.8	7-847-5237	TH2 or TH2S
		51184-2	8.6	21	0.80	4.2	16.7	6	4.8	7-847-5532	
		51185-2	8.6	21	0.80	5.2	16.7	6	4.8	7-847-5483	
		51174-2	12.5	27	0.80	4.2	20.7	6	4.8		
		51175-2	12.5	27	0.80	5.2	20.7	6	4.8	7-847-5602	
		51176-2	12.5	27	0.80	6.3	20.7	6	4.8	7-847-5484	
		51178-2	12.5	27	0.80	8.4	20.7	6	4.8	7-847-4678	
		51183 R-2	6.4	20.5	0.80	3.2	16.5	5.5	4.8	7-847-4426	
		51184 R-2	6.4	20.5	0.80	4.2	16.5	5.5	4.8	7-847-4250	

Note : part number with "R" suffix are square terminals.

2.6 - 6 ●	STC2-8-4J	13.8	32.5	1	8.3	25.5	8	6.8	7-847-4215
	STC2-10-4J	13.8	32.5	1	10.3	25.5	8	6.8	7-847-4485
2.6 - 6 ●	STC2-8-2JN	13.8	35	1	8.3	28	8	8.8	7-847-4363
	STC2-10-2JN	13.8	35	1	10.3	28	8	8.8	7-847-5390



Cross section
(mm²)



SNCF code



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters

Preinsulated disconnects 2.8 - 5 and 6.35 mm Pin and blade terminals



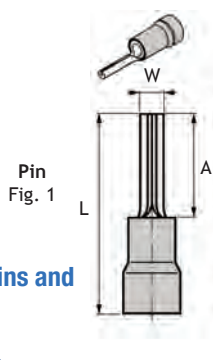
General features

- ✓ Material for disconnects : tin-plated phosphorous bronze
- ✓ Material for pin and blade terminals : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ Suitable for copper cables according NFF or EN standards
- ✓ SNCF drawing : 10-5050-310
- ✓ RATP drawing : MR-3-52965

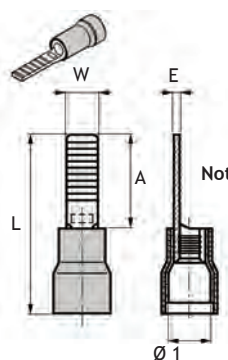


Preinsulated disconnects : 2.8 - 5 and 6.35 m

	 mm ²	 p/n	 l x e	A	B	C	Ø 1	E	 SNCF	
0.34 - 1.5	●	51027(doré)	2.8 x 0.5	3.7	18.5	6.5	3.6	0.25	7-847-4593	TH1 or TH1S
		51031-2	2.8 x 0.5	3.7	18.5	6.5	3.6	0.25	7-847-1903	
		51081-2	5 x 0.8	6.4	21	7.7	3.6	0.5	7-847-4728	
		51181-2	6.35 x 0.8	7.7	21	7.7	3.6	0.5	7-847-4700	
1 - 2.5	●	51131-2	5 x 0.8	6.4	21	7.7	4.8	0.5	7-847-4999	TH2 or TH2S
		51231-2	6.35 x 0.8	7.7	20.2	7.7	4.8	0.5	7-847-4797	»
	○	51161-4BC	5 x 0.8	6.4	25	7.7	6.8	0.5	7-847-4994	TH3
		51161-2NR	5 x 0.8	6.4	27.5	7.7	8.8	0.5		TH3-2
	●	51261-4BC	6.35 x 0.8	7.7	25	7.7	6.8	0.5	7-847-5070	TH3
		51261-2NR	6.35 x 0.8	7.7	27.5	7.7	8.8	0.5	7-847-6798	TH3-2
2.6 - 6	●	51661-4J	6.35 x 0.8	7.7	25	7.7	6.8	0.5		TH3
		51661-2JN	6.35 x 0.8	7.7	25	7.7	8.8	0.5		TH3-2



Pin
Fig. 1



Notched blade terminals
Fig. 2



Preinsulated cable pins and blade terminals

	 mm ²	 p/n		W	A	L	Ø 1	E	 SNCF	
0.34 - 1.5	●	51220-2	Fig. 1	1.6	12	22.5	3.6	1.9	7-847-5051	TH1 or TH1S
		51225-2	Fig. 2	2.9	11.3	21	3.6	0.8	7-847-5556	
1 - 2.5	●	51222-2	Fig. 1	1.8	12	22	4.8	1.8	7-847-5002	TH2 or TH2S
		51226-2	Fig. 2	3.9	12	22	4.8	0.8	7-847-5555	
2.6 - 6	●	51223-4J	Fig. 1	2.5	14.5	28	6.8	2.5	7-847-5003	TH3
		51227-4J	Fig. 2	3.9	13	26.5	6.8	1.0	7-847-5561	
2.6 - 6	●	51223-2JN	Fig. 1	2.5	14.5	28	8.8	2.5	7-847-5393	TH3-2
		51227-2JN	Fig. 2	3.9	13	30.5	8.8	1.0	7-847-5370	



Cross section
(mm²)



SNCF code



For tabs



Crimping tool

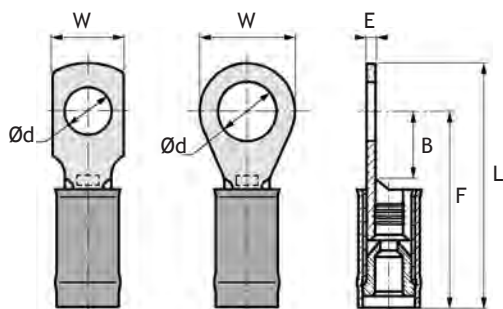
Unless otherwise stated,
all dimensions are in millimeters



Preinsulated terminals for thin insulating conductors according to EN 50306

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5297-405



 mm ²	p/n	 Ø mm	 Ø mm min. max.	Ø d	W	E	L	F	B	Reducer colour	
0.5 ●	451143	1.04	1.15 2	3.2	5.6	0.8	17.3	14.5	3.5		TH1 or TH1S
	451153			3.2	8	0.8	21.5	17.5	6		
	451153R			3.2	6.5	0.8	21	17	5.5		
	451154			4.2	8	0.8	21.5	17.5	6		
	451154R			4.2	6.5	0.8	21	17	5.5		
	451155			5.2	8	0.8	21.5	17.5	6		
	451134			4.2	12.5	0.8	27	20.7	6.5		
	451135			5.2	12.5	0.8	27	20.7	6.5		
	451136			6.3	12.5	0.8	27	20.7	6.5		
	451138			8.4	12.5	0.8	27	20.7	6.5		
0.75 ●	551143	1.15	1.30 2	3.2	5.6	0.8	17.3	14.5	3.5		TH1 or TH1S
	551153			3.2	8	0.8	21.5	17.5	6		
	551153R			3.2	6.5	0.8	21	17	5.5		
	551154			4.2	8	0.8	21.5	17.5	6		
	551154R			4.2	6.5	0.8	21	17	5.5		
	551155			5.2	8	0.8	21.5	17.5	6		
	551134			4.2	12.5	0.8	27	20.7	6.5		
	551135			5.2	12.5	0.8	27	20.7	6.5		
	551136			6.3	12.5	0.8	27	20.7	6.5		
	551138			8.4	12.5	0.8	27	20.7	6.5		
1 ●	351143	1.30	1.45 2	3.2	5.6	0.8	17.3	14.5	3.5		TH1 or TH1S
	351153			3.2	8	0.8	21.5	17.5	6		
	351153R			3.2	6.5	0.8	21	17	5.5		
	351154			4.2	8	0.8	21.5	17.5	6		
	351154R			4.2	6.5	0.8	21	17	5.5		
	351155			5.2	8	0.8	21.5	17.5	6		
	351134			4.2	12.5	0.8	27	20.7	6.5		
	351135			5.2	12.5	0.8	27	20.7	6.5		
	351136			6.3	12.5	0.8	27	20.7	6.5		
	351138			8.4	12.5	0.8	27	20.7	6.5		

Note : part number with "R" suffix are square terminals.



Cross section (mm²)



max. wire Ø



Insulation Ø



Crimping tool

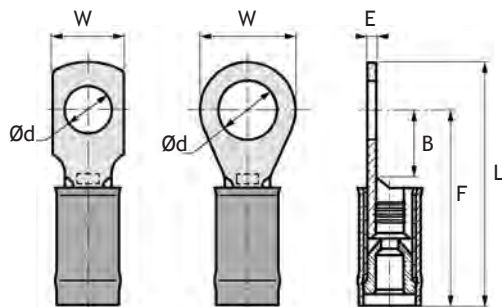
Unless otherwise stated, all dimensions are in millimeters

Preinsulated terminals for thin insulating conductors according to EN 50306



General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5297-405



 mm^2	p/n	 mm	 mm min. max.	Ø d	W	E	L	F	B	Reducer colour	
1.5 ●	451183	1.65	1.80 2.70	3.2	8.6	0.8	21.5	17.2	6		TH2 or TH2S
	451183R			3.2	6.5	0.8	21	17	5.5		
	451184			4.2	8.6	0.8	21.5	17.2	6		
	451184R			4.2	6.5	0.8	21	17	5.5		
	451185			5.2	8.6	0.8	21.5	17.2	6		
	451174			4.2	12.5	0.8	27	20.7	6		
	451175			5.2	12.5	0.8	27	20.7	6		
	451176			6.3	12.5	0.8	27	20.7	6		
	451178			8.4	12.5	0.8	27	20.7	6		
2.5 ●	551183	2.15	2.30 2.90	3.2	8.6	0.8	21.5	17.2	6		TH2 or TH2S
	551183R			3.2	6.5	0.8	21	17	5.5		
	551184			4.2	8.6	0.8	21.5	17.2	6		
	551184R			4.2	6.5	0.8	21	17	5.5		
	551185			5.2	8.6	0.8	21.5	17.2	6		
	551174			4.2	12.5	0.8	27	20.7	6		
	551175			5.2	12.5	0.8	27	20.7	6		
	551176			6.3	12.5	0.8	27	20.7	6		
	551178			8.4	12.5	0.8	27	20.7	6		

Note : part number with "R" suffix are square terminals.



Cross section
(mm^2)



max. wire Ø



Insulation Ø



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters



Preinsulated disconnects and pins terminals for thin insulating conductors according to EN 50306

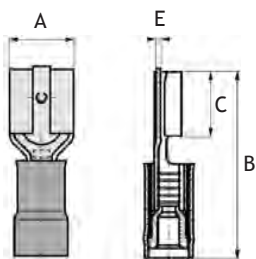
General features

Preinsulated disconnects : tin-plated phosphorous bronze

- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5050-310

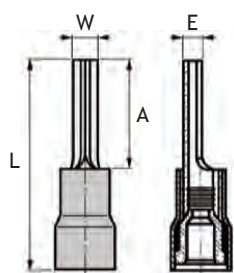
Preinsulated pins terminals ; tinned-plated copper

- ✓ Insulation according to EN 45545
- ✓ SNCF drawing : 10-5297-407



Preinsulated disconnects for thin insulating conductors according to EN 50306

 mm ²	p/n	 l x e	 Ø mm	 Ø mm min. max.	A	B	C	E	Reducer colour	
0.5 ●	451031	2.8x0.5	1.04	1.15 2	3.7	18.5	6.5	0.25		TH1 or TH1S
	451081	5x0.8			6.4	21.5	7.7	0.5		
	451181	6.35x0.8			7.7	21.5	7.7	0.5		
0.75 ●	551031	2.8x0.5	1.15	1.30 2	3.7	18.5	6.5	0.25		TH1 or TH1S
	551081	5x0.8			6.4	21.5	7.7	0.5		
	551181	6.35x0.8			7.7	21.5	7.7	0.5		
1 ●	51033	2.8x0.5	1.30	1.45 2	3.7	18.5	6.5	0.25		TH1 or TH1S
	51083	5x0.8			6.4	21.5	7.7	0.5		
	51183	6.35x0.8			7.7	21.5	7.7	0.5		
1.5 ●	451131	5x0.8	1.65	1.80 2.70	6.4	21.5	7.7	0.5		TH2 or TH2S
	451231	6.35x0.8			7.7	21.5	7.7	0.5		
2.5 ●	551131	5x0.8	2.15	2.30 2.90	6.4	21.5	7.7	0.5		TH2 or TH2S
	551231	6.35x0.8			7.7	21.5	7.7	0.5		



Preinsulated pins terminals for thin insulating conductors according to EN 50306

 mm ²	p/n	 Ø mm	 Ø mm mini max.	A	B	C	E	Reducer colour	
0.5 ●	451220	1.04	1.15 2.0	1.6	12	22.5	1.9		TH1 ou TH1S
0.75 ●	551220	1.15	1.30 2.0	1.6	12	22.5	1.9		
1 ●	351220	1.30	1.45 2.0	1.6	12	22.5	1.9		



Cross section (mm²)



max. wire Ø



Insulation Ø



For tabs



Crimping tools

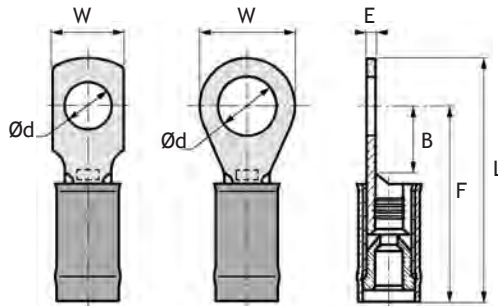
Unless otherwise stated, all dimensions are in millimeters

Preinsulated terminals for thin insulating conductors according to NFF 63808



General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5091-965
- ✓ RATP drawing : MR-3-53173



 mm ²	p/n	 mm	 mm min. max.	Ø d	W	E	L	F	B	Reducer colour	SNCF	
0.6 ●	251153	1.04	1.2 2	3.2	8	0.8	21.5	17.5	6		7-847-7325	TH1 or TH1S
	251153R			3.2	6.5	0.8	21	17	5.5			
	251154			4.2	8	0.8	21.5	17.5	6			
	251154R			4.2	6.5	0.8	21	17	5.5			
	251155			5.2	8	0.8	21.5	17.5	6			
	251134			4.2	12.5	0.8	27	20.7	6.5			
	251135			5.2	12.5	0.8	27	20.7	6.5			
	251136			6.3	12.5	0.8	27	20.7	6.5			
0.93 ●	251138	1.3	1.4 2	8.4	12.5	0.8	27	20.7	6.5		7-847-1234	TH1 or TH1S
	351153			3.2	8	0.8	21.5	17.5	6			
	351153R			3.2	6.5	0.8	21	17	5.5			
	351154			4.2	8	0.8	21.5	17.5	6			
	351154R			4.2	6.5	0.8	21	17	5.5			
	351155			5.2	8	0.8	21.5	17.5	6			
	351134			4.2	12.5	0.8	27	20.7	6.5			
	351135			5.2	12.5	0.8	27	20.7	6.5			
1.34 ●	251136	1.5	1.6 2.6	6.3	12.5	0.8	27	20.7	6.5			TH2 or TH2S
	251178			8.4	12.5	0.8	27	20.7	6			
	351183			3.2	8.6	0.8	21.5	17.2	6			
	351183R			3.2	6.5	0.8	21	17	5.5			
	351184			4.2	8.6	0.8	21.5	17.2	6			
	351184R			4.2	6.5	0.8	21	17	5.5			
	351185			5.2	8.6	0.8	21.5	17.2	6			
	351174			4.2	12.5	0.8	27	20.7	6			
1.82 ●	251175	1.73	1.9 2.6	5.2	12.5	0.8	27	20.7	6		7-847-7038	TH2 or TH2S
	251176			6.3	12.5	0.8	27	20.7	6			
	351178			8.4	12.5	0.8	27	20.7	6			
	351183			3.2	8.6	0.8	21.5	17.2	6			
	351183R			3.2	6.5	0.8	21	17	5.5			
	351184			4.2	8.6	0.8	21.5	17.2	6			
	351184R			4.2	6.5	0.8	21	17	5.5			
	351185			5.2	8.6	0.8	21.5	17.2	6			

Note : part number with "R" suffix are square terminals.



Cross section (mm²)



max. wire Ø



Insulation Ø



Crimping tool



SNCF code

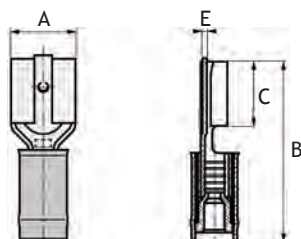
Unless otherwise stated, all dimensions are in millimeters



Preinsulated disconnects 2.8 - 5 and 6.35 and pins terminals for thin insulating conductors according to NFF 63808

General features

- ✓ Material : tin-plated phosphorous bronze
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5091-966
- ✓ RATP drawing : MR-3-53172

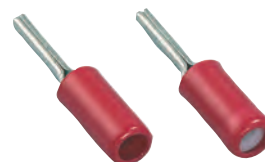
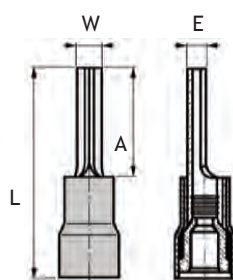


Preinsulated disconnects 2.8 - 5 and 6.35 for thin insulating conductors according to NFF 63808

 mm ²	p/n	 l x e	 Ø mm	 Ø mm min. max.	A	B	C	E	Reducer colour	SNCF	
0.6 ●	51032	2.8 x 0.5	1.04	1.2 2	3.7	18.5	6.5	0.25		0-847-6041 0-847-6042	TH1 or TH1S
	51082	5 x 0.8		1.2 2	6.4	21.5	7.7	0.5			
	51182	6.3 x 0.8		1.2 2	7.7	21.5	7.7	0.5			
0.93 ●	51033	2.8 x 0.5	1.3	1.4 2	3.7	18.5	6.5	0.25		0-847-6036 0-847-6038	TH1 or TH1S
	51083	5 x 0.8		1.4 2	6.4	21.5	7.7	0.5			
	51183	6.3 x 0.8		1.4 2	7.7	21.5	7.7	0.5			
1.34 ●	51132	5 x 0.8	1.5	1.6 2.6	6.4	21.5	7.7	0.5		0-847-6043	TH2 or TH2S
	51232	6.3 x 0.8		1.6 2.6	7.7	21.5	7.7	0.5			
1.82 ●	51133	5 x 0.8	2.6	1.9 2.6	6.4	21.5	7.7	0.5		0-847-6039 0-847-6040	TH2 or TH2S
	51233	6.3 x 0.8		1.9 2.6	7.7	21.5	7.7	0.5			

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5100-991
- ✓ RATP drawing : MR-3-53170



Pins terminals for thin insulating conductors according to NFF 63808

 mm ²	p/n	 Ø mm	 Ø mm mini max.	W	A	L	E	Reducer colour	
0.6 ●	251220	1.04	1.2 2	1.6	12	22.5	1.9		TH1 or TH1S
0.93 ●	351220	1.3	1.4 2	1.6	12	22.5	1.9		



Cross section (mm²)



max. wire Ø



Insulation Ø



SNCF code



For tabs

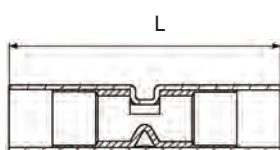


Crimping tools

Unless otherwise stated, all dimensions are in millimeters

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ SNCF drawing : 10-5194-221
- ✓ RATP drawing : MR-3-53171



 mm ²	 p/n	 Ø mm max.	L	 SNCF	
0.34 - 1.5 ●	51391	3.6	32	7-847-4323	TH1 + stopper HF20 or TH1S
1 - 2.5 ●	51402	4	32	7-847-4344	TH2 + stopper HF20 or TH2S
2.6 - 6 ●	51413	5.5	41.5	7-847-4120	TH3



Cross section
(mm²)



SNCF code



Insulation Ø



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters

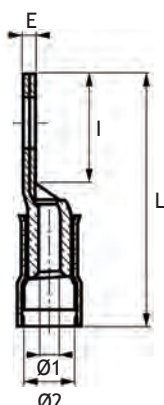
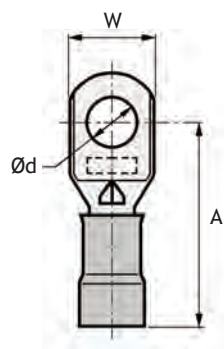


Copper tubular lugs

Low power preinsulated copper tubular lugs

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ Suitable for copper cables according NFF or EN standards
- ✓ SNCF drawing : 10-5102-962
- ✓ RATP drawing : MR-3-52970



51190+ series



p/n

W

L

E

Ø d

A

I

Ø 1

Ø 2

SNCF



1 - 2.5 ○

51193-4BC
51193R4BC
51193RR4BC
51194-4BC
51194R4BC
51194RR4BC

11
8.5
8.5
11
8.5
8.5

32
32
29
32
32
29

1.6
2.2
2.2
1.6
2.2
2.2

3.2
3.2
3.2
4.2
4.2
4.2

25.8
25.8
23.5
25.8
25.8
23.5

13.6
13.6
10
13.6
13.6
10

2.8

6.8

7-847-7033
7-847-4628

7-847-7031
7-847-5040

7-847-4837
7-847-4540

7-847-7032
7-847-5605

TH3

1 - 2.5 ●

51193-2NR
51193R2NR
51193RR2NR
51194-2NR
51194R2NR
51194RR2NR
51195-2NR
51195R2NR
51195RR2NR
51196-2NR
51198-2NR

11
8.5
8.5
11
8.5
8.5
11
8.5
8.5
11
12.5

34
34
31
34
34
31
34
34
31
34
34

1.6
2.2
2.2
1.6
2.2
2.2
1.6
2.2
2.2
1.6
1.0

3.2
3.2
3.2
4.2
4.2
4.2
5.2
5.2
5.2
6.4
8.4

27.8
27.8
25.5
27.8
27.8
25.5
27.8
27.8
25.5
27.8
27.8

13.6
13.6
10
13.6
13.6
10
13.6
13.6
10
13.6
14

2.8

8.8

7-847-5366

7-847-5365

7-847-7034
7-847-5363

7-847-5362
7-847-5364

TH3-2



Cross section
(mm²)



SNCF code



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters

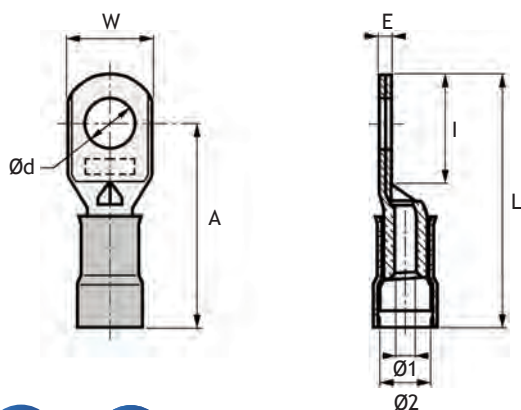
Copper tubular lugs

Low power preinsulated copper tubular lugs



General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ Suitable for copper cables according NFF or EN standards
- ✓ SNCF drawing : 10-5102-963
- ✓ RATP drawing : MR-3-52969



C3P+ series



p/n

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SNCF



2.6 - 6 ●	C3P40-4J	11	32	1.2	4.2	25.8	13.6	3.5	6.8	7-847-4955	TH3
	C3P40R4J	8,5	32	1.5	4.2	25.8	13.6				
	C3P40RR4J	8,5	28	1.5	4.2	24	10				
	C3P40RRS4J	7,5	32	1.9	4.2	27.8	14				
	C3P50-4J	11	32	1.2	5.2	25.8	13.6			7-847-4956	
	C3P50R4J	8,5	32	1.5	5.2	25.8	13.6				
	C3P50RR4J	8,5	28	1.5	5.2	22.8	10				
	C3P60-4J	11	32	1.2	6.4	25.8	13.6			7-847-4957	
	C3P80-4J	12,5	32	1.2	8.4	25.8	13.6				
2.6 - 6 ●	C3P40-2JN	11	34	1.2	4.2	27.8	13.6	3.5	8.8	7-847-5485	TH3-2
	C3P40R2JN	8,5	34	1.5	4.2	27.8	13.6				
	C3P40RR2JN	8,5	28	1.5	4.2	24	10				
	C3P50-2JN	11	34	1.2	5.2	27.8	13.6			7-847-5486	
	C3P50R2JN	8,5	34	1.5	5.2	27.8	13.6				
	C3P50RR2JN	8,5	28	1.5	5.2	22.8	10				
	C3P60-2JN	11	34	1.2	6.4	27.8	13.6			7-847-5487	
	C3P80-2JN	12,5	34	1.2	8.4	27.8	13.6				



Cross section
(mm²)



SNCF code



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters

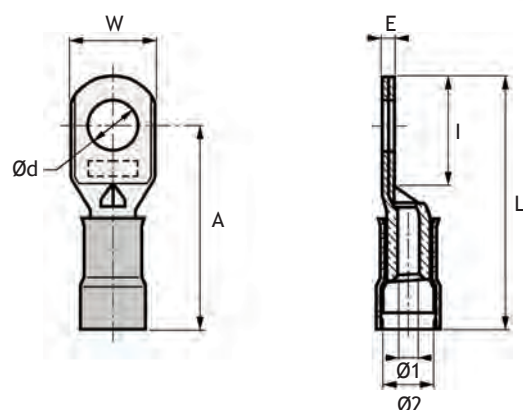


Copper tubular lugs

Medium power preinsulated copper tubular lugs

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ Comply with NFF 00363
- ✓ Suitable for copper cables according NFF or EN standards
- ✓ SNCF drawing : 10-5050-317
- ✓ RATP drawing : MR-3-52971



ELP series

FLP series

NP series



p/n

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SNCF

		W	L	E	Ø d	A	I	Ø 1	Ø 2	SNCF
10	ELP40	14	42	2.5	4.2	34	17	5	11.2	7-847-5044
	ELP50	14	42	2.5	5.2	34	17	5	11.2	7-847-4963
	ELP60	14	42	2.5	6.3	34	17	5	11.2	7-847-4964
	ELP80	14	42	2.5	8.3	34	17	5	11.2	7-847-4965
	ELP100	16.5	44	2.0	10.3	36	20	5	11.2	7-847-4966
	ELP120	16.5	44	2.0	12.8	36	20	5	11.2	
	ELPU40	10	42	3.3	4.2	32	17	5	11.2	
	ELPU50	10	42	3.3	5.2	32	17	5	11.2	
	ESPU50	13	42	2.3	5.2	34	17	5	11.2	
16	FLP50	15	46	2.5	5.2	38	20	6	13	7-847-5734
	FLP60	15	46	2.5	6.3	38	20	6	13	7-847-4969
	FLP80	15	46	2.5	8.3	38	20	6	13	7-847-4970
	FLP100	18	46	2	10.3	38	21	6	13	7-847-4971
	FLP120	18	46	2	12.6	38	21	6	13	
	FLPU50	12.5	46	3.0	5.2	38	20	6	13	
25	NP50	15	53	2.5	5.2	43	23	7.7	13.8	7-847-5491
	NP60	15	53	2.5	6.3	43	23	7.7	13.8	7-847-4974
	NP80	15	53	2.5	8.3	43	23	7.7	13.8	7-847-4975
	NP100	17.5	53	2.2	10.3	43	23	7.7	13.8	7-847-5589
	NP120	17.5	53	2.2	12.8	43	23	7.7	13.8	



Cross section
(mm²)



SNCF code

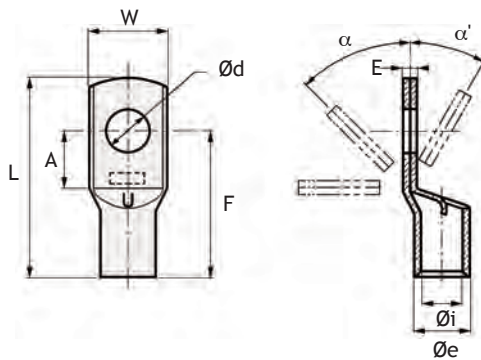


Crimping tool

Unless otherwise stated,
all dimensions are in millimeters

General features

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363, BS 4579 pt2, RSE/STD/024 pt7
- ✓ Suitable for copper cables according NFF and EN standard
- ✓ For bent terminals, specify α or α' (α max. 90° - α' max. 45°)
- ✓ SNCF drawing : 10-5050-311
- ✓ RATP drawing : MR-3-52966



ELS and FLS series

	mm ²	p/n	W	L	E	Ø d	A	F	Ø i	Ø e	SNCF
10		ELS40	14	34	2.5	4.2	9	26	5	8	7-847-7211
		ELS50	14	34	2.5	5.2	9	26	5	8	7-847-7212
		ELS60	14	34	2.5	6.4	9	26	5	8	7-847-7213
		ELS80	14	34	2.5	8.3	9	26	5	8	7-847-7214
		ELS100	16.5	36	2	10.3	12	28	5	8	7-847-7215
		ELS120	16.5	36	2	12.8	12	28	5	8	7-847-7216
		ELSU40	10	34	3.3	4.2	12	25	5	8	
16		FLS50	15	37	2.5	5.2	12	29	6	9	
		FLS60	15	37	2.5	6.4	12	29	6	9	7-847-7217
		FLS80	15	37	2.5	8.3	12	29	6	9	7-847-7218
		FLS100	17	38	2	10.3	13	30	6	9	7-847-7219
		FLS120	17	38	2	12.8	13	30	6	9	7-847-7220
		FLSU50	12.5	37	3	5.2	13	29	6	9	



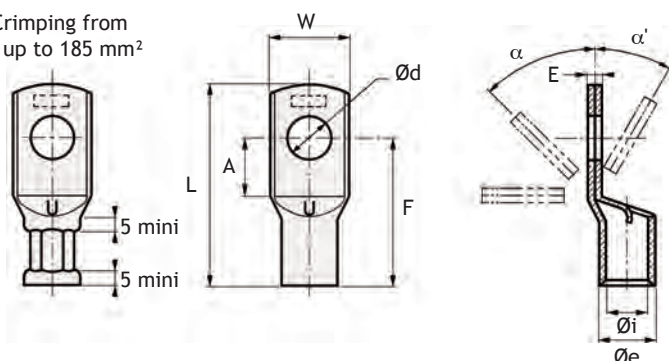
Copper tubular lugs

General features

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363, BS 4579 pt2, RSE/STD/024 pt7
- ✓ Suitable for copper cables according NFF and EN standard
- ✓ For bent terminals, specify α or α' (α max. 90° - α' maxi 45°)
 - from 25 up to 185 mm^2 : only one crimping
 - from 240 up to 300 mm^2 : two crimping
- ✓ SNCF drawing : 10-5050-311
- ✓ RATP drawing : MR-3-52966



Crimping from
25 up to 185 mm^2



TN series



mm^2

p/n

W

L

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SNCF

		W	L	E	Ø d	A	F	Ø i	Ø e	SNCF
25	TN25-5	15	45	2.5	5.2	13	35	7.7	10.5	7-847-5853
	TN25-6	15	45	2.5	6.4	13	35	7.7	10.5	7-847-5854
	TN25-8	15	45	2.5	8.3	13	35	7.7	10.5	7-847-5855
	TN25-10	17.5	45	2.2	10.3	13	35	7.7	10.5	7-847-4147
35	TN35-6	18	50	3.0	6.4	13	39	9.0	12	7-847-7222
	TN35-8	18	50	3.0	8.3	13	39	9.0	12	7-847-7223
	TN35-10	18	50	3.0	10.3	13	39	9.0	12	7-847-7224
50	TN50-6	21	58	3.0	6.4	14	46	10.8	14	7-847-5860
	TN50-8	21	58	3.0	8.3	14	46	10.8	14	7-847-5861
	TN50-10	21	58	3.0	10.3	14	46	10.8	14	7-847-5862
	TN50-12	21	58	3.0	12.8	14	46	10.8	14	7-847-5863
60	TN60-8	22	60	3.2	8.3	14	42	11.8	15	
	TN60-10	22	60	3.2	10.3	14	42	11.8	15	
	TN60-12	22	60	3.2	12.8	14	42	11.8	15	
70	TN70-8	23	66	3.5	8.3	17	51	12.5	16	7-847-5864
	TN70-10	23	66	3.5	10.3	17	51	12.5	16	7-847-5865
	TN70-12	23	66	3.5	12.8	17	51	12.5	16	7-847-5866
95	TN95-10	27	73	4.0	10.3	18	56.5	14.5	18.5	7-847-5868
	TN95-12	27	73	4.0	12.8	18	56.5	14.5	18.5	7-847-5869
	TN95-14	27	73	4.0	14.5	18	56.5	14.5	18.5	7-847-5870



Cross section
(mm^2)



SNCF code

Unless otherwise stated,
all dimensions are in millimeters

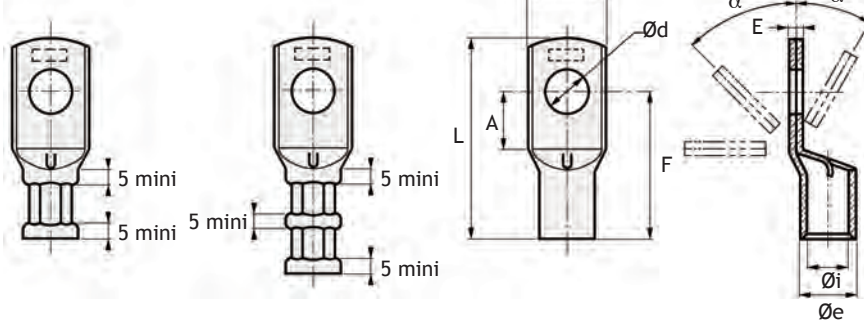
General features

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363, BS 4579 pt2, RSE/STD/024 pt7
- ✓ Suitable for copper cables according NFF and EN standard
- ✓ For bent terminals, specify α or α' (α max. 90° - α' max. 45°)
 - from 25 up to 185 mm^2 : only one crimping
 - from 240 up to 300 mm^2 : two crimping
- ✓ SNCF drawing : 10-5050-311
- ✓ RATP drawing : MR-3-52966



Crimping from
25 up to 185 mm^2

Crimping from
240 up to 300 mm^2



TN series

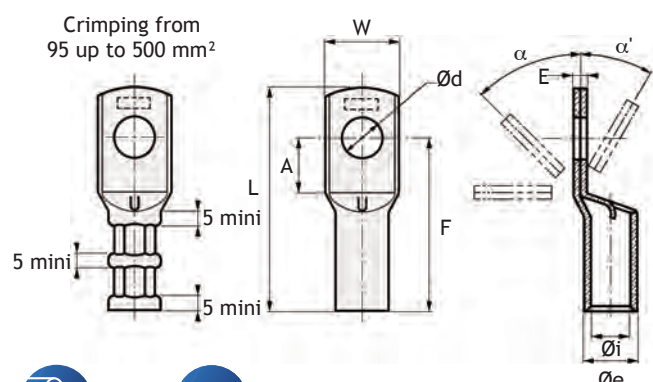
	 mm^2	 p/n	W	L	E	Ø d	A	F	Ø i	Ø e	 SNCF
120	TN120-10		30	83.5	4.5	10.3	21	66	16.5	21	
	TN120-12		30	83.5	4.5	12.8	21	66	16.5	21	7-847-5871
	TN120-14		30	83.5	4.5	14.5	21	66	16.5	21	7-847-5872
	TN120-16		30	83.5	4.5	16.5	21	66	16.5	21	7-847-5873
150	TN150-10		32	90	4.5	10.3	23	71	18	23	
	TN150-12		32	90	4.5	12.8	23	71	18	23	7-847-5620
	TN150-14		32	90	4.5	14.5	23	71	18	23	7-847-5874
	TN150-16		32	90	4.5	16.5	23	71	18	23	7-847-5875
185	TN150-18		32	90	4.5	18.8	23	71	18	23	7-847-5876
	TN185-12		38	102	5.5	12.8	23	78	20.5	26	7-847-5877
	TN185-14		38	102	5.5	14.5	23	78	20.5	26	7-847-5878
	TN185-16		38	102	5.5	16.5	23	78	20.5	26	7-847-5879
240	TN185-18		38	102	5.5	18.8	23	78	20.5	26	7-847-5880
	TN240-14		42	110	6	14.5	28	86	23	29	7-847-5881
	TN240-16		42	110	6	16.5	28	86	23	29	7-847-5882
	TN240-18		42	110	6	18.8	28	86	23	29	7-847-5883
300	TN240-20		42	110	6	21	28	86	23	29	
	TN300-16		48	123	7	16.5	32	97	26	33	7-847-4146
	TN300-18		48	123	7	18.8	32	97	26	33	7-847-5884
	TN300-20		48	123	7	21	32	97	26	33	
	TN300-22		48	123	7	22.9	32	97	26	33	7-847-5885



Copper tubular lugs

General features

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363, BS 4579 pt2, RSE/STD/024 pt7
- ✓ Suitable for copper cables according NFF and EN standard
- ✓ For bent terminals, specify α or α' (α max. 90° - α' maxi 45°)
 - from 25 up to 185 mm² : only one crimping
 - from 240 up to 300 mm² : two crimping
- ✓ SNCF drawing : 10-5050-312
- ✓ RATP drawing : MR-3-52967



TR series



p/n

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SNCF

		W	L	E	Ø d	A	F	Ø i	Ø e	
95	TR95-10	30.5	80	6	10.3	18.3	64	15.5	21.5	
	TR95-12	30.5	80	6	12.8	18.3	64	15.5	21.5	
	TR95-14	30.5	80	6	14.5	18.3	64	15.5	21.5	
	TR95-16	30.5	80	6	16.5	18.3	64	15.5	21.5	
	TR95-18	30.5	80	6	18.8	18.3	64	15.5	21.5	
120	TR120-10	34	88.5	6.6	10.3	24	70.5	17.6	24.5	
	TR120-12	34	88.5	6.6	12.8	24	70.5	17.6	24.5	
	TR120-14	34	88.5	6.6	14.5	24	70.5	17.6	24.5	
	TR120-16	34	88.5	6.6	16.5	24	70.5	17.6	24.5	
	TR120-18	34	88.5	6.6	18.8	24	70.5	17.6	24.5	
150	TR150-10	37	96	7	10.3	21	75	19	26	
	TR150-12	37	96	7	12.8	21	75	19	26	
	TR150-14	37	96	7	14.5	21	75	19	26	
	TR150-16	37	96	7	16.5	21	75	19	26	
	TR150-18	37	96	7	18.8	21	75	19	26	
185	TR150-20	37	96	7	21	21	75	19	26	
	TR185-12	40	104.5	7	12.8	27	82.5	21	28	
	TR185-14	40	104.5	7	14.5	27	82.5	21	28	
	TR185-16	40	104.5	7	16.5	27	82.5	21	28	
	TR185-18	40	104.5	7	18.8	27	82.5	21	28	
240	TR185-20	40	104.5	7	21	27	82.5	21	28	
	TR185-22	40	104.5	7	22.9	27	82.5	21	28	
	TR240-16	44	112	7	16.5	27	88	24	31	
	TR240-18	44	112	7	18.8	27	88	24	31	
	TR240-20	44	112	7	21	27	88	24	31	
300	TR240-22	44	112	7	22.9	27	88	24	31	
	TR300-16	50	130	8.5	16.5	28	103	26.5	35	
	TR300-18	50	130	8.5	18.8	28	103	26.5	35	
	TR300-20	50	130	8.5	21	28	103	26.5	35	
	TR300-22	50	130	8.5	22.9	28	103	26.5	35	
400	TR300-24	50	130	8.5	25	28	103	26.5	35	
	TR400-24	60.5	130	9	24.9	28	100	33	42	
500	TR500-30	72	140	10	30.9	32	110	40	50	



Cross section
(mm²)



SNCF code

Unless otherwise stated,
all dimensions are in millimeters

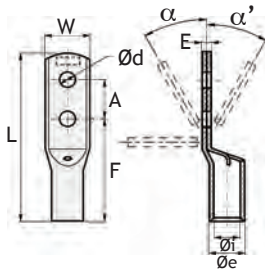
Copper tubular lugs

Two hole copper tubular lugs



General features

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363
- ✓ For bent terminals, specify α or α' (α max. 90° - α' max. 45°)
- ✓ Note : for TN series : two hexagonal crimping from 240 mm^2 for TRS series : two hexagonal crimping



TRS series



TN series

Two hole and narrow palm terminal



p/n

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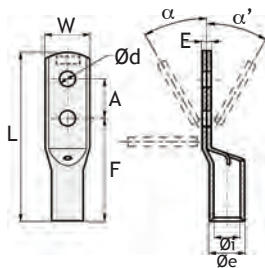
F

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SNCF

mm ²		W	L	E	Ø d	A	F	Ø i	Ø e	
185	TRS185	34.5	151	7	12.8	40	90	21.8	28.5	
240	TRS240	34.5	150	7	12.8	40	90	24	30.6	
400	TRS400	49.5	180	9	14.8	50	105	26.5	35	



Two hole foolproofing lugs for motor terminal box



p/n

W

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SNCF

mm ²		W	L	E	Ø d	A	F	Ø i	Ø e	
50	TN50-10-24	20	86	3	10.3	24	47	10.8	14	
	TN50-10-29	20	91	3	10.3	29	47	10.8	14	
	TN50-10-34	20	96	3	10.3	34	47	10.8	14	
70	TN70-10-24	23	87	3.5	10.3	24	51	12.5	16	
	TN70-10-29	23	94	3.5	10.3	29	51	12.5	16	
	TN70-10-34	23	99	3.5	10.3	34	51	12.5	16	
95	TN95-10-24	27.5	93	4	10.3	24	56.5	14.5	18.5	
	TN95-10-29	27.5	98	4	10.3	29	56.5	14.5	18.5	
	TN95-10-34	27.5	103	4	10.3	34	56.5	14.5	18.5	
120	TN120-10-24	30	105	4.5	10.3	24	68	16.5	21	
	TN120-10-29	30	105	4.5	10.3	29	63	16.5	21	
	TN120-10-34	30	105	4.5	10.3	34	58	16.5	21	

Two hole terminals - NEMA space (25.4 mm)

		W	L	E	Ø d	A	F	Ø i	Ø e	
70	TN70-10-25,4	23	87	3.5	10.3	25.4	49.5	12.5	16	
95	TN95-10-25,4	26.5	94	4	10.3	25.4	53.5	14.5	18.5	
120	TN120-10-25,4	30	102	4.5	10.3	25.4	61.5	16.5	21	
150	TN150-10-25,4	33	109	5	10.3	25.4	67.5	18	23	
240	TN240-10-25,4	42	113.5	6	10.3	25.4	73	23	29	



Cross section
(mm²)



SNCF code

Unless otherwise stated,
all dimensions are in millimeters

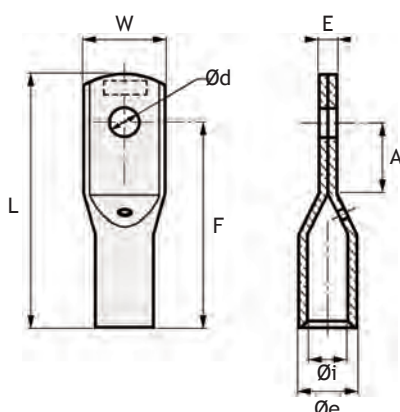


Copper tubular lugs

Copper tubular lugs with axial palm and narrow palm, especially suitable to go through cable glands

General features

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363
- ✓ Note : two hexagonal crimping from 185 mm²
- ✓ SNCF drawing : 10-5050-313
- ✓ RATP drawing : MR-3-52968



TRS series

 mm ²	 p/n	W	L	E	Ø d	A	F	Ø i	Ø e	 SNCF	Comments
95	TRS95-10	24	82	6	10.3	30	67	15.5	21.5		Narrow palm
	TRS95-12	24	82	6	12.8	30	67	15.5	21.5		
120	TRS446-10	23	73	6	10.3	18	56	16.5	22.5	0-847-6109	Narrow palm
	TRS446-12	23	73	6	12.8	18	56	16.5	22.5	0-847-6107	
	TRS446-14	23	73	6	14.5	18	56	16.5	22.5		
	TRS448-10	23	86	6	10.3	28	67	16.5	22.5		
	TRS448-12	23	86	6	12.8	28	67	16.5	22.5		
	TRS448-14	23	86	6	14.5	28	67	16.5	22.5		
150	TRS450	30	90	6	12.8	27	71	18.5	24.5		Narrow palm
	TRS450-14	30	90	6	14.5	27	71	18.5	24.5		
185	TRS452-12	32	107	7	12.8	40	87	21	27		Narrow palm
	TRS452	32	107	7	14.5	40	87	21	27		
	TRS452-16	32	107	7	16.5	40	87	21	27		
	TRS4520BL	32	107	7	17/19	40	87	21	27		Oblong hole
240	TRS455	32	107	8	14.5	28	86	23	29		Machining lug drawing 10-5091834
	TRS455-12PE	29.5	107	8	12.8	28	86	23	29		Machining lug with narrow palm



Cross section (mm²)



SNCF code

Unless otherwise stated, all dimensions are in millimeters

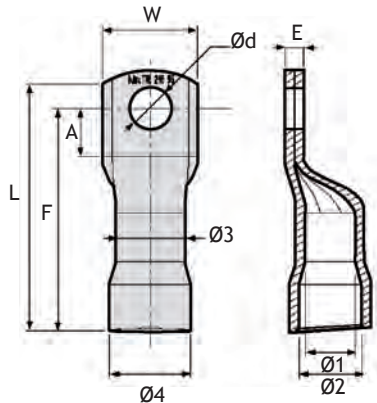
Copper tubular lugs

Copper tubular lugs for flexible copper cables with insulation crimping



General features

- ✓ Tin plated copper
- ✓ "B" crimp one wire
- ✓ hexagonal crimping for insulation



p/n

		W	L	E	Ø d	A	F	Ø 1	Ø 2	Ø 3	Ø 4	Wire crimping	Dies Insulation crimping
35	TRS243-8	20	71	3.8	8.3	10	61	10	13.5	14	17.5	C12TRS243BS	C12TRS243FH C12TRS243EXPFH
	TRS243-10	20	71	3.8	10.3	10	61	10	13.5	14	17.5		
	TRS243-8EXP	20	70	3.8	8.3	10	60	10	14.5	14	18.5		
	TRS243-10EXP	20	70	3.8	10.3	10	60	10	14.5	14	18.5		
50	TRS244-10	23	79	6	10.3	13	67	11	16	17	22	C12TRS244BS	C12TRS244FH C12TRS244EXPFH
	TRS244-12	23	79	6	12.3	13	67	11	16	17	22		
	TRS244-10EXP	23	78	6	10.3	13	66	11	17	17	23		
	TRS244-12EXP	23	78	6	12.3	13	66	11	17	17	23		
70	TRS245-10	26	82	4.4	10.3	13	70	13.5	17.5	18	22	C12TRS245BS	C12TRS245FH C12TRS245EXPFH
	TRS245-12	26	82	4.4	12.8	13	70	13.5	17.5	18	22		
	TRS245-10EXP	26	81	4.4	10.3	13	69	13.5	18.5	18	23		
	TRS245-12EXP	26	81	4.4	12.8	13	69	13.5	18.5	18	23		
95	TRS246-10	30	82	6	10.3	15	70	15.5	19.5	21.5	25.5	C12TRS246BS	C12TRS246FH C12TRS246EXPFH
	TRS246	30	82	6	12.8	15	70	15.5	19.5	21.5	25.5		
	TRS246-10EXP	30	81.5	6	10.3	15	69.5	15.5	20.5	21.5	26.5		
	TRS246EXP	30	81.5	6	12.8	15	69.5	15.5	20.5	21.5	26.5		



Cross section
(mm²)

Unless otherwise stated,
all dimensions are in millimeters

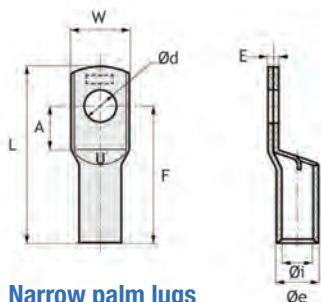


Copper tubular lugs

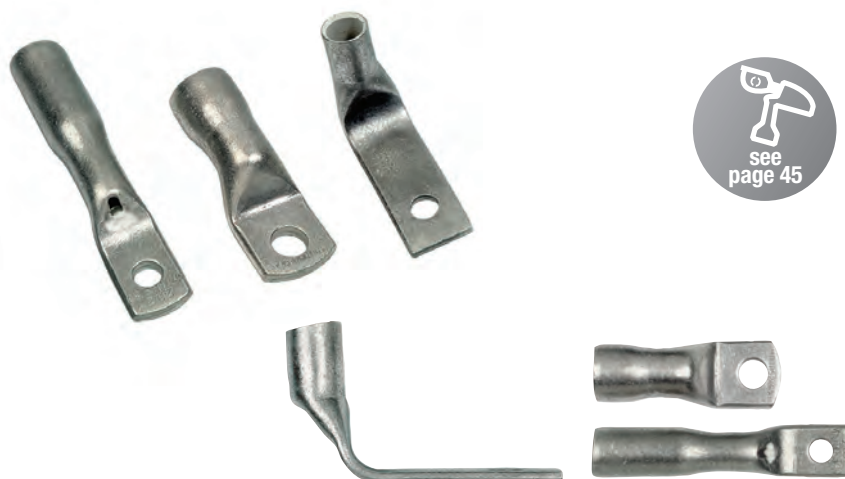
Special copper tubular lugs

General features

- ✓ Material : tin plated copper
- ✓ According to NFF 00363



Narrow palm lugs



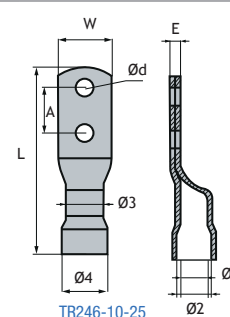
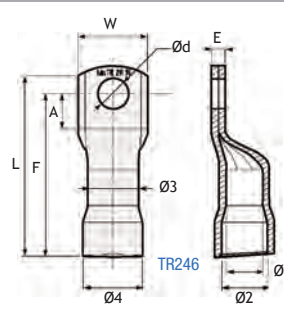
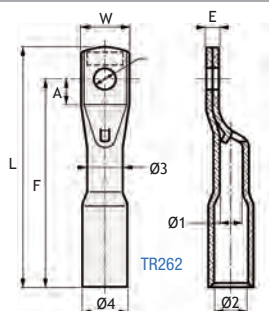
		W	L	E	Ø d	A	F	Ø i	Ø e	Comments
185	TRS185-1B	34.5	111	7	12.8	20.5	92	21.8	28.5	Die TRS185, 2 crimps
240	TRS240-1B	34.5	110	7	12.8	21.5	90.5	24	30.6	Die TRS240, 2 crimps
	TRS242-12	38	110	6	12.8	28	86	23	30	Die TRS258, 2 crimps

Back traction copper lugs with insulation crimping

TRS262 : SNCF code 7-847-7035

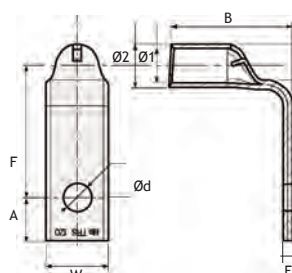
SNCF drawing 10-5050-314

RATP drawing : MR-3-53174



		W	L	E	Ø d	A	F	Ø 1	Ø 2	Ø 3	Ø 4	Comments
50	TRS262	23.3	115	6	10.6	13	100.5	10.6	16.2	17	21.5	1 wire crimping + 1 insulation crimping
95	TRS246	30	82	6	12.8	15	70	15.5	19.5	21.5	25.5	
	TRS246-10-25	30	107	6	10.3	25.2	70	15.5	19.5	21.5	25.5	
120	TRS247	30	92	6.9	12.8	15	80	17.5	22.3	24.5	29.3	

Specific bent lugs



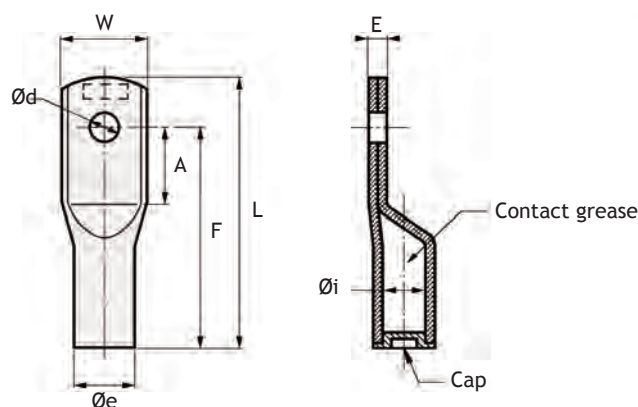
		W	B	E	Ø d	A	F	Ø 1	Ø 2	Comments
95	TRS95-12-90E	26.5	44	3.6	12.8	16	76	14.5	18.5	Die TN95, 1 crimping
	TRS95-16-90E	18.5	44	3.6	16.5	16	76	14.5	18.5	
120	TRS120-12-90E	30.2	60	4.5	12.8	16	65	16.5	21	Die TN120, 1 crimping
	TRS150-12-90E	33	60	5	12.8	19	65	18	23	
150	TRS150-16-90E	33	60	5	16.5	16	65	18	23	Die TN150, 1 crimping
	TRS185-12-90E	37.5	76	5.5	12.8	24	70	20.6	26	
185	TRS185-12-90E	37.5	76	5.5	12.8	24	70	20.6	26	Die TN185, 1 crimping
240	TRS240-16-90E	42	81	6	16.5	24	75	23	29	



Unless otherwise stated,
all dimensions are in millimeters

General features

- ✓ Material : tin plated aluminium
- ✓ According to NFF 00363
- ✓ SNCF drawing : 10-5089-290
- ✓ RATP drawing : MR-3-53175
- ✓ Note : from 50 up to 150 mm² : two hexagonal crimping



 mm ²	p/n	W	L	E	Ø d	A	F	Ø i	Ø e	SNCF
50	AL50-6	20.6	65	5	6.4	17	52	10.8	15.8	
	AL50-8	20.6	65	5	8.3	17	52	10.8	15.8	
	AL50-10	20.6	65	5	10.3	17	52	10.8	15.8	
	AL50-12	20.6	65	5	12.8	17	52	10.8	15.8	
60	AL60-8	20.6	69	5	8.3	20	56	11.6	16.3	
	AL60-10	20.6	69	5	10.3	20	56	11.6	16.3	7-847-4595
70	AL70-8	21	82	4.6	8.3	22.5	65	12.5	17	
	AL70-10	21	82	4.6	10.3	22.5	65	12.5	17	
	AL70-12	21	82	4.6	12.8	22.5	65	12.5	17	
95	AL95-8	28	87	6	8.3	24.5	70.5	14	20	
	AL95-10	28	87	6	10.3	24.5	70.5	14	20	
	AL95-12	28	87	6	12.8	24.5	70.5	14	20	
	AL95-14	28	87	6	14.5	24.5	70.5	14	20	
120	AL120-10	28	87	6	10.3	24.5	70.5	16.5	22	
	AL120-12	28	87	6	12.8	24.5	70.5	16.5	22	
	AL120-14	28	87	6	14.5	24.5	70.5	16.5	22	
150	AL150-10	28.5	95	6	10.3	28	82	18.5	24	
	AL150-12	28.5	95	6	12.8	28	82	18.5	24	
	AL150-14	28.5	95	6	14.5	28	82	18.5	24	
	AL150-16	28.5	95	6	16.5	28	82	18.5	24	
	AL150 B-14	28.5	110	6	14.5	25.5	90	18.5	24	7-847-8251
	AL150 B-16	28.5	110	6	16.5	25.5	90	18.5	24	
	AL150 B-18	28.5	110	6	18.8	25.5	90	18.5	24	



Cross section
(mm²)



SNCF code

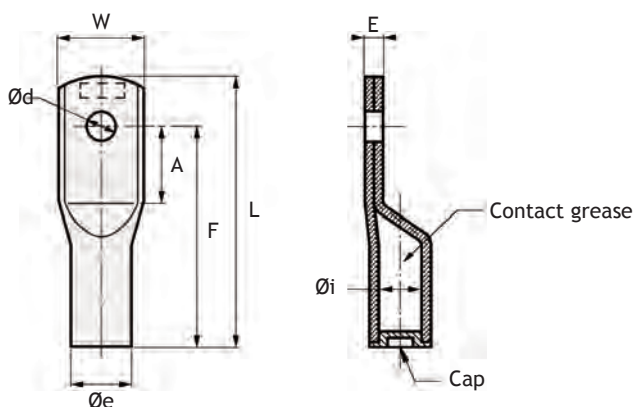
Unless otherwise stated,
all dimensions are in millimeters



Aluminium tubular lugs

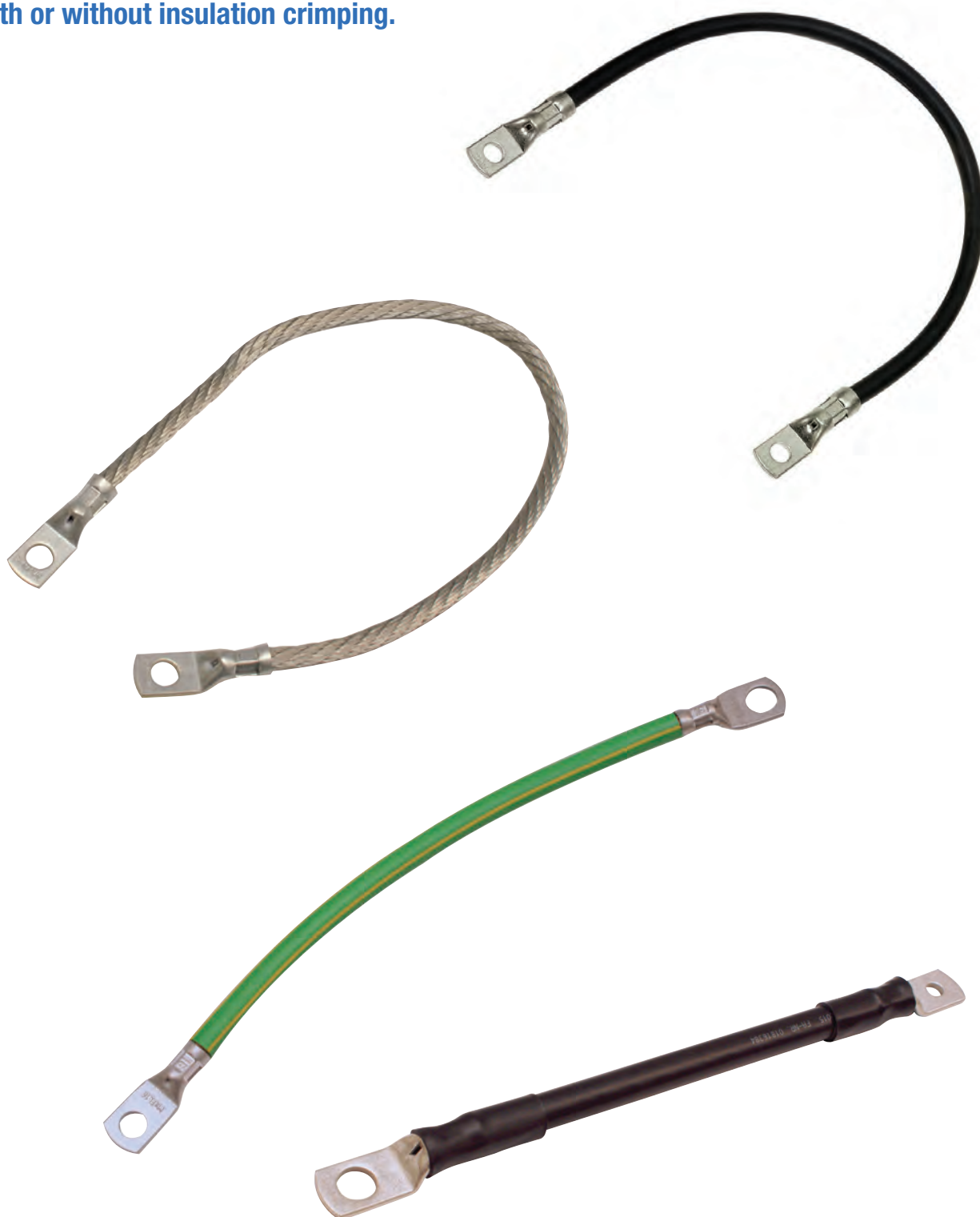
General features

- ✓ Material : tin plated aluminium
- ✓ According to NFF 00363
- ✓ SNCF drawing : 10-5089-290
- ✓ RATP drawing : MR-3-53175
- ✓ Note : from 185 up to 460 mm² : two hexagonal crimping



 mm ²	p/n	W	L	E	Ø d	A	F	Ø i	Ø e	SNCF
185	AL185-10	34	130	6	10.3	25.5	110	21	27	
	AL185-12	34	130	6	12.8	25.5	110	21	27	
	AL185-14	34	130	6	14.5	25.5	110	21	27	
	AL185-16	34	130	6	16.5	25.5	110	21	27	
240	AL240-12	41	130	6.5	12.8	28	110	23	30	
	AL240-14	41	130	6.5	14.5	28	110	23	30	7-847-7355
	AL240-16	41	130	6.5	16.5	28	110	23	30	
	AL240-18	41	130	6.5	18.8	28	110	23	30	
	AL240-20	41	130	6.5	21	28	110	23	30	
260	AL260-14	38.5	114	6.5	14.5	29	94	25.5	32	
	AL260-16	38.5	114	6.5	16.5	29	94	25.5	32	
	AL260-18	38.5	114	6.5	18.8	29	94	25.5	32	
300	AL300-14	46	136	8.8	14.5	30	113	27	34.6	
	AL300-16	46	136	8.8	16.5	30	113	27	34.6	
	AL300-18	46	136	8.8	18.8	30	113	27	34.6	
	AL300-20	46	136	8.8	21	30	113	27	34.6	
460	AL460-16	52	150	10	16.5	35	125	32.5	42	
	AL460-18	52	150	10	18.8	35	125	32.5	42	
	AL460-20	52	150	10	21	35	125	32.5	42	
	AL460-22	52	150	10	23	35	125	32.5	42	
	AL460-24	52	150	10	25	35	125	32.5	42	

Shunt manufacturing on request or drawing
(insulated or non-insulated cables, braids)
with or without insulation crimping.



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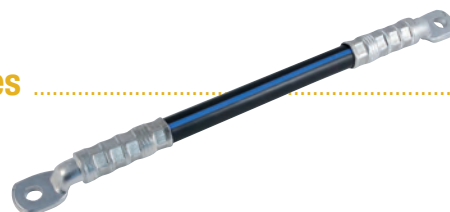
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38

Forged lugs for insulated aluminium cables





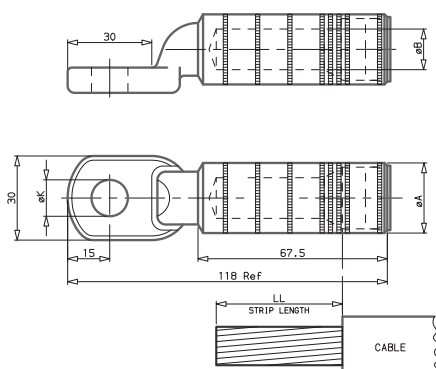
Forged lugs for insulated aluminium cables

General features

- ✓ Material : Aluminium 99.5%
- ✓ Tin-plated : 15 µm
- ✓ Crimping position
- ✓ Short cut current :
 - * 75 mm² = 25 KA ms
 - * 110 mm² = 40 KA 100 ms
- ✓ Tightening torque tested to 80 Nm which guarantee a perfect installation same with high vibration level

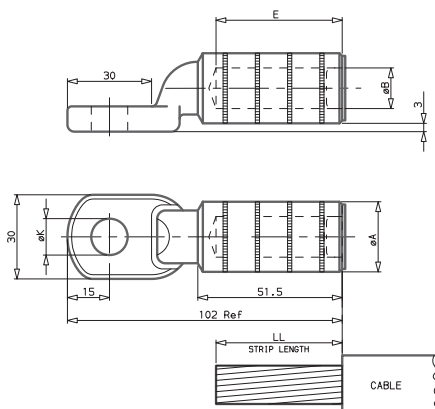
DEUTSCHE BANN APPROVED

Long barrel terminal for rail connection with wire and insulation crimping



 mm ²	 p/n	Ø K	Ø A	Ø B	 Ø mm	Type of cables	Die
110/100	Y4CA110A22M12HTN15	13	25	14.5	22	(N)AYY-0 1x110 RM 0.6/1KV ALMG	U215BGE5T (3 crimps) with 60 KN tool
	Y4CA110A22M16HTN15	17	25	14.5	22	(N)A(ST)YY-0 1x110 RM 0.6/1KV ALMGST (N)A(ST)YY-0 1x100 RM 0.6/1KV ALMGST	
75	Y4CA075A22M12HTN15	13	25	12	20	(N)A(ST)YY-0 1x75 RM 0.6/1KV ALMGST	
	Y4CA075A22M16HTN15	17	25	12	20		

Short barrel terminal for noise protection wall grounding



 mm ²	 p/n	Ø K	Ø A	Ø B	 Ø mm	Type of cables	Die
110/100	Y4CA110A22M12TN15	13	25	14.5		(N)AYY-0 1x110 RM 0.6/1KV ALMG	U215BGE5T (3 crimps) with 60 KN tool
	Y4CA110A22M16TN15	17	25	14.5		(N)A(ST)YY-0 1x110 RM 0.6/1KV ALMGST (N)A(ST)YY-0 1x100 RM 0.6/1KV ALMGST	
75	Y4CA075A22M12TN15	13	25	12		(N)A(ST)YY-0 1x75 RM 0.6/1KV ALMGST	
	Y4CA075A22M16TN15	17	25	12			



Cross section
(mm²)



Insulation Ø
(mm)

Unless otherwise stated,
all dimensions are in millimeters

Signalling and stationary equipment products

40 Preinsulated terminals



42 Preinsulated terminals, blade and pins



43 Preinsulated butt connectors with inspection window



44 Copper tubular lugs and butt connectors

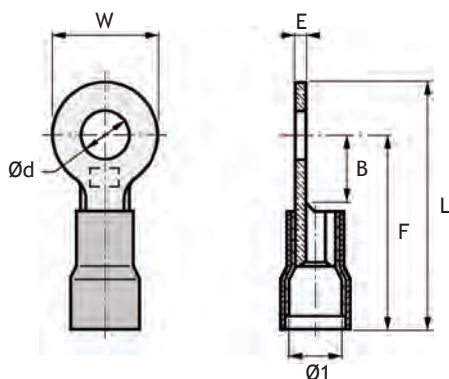




Preinsulated ring terminals

General features

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ SNCF drawing : 10-5050-309
- ✓ RATP drawing : MR-3-52964



 mm ²	 p/n	 SNCF	W	L	E	Ø d	F	B	Ø 1	 SNCF	
0.34 - 1.5 ●	51143-2	7-847-4839	5.6	17.3	0.8	3.2	14.5	3.5	3.6	0-0391-6840	TH1S
	51154-2	7-847-5028	8	21	0.8	4.2	17	6	3.6		
	51155-2	7-847-1112	8	21	0.8	5.2	17	6	3.6		
	51136-2	7-847-4251	12.5	27	0.8	6.3	20.7	6.5	3.6		
0.34 - 1.5 ○	51143-2BC	7-847-5369	5.6	17.3	0.8	3.2	14.5	3.5	3.6	0-0391-6840	TH1S
	51154-2BC	7-847-5368	8	21	0.8	4.2	17	6	3.6		
	51135-2BC	7-847-4984	12.5	27	0.8	5.2	20.7	6.5	3.6		
	51136-2BC	7-847-5367	12.5	27	0.8	6.3	20.7	6.5	3.6		
1 - 2.5 ●	51183-2	7-847-5237	8.6	21	0.8	3.2	16.7	6	4.8	7-847-7141	TH2S
	51184-2	7-847-5532	8.6	21	0.8	4.2	16.7	6	4.8		
	51185-2	7-847-5483	8.6	21	0.8	5.2	16.7	6	4.8		
	51176-2	7-847-5484	12.5	27	0.8	6.3	20.7	6	4.8		
	51178-2	7-847-4678	12.5	27	0.8	8.4	20.7	6	4.8		
2.6 - 6 ●	STC 1-4-2JN	7-847-5389	9.6	29.5	1	4.2	24.7	7	8.8	0-391-6837	TH3-2
	STC 1-5-2JN	7-847-4679	9.6	29.5	1	5.2	24.7	7	8.8		
	STC 1-6-2JN	7-847-4216	9.6	29.5	1	6.3	24.7	7	8.8		
	STC 2-8-2JN	7-847-4363	13.8	35	1	8.4	28.1	8	8.8		
	STC 2-10-2JN	7-847-5390	13.8	35	1	10.3	28.1	8	8.8		
	STC 2-12-2JN	7-847-4886	19	42	1	12.8	32.5	14	8.8		



Cross section
(mm²)



SNCF code



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters

Preinsulated fork terminals preinsulated tubular lugs



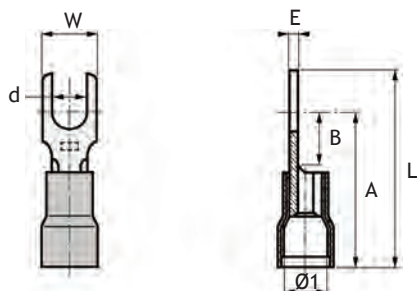
General features

Preinsulated fork terminals

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ According to NFF 00363
- ✓ SNCF drawing : VZA 17692/000002

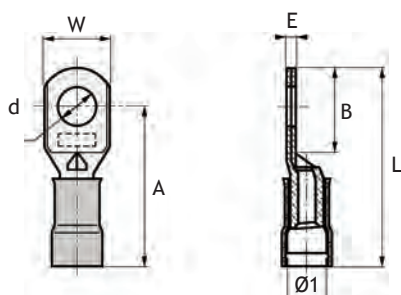
Preinsulated tubular lugs

- ✓ Material : tin-plated copper
- ✓ Insulation according to EN 45545
- ✓ According to NFF 00363
- ✓ SNCF drawing : VZA 17692/00



Preinsulated fork terminals

	 mm ²	p/n	SNCF	W	L	E	Ø d	A	B	Ø 1	SNCF	
0.34 - 1.5 ●	STRGFA1-3-2	7-847-5750	5.5	20	0.8	3.2	16.3	6	3.6		0-391-6840	TH1S
	STRGFA2-4-2	7-847-5006	8	20	0.8	4.2	16.4	6	3.6			
	STRGFA2-5-2	7-847-5007	8	20	0.8	5.3	16.4	6	3.6			
0.34 - 1.5 ○	STRGFA2-4-2BC	7-847-5005	8	20	0.8	4.2	16.4	6	3.6		0-391-6840	TH1S
1 - 2.5 ●	STRGFB1-3-2	7-847-4682	7.9	20.5	0.8	3.2	16.5	6	4.8		7-847-7141	TH2S
	STRGFB1-4-2	7-847-4683	7.9	20.5	0.8	4.2	16.5	6	4.8			
	STRGFB2-5-2	7-847-4684	9.5	23	0.8	5.3	18.8	8	4.8			
2.6 - 6 ●	STRGFC1-4-2JN	7-847-5391	9.5	29	1	4.2	24.2	4.5	8.8		0-391-6837	TH3-2
	STRGFC1-5-2JN	7-847-5392	9.5	29	1	5.2	24.2	4.5	8.8			
	STRGFC1-6-2JN	7-847-5119	9.5	29	1	6.2	24.2	4.5	8.8			



Preinsulated tubular lugs

	 mm ²	p/n	SNCF	W	L	E	Ø d	A	B	Ø 1	SNCF	
1 - 3.18 ●	51193R-2NR	7-847-5366	8.1	34	2.2	3.2	27.8	7.4	8.8		0-391-6837	TH3-2
	51194R-2NR	7-847-5365	8.1	34	2.2	4.2	27.8	7.4	8.8			
	51195R-2NR	7-847-5363	8.1	34	2.2	5.2	27.8	7.4	8.8			
	51196-2NR	7-847-5362	10.6	34	1.6	6.4	27.8	7.4	8.8			
	51198-2NR	7-847-5364	11.6	34	1	8.4	27.8	7.4	8.8			
7.40 ●	C4P60-2G	7-847-5361	10.6	34	1.2	6.4	25.8	7.4	8.8		0-391-6837	TH3-2
	C4P80-2G	7-847-5661	11.6	34	1.2	8.4	22.8	7.4	8.8			



Cross section
(mm²)



SNCF code



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters



Preinsulated disconnects 2.8 - 5 - 6.35 mm

Preinsulated blade and pins terminals

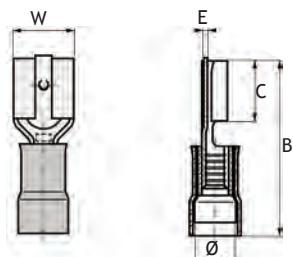
General features

Preinsulated disconnects 2.8 - 5 - 6 - 35 mm

- ✓ Material : tin plated phosphorous bronze
- ✓ Insulation according to EN 45545
- ✓ According to NFF 00363
- ✓ SNCF drawing : VZA 17692/000001

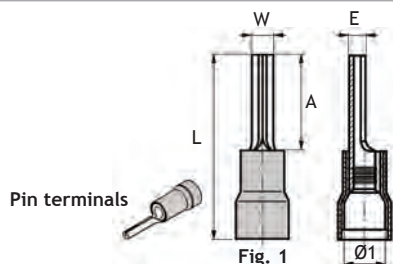
Preinsulated blade and pins terminals

- ✓ Material : tin -plated copper
- ✓ Insulation according to EN 45545
- ✓ SNCF drawing : VZA 17692/000003



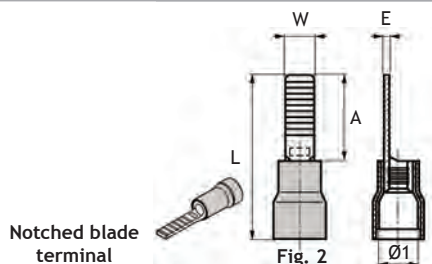
Preinsulated disconnects 2.8 - 5 - 6 - 35 mm

		p/n	SNCF			W	B	C	E	Ø	SNCF	
	mm ²											
0.34 - 1.5	●	51027	7-847-1902	Gold	2.8 x 0.5	3.8	19.5	6.5	0.25	3.6	0-391-6844	TH1-90
		51081-2	7-847-4728	Tin	5 x 0.8	6.4	21	7.7	0.5	3.6	0-391-6840	TH1S
		51181-2	7-847-4700	Tin	6.35 x 0.8	7.7	21	7.7	0.5	3.6		
0.34 - 1.5	○	51328	7-847-1900	Gold	2.8 x 0.3	3.8	19.5	6.5	0.25	3.6	0-391-6844	TH1-90
		51028	7-847-1901	Gold	2.8 x 0.5	3.8	19.5	6.5	0.25	3.6		
1 - 2.5	●	51131-2	7-847-4999	Tin	5 x 0.8	7.7	21	7.7	0.5	4.8	7-847-7141	TH2-S
		51231-2	7-847-4797	Tin	6.35 x 0.8	7.7	20.2	7.7	0.5	4.8	7-847-7141	TH1-S
1 - 3.18	●	51261-2NR	7-847-6798	Tin	6.35 x 0.8	7.7	27.5	7.7	0.5	8.8	0-391-6837	TH3-2



Pin terminals

Fig. 1



Notched blade terminal

Fig. 2

Preinsulated blade and pins terminals

		p/n	SNCF		W	A	L	Ø1	E	SNCF	
	mm ²										
0.34 - 1.5	●	51220-2	7-847-5051	Fig. 1	1.9	10	22.5	3.6	1.9	0-391-6840	TH1S
		51225-2	7-847-5556	Fig. 2	2.9	10.2	21	3.6	0.8	0-391-6840	TH1S*
0.34 - 1.5	○	51220-2 BC	7-847-5359	Fig. 1	1.9	10	22.5	3.6	1.9	0-391-6840	TH1S
		51225-2 BC	7-847-5890	Fig. 2	2.9	10.2	21	3.6	0.8	0-391-6840	TH1S*
1 - 2.5	●	51222-2	7-847-5002	Fig. 1	1.8	10	22	4.8	1.8	7-847-7141	TH2S
		51226-2	7-847-5555	Fig. 2	3.9	11.5	22	4.8	0.8		
1 - 3.18	●	53226-2 R	7-847-6038	Fig. 2	3.9	14	30	8.8	0.9	0-391-6837	TH3-2
1 - 3.18	●	53226-2 NR	7-847-6037	Fig. 2	3.9	14	30	8.8	0.9	0-391-6837	TH3-2
2.6 - 6	●	51223-2 JN	7-847-5393	Fig. 1	2.5	12	28	8.8	2.5	0-391-6837	TH3-2
		51227-2 JN	7-847-5370	Fig. 2	3.9	12	30.5	8.8	1.0		
7.40	●	51227-2G	7-847-6352	Fig. 2	3.9	16	32	8.8	1.2	0-391-6837	TH3-2

For on edge crimping, use TH1-90 tool.



Cross section (mm²)



SNCF code



Crimping tool



Languettes



Coating

Unless otherwise stated, all dimensions are in millimeters

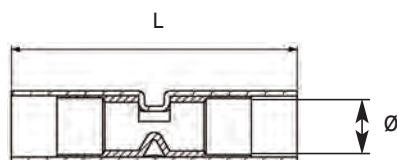
Preinsulated butt connectors with inspection window



General features

Preinsulated butt connectors with inspection window

- ✓ Material : tin-plated copper
- ✓ Insulation according EN 45545
- ✓ According to NFF 00363
- ✓ SNCF drawing : VZA 17692/000004



 mm ²	 p/n	 SNCF	L	Ø	 SNCF	
0.34 - 1.5 ●	51391	7-847-4323	32	3.6	0-391-6840	TH1S
1 - 2.5 ●	51402	7-847-4344	32	4	7-847-7141	TH2S
2.6 - 6 ●	51413	7-847-4120	41.5	5.5	0-391-6837	TH3-2



Cross section
(mm²)



SNCF code



Crimping tool

Unless otherwise stated,
all dimensions are in millimeters



Copper tubular lugs and butt connectors

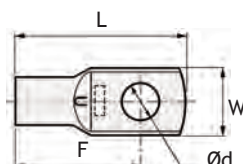
General features

Copper tubular lugs

- ✓ Material : tin-plated copper
- ✓ According to NFF 00363
- ✓ SNCF drawing : VZA 17692/000006

Copper butt connectors

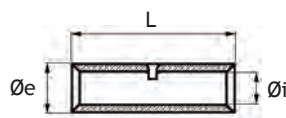
- ✓ Material : tin-plated copper
- ✓ SNCF drawing VZA 17692/000005



Copper tubular lugs

 mm ²	p/n	SNCF	W	L	Ø d	F	SNCF code Tools
6.6 - 10	ELS40	7-847-7211	14	34	4.2	26	0-391-6832 ou 0-391-6850 + 0-391-6851
	ELS50	7-847-7212	14	34	5.2	26	
	ELS60	7-847-7213	14	34	6.4	26	
	ELS80	7-847-7214	14	34	8.3	26	
	ELS100	7-847-7215	16.5	36	10.3	28	
	ELS120	7-847-7216	16.5	36	12.8	28	
16	FLS60	7-847-7217	15	37	6.4	29	0-391-6832 ou 0-391-6850 + 0-391-6852
	FLS80	7-847-7218	15	37	8.3	29	
	FLS100	7-847-7219	17	38	10.3	30	
	FLS120	7-847-7220	17	38	12.8	30	
25	TN25-5	7-847-5853	14.3	45	5.2	35	0-391-6832 ou 0-391-6850 + 0-391-6853
	TN25-6	7-847-5854	14.3	45	6.4	35	
	TN25-8	7-847-5855	14.3	45	8.3	35	
	TN25-10	7-847-4147	17	45	10.3	35	
	TN25-12	7-847-7221	17	45	12.8	35	
35	TN35-6	7-847-7222	18	50	6.4	39	0-391-6832 ou 0-391-6850 + 0-391-6851
	TN35-8	7-847-7223	18	50	8.3	39	
	TN35-10	7-847-7224	18	50	10.3	39	
	TN35-12	7-847-7225	18	50	12.8	39	
50	TN50-6	7-847-5860	19	58	6.4	46	0-391-6850 + 0-391-6852
	TN50-8	7-847-5861	19	58	8.3	46	
	TN50-10	7-847-5862	19	58	10.3	46	
	TN50-12	7-847-5863	19	58	12.8	46	
70	TN70-8	7-847-5864	22	66	8.3	51	0-391-6850 + 0-391-6853
	TN70-10	7-847-5865	22	66	10.3	51	
	TN70-12	7-847-5866	22	66	12.8	51	

Copper butt connectors



 mm ²	p/n	SNCF	L	Ø i	Ø e	SNCF code Tools
0.3 - 1.5	MJ1,5	7-847-4598	14.5	1.7	3.2	7-931-0114
1 - 2.5	MJ2,5	7-847-5358	14.5	2.2	3.9	7-931-0114
2.6 - 6	MJ3S	7-847-5357	14.5	3.2	4.9	7-931-0114
6.6 - 10	MJ10SH	7-847-7200	30	4.7	8	0-391-6832 ou 0-391-6850 + 0-391-6851
16	MJ16SH	7-847-7201	35	5.6	9	0-391-6832 ou 0-391-6850 + 0-391-6852
25	MJ25SH	7-847-7202	35	7.4	10.4	0-391-6832 ou 0-391-6850 + 0-391-6853
35	MJ35SH	7-847-7203	35	8.6	11.9	0-391-6832 ou 0-391-6850 + 0-391-6851
50	MJ50SH	7-847-7204	45	10.4	13.9	0-391-6850 + 0-391-6852
70	MJ70SH	7-847-7205	50	12.1	15.9	0-391-6850 + 0-391-6853



Cross section
(mm²)



SNCF code

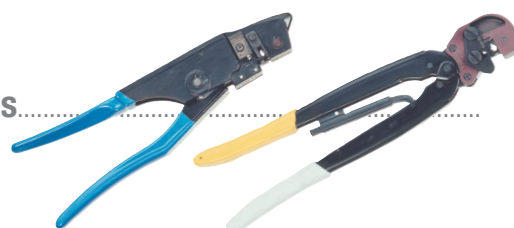
Unless otherwise stated,
all dimensions are in millimeters



Tooling

46 Selection table

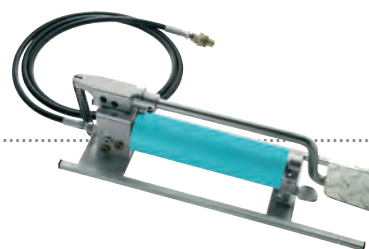
48 Crimping tools for preinsulated terminals



51 Crimping tools for copper tubular lugs and butt connectors



57 Hydraulic pumps and sets



61 Cutting pliers, plug in plier, plug out plier and cable-cutters





Selection table

Hand crimping tools and pneumatic crimping tool



Hand crimping tools

Hand crimping tools

Pneumatic crimping tool

TH1-TH1S

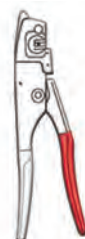
TH1-90

TH2-TH2S

TH3

TH3-2

AT 200
AT33...



Preinsulated terminals

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Preinsulated terminals, disconnects, pins and butt connectors with inspection window



0.34 to
1.5 mm²

1 to 2.5
mm²

0.34 to 6
mm²

Gilded disconnects 2.8 mm and blade terminals (on edge crimping)



0.34 to 1.5
mm²

Terminals 51190+ series and white disconnects (max. insulating Ø : 6.8 mm)



1 to 2.5
mm²

1 to 2.5
mm²

Terminals C3P+ series and yellow disconnects (max. insulating Ø : 6.8 mm)



2.6 to 6
mm²

2.6 to 6
mm²

Terminals 51190+ series and black disconnects (max. insulating Ø : 8.8 mm)



1 to 2.5
mm²

1 to 2.5
mm²

Terminals C3P+ series, pins and disconnects yellow striped black (max. insulating Ø : 8.8 mm)



2.6 to 6
mm²

2.6 to 6
mm²

Selection table

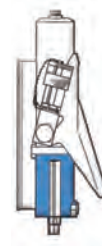
Mechanical, hydraulic, electro-hydraulic
and hydraulic sets



Hydraulic pumps and sets 700 bars

Hydraulic sets

P39 K SPM 4095K PA 133 K SPT 20-586 KCM



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Hydraulic compression heads

Mechanical tools

Hydraulic and electro-hydraulic tools

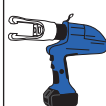
PMM1CF



ESD50



ESU137



TR1461



TR1462



SU130K



VF130K



SU210K



VF210K



Tubular lugs and connectors

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Medium power preinsulated
copper tubular lugs
ELP-FLP - NP series



10 to 25
mm²

10 to 25
mm²

10 to 25
mm²

Copper tubular lugs
ELS 6 FLS - TN series



10 to 70
mm²

10 to 70
mm²

10 to 240
mm²

10 to 70
mm²

10 to 95
mm²

10 to 150
mm²

10 to 150
mm²

10 to 300
mm²

10 to 300
mm²

Copper tubular lugs
TR series



95 to 500
mm²

95 to 500
mm²

Copper tubular lugs
TRS series



95 to 120
mm²

95 to 120
mm²

95 to 400
mm²

95 to 400
mm²

Aluminium tubular lugs
AL series



50 to 95
mm²

50 to 95
mm²

50 to 460
mm²

50 to 460
mm²



Tooling

for preinsulated products

Hand crimping tools for preinsulated terminals, disconnects, pins, blades and butt connectors

Hand crimping tool for preinsulated products



0.34 to 1.5 mm²

- ✓ Crimping of red preinsulated terminals, disconnects, pins, blades and window butt connectors from 0.34 to 1.5 mm²
- ✓ Aluminium body
- ✓ Exceptional low gearing
- ✓ High quality crimping by linear movement of dies
- ✓ Adjustable crimping of cable insulation by eccentric
- ✓ Safety ratchet.
- ✓ Positioner stopper
- ✓ Crimping dies identification reference mark : 1 dash

Delivered in individual box with control and instruction leaflet

- ✓ Length : 290 mm.
- ✓ Weight : 0.490 Kg

TH 1 : delivered with stopper HD20 for terminals, disconnects and pins.

p/n TH1

SNCF 7-847-7140



TH 1 S : delivered with stopper HF20 for terminals, disconnects, pins and butt connectors

p/n TH1S

SNCF 0-391-6840

Complementary accessory :

- ✓ PG1 : go-no go gauge.

Hand tool for crimping on edge of preinsulated disconnects and blades



0.34 to 1.5 mm²

- ✓ Crimping on edge of 2.8 preinsulated disconnects and blade from 0.34 to 1.5 mm²
- ✓ Aluminium body
- ✓ Exceptional low gearing
- ✓ High quality crimping by linear movement of dies
- ✓ Adjustable crimping of cable insulation by eccentric
- ✓ Safety ratchet
- ✓ Positioner stopper
- ✓ Crimping dies identification reference mark : 1 dash

Delivered in individual box with control and instruction leaflet

- ✓ Length : 290 mm
- ✓ Weight : 0.490 Kg
- ✓ Delivered with stopper HD28-90

p/n TH1-90

SNCF 0-391-6844



Complementary accessory :

- ✓ PG1 : go-no go gauge



Hand crimping tool for preinsulated products

1 to 2.5 mm²

- ✓ Crimping of blue perinsulated terminals, disconnects, pins, blades and window butt connectors from 1.0 to 2.5 mm²
- ✓ Aluminium body
- ✓ Exceptional low gearing
- ✓ High quality crimping by linear movement of dies
- ✓ Adjustable crimping of cable insulation by eccentric
- ✓ Safety ratchet
- ✓ Positioner stopper
- ✓ Crimping dies identification reference mark : 2 dashes

Delivered in individual box with control and instruction leaflet

- ✓ Length : 290 mm
- ✓ Weight : 0.490 Kg

TH 2 : delivered with stopper HF20 for terminals, disconnects, pins and blade terminals

p/n TH2 **SNCF** 7-847-7141

TH 2 S : delivered with stopper HF20 for terminals, disconnects, pins and butt connectors

p/n TH2S **SNCF** 7-847-7141



Complementary accessory :

- ✓ PG 2 : go-no go gauge

Hand crimping tool for preinsulated products

1 to 6 mm²

- ✓ Strong and practical steel tools
- ✓ High quality crimping by linear movement of dies
- ✓ Adjustable crimping of cable insulation by a pin
- ✓ Safety ratchet
- ✓ Positioner stopper ATH23
- ✓ Crimping dies identification reference mark : 3 dots

Delivered in individual box with control and instruction leaflet

- ✓ Length : 290 mm - Weight : 0.905 Kg.
- ✓ Handles colour : TH3 = 1 yellow and one white - TH3-2 : one yellow and one black

TH3 : max. insulating diameter : 6.8 mm

- ✓ Crimping of white terminals 51190 series and disconnects from 1 to 2.5 mm²
- ✓ Crimping of yellow terminals C3P series and disconnects from 2.6 to 6 mm²

p/n TH3 **SNCF** 7-847-7142

TH3 : max. insulating diameter : 8.8 mm

- ✓ Crimping of black terminals 51190 series and disconnects from 1 to 2.5 mm²
- ✓ Crimping of yellow black stripped terminals C3P series and disconnects from 2.6 to 6 mm²

p/n TH3-2 **SNCF** 7-847-7143 ou 0-391-6837



Complementary accessory :

- ✓ PGH3 : go-no go gauge



Pneumatic Crimping tool

for preinsulated terminals, disconnects pins and blades

Pneumatic crimping tool for preinsulated products

0.34 to 6 mm²

- ✓ Accurated and powerful crimping for preinsulated terminals, disconnects, pins and blades from 0.34 to 6 mm²
- ✓ High quality crimping by linear movement of dies
- ✓ Length : 320 mm
- ✓ Weight 1.5 Kg

Delivered with working instructions and hose for compressed air.



Pneumatic set = 1 cylinder + 1 crimping head

- ✓ One pneumatic cylinder

p/n AT201

- ✓ Crimping head for red insulated products from 0.34 to 1.5 mm².

p/n AT331

- ✓ Crimping head for blue insulated products from 1.0 to 2.5 mm²

p/n AT332

Crimping head for:

- ✓ for yellow 51190 series terminals from 1.0 to 2.5 mm²
- ✓ for white C3P series terminals from 2.6 to 6 mm²
- ✓ Max; insulating diameter 6.8 mm

p/n AT333

Crimping head for:

- ✓ for black 51190 series terminals from 1.0 to 2.5 mm²
- ✓ for yellow insulating black stripped C3P series terminals from 2.6 to 6 mm²
- ✓ Max. insulating diameter 8.8 mm

p/n AT333-2

Complementary accessories :

- ✓ Go - no go gauge for AT331

p/n PG1

- ✓ Go - no go gauge for AT332

p/n PG2

- ✓ Go - no go gauge for AT333 and AT333-2

p/n PGH3

- ✓ Specific stopper for thin insulation wire

p/n ATBK30 ((terminals crimping)

p/n ATBK21-2,8/ATBK21-5/ATBK21-6,35 (disonnects crimping)

- ✓ Standard stopper.

p/n ATB30 (AT 331 & AT 332)

p/n ATB33 (AT 331 & AT 332)

- ✓ Set for fixed-place work with foot control

p/n ATBA

Mechanical crimping tool

for non insulated lugs and splices

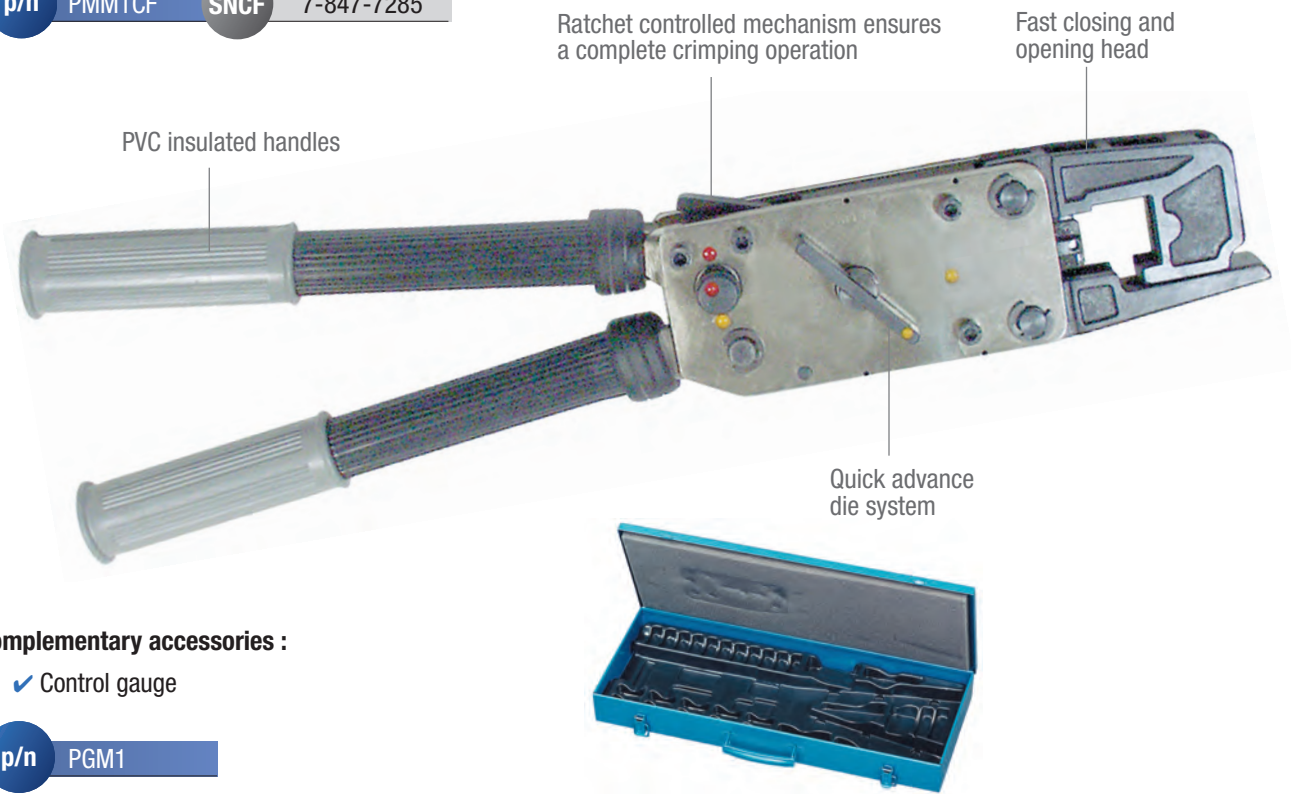


PMM1CF hand crimping tool

POWER 50 kN

- ✓ Hand crimping tool with reversible dies
 - ✓ Length : 420 mm
 - ✓ Weight : 2 Kg
- Delivered in metal boxe with working leaflet.*

p/n PMM1CF SNCF 7-847-7285



Crimping dies

Dies	mm ²	Terminals series	p/n	SNCF
	10	ELS	H1-10-35F	7.847.7286
	16	FLS	H1-16-50F	7.847.7287
	25	TN25	H1-25-70F	7.847.7288
	35	TN35	H1-10-35F	7.847.7286
	50	TN50	H1-16-50F	7.847.7287
	70	TN70	H1-25-70F	7.847.7288

Note :
in yellow: side of die to be used.



Cross section
(mm²)



SNCF code

Unless otherwise stated,
all dimensions are in millimeters



50 kN Cordless Electro-hydraulic Compression Tool

to Crimp Tubular Lugs, Splices and other Connectors

ESD50 electro-hydraulic compression tool

POWER 50 kN

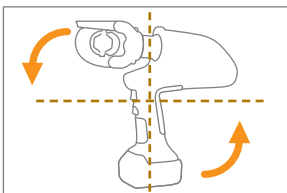
- ✓ Output force: 50 kN
- ✓ Stroke: 13 mm
- ✓ Autonomy: 200 to 500 crimping operations with battery 4.0 Ah
- ✓ Cycle time: 2 to 4 s depending on the section
- ✓ Dimensions: 350 x 310 x 72 mm
- ✓ Weight: 4.0 kg (including the battery)

New features:

- ✓ Electronic control of the cycle
- ✓ Return programming according to the user, either automatic or manual
- ✓ Automatic or manual return stroke
- ✓ Automatic stop at the end of the cycle
- ✓ 2-stage hydraulic pump with pilot-operated valve which increases efficiency between 20 and 40%
- ✓ Return sound signal
- ✓ New PC software for diagnosis and analysis of data



THE TOOL POWER 2



Optimum ergonomics thanks to the balance of the tool. Can be used by right or left-handed people.



Comfortable and accurate handling thanks to the shape and the materials used in the handle.



Electronic controlled function parameters, warning lights and USB interface.



Service indicator lights informing about the battery charge level and service control if necessary.



180° swiveling nickel-plated head.



Easy head opening.



With this software, it is possible to configure the tool, record the crimping data and analyze the cycles already done.



Lithium-ion 18 V battery with increased life expectancy and without any memory effect.

50 kN Cordless Electro-hydraulic Compression Tool

to Crimp Tubular Lugs, Splices and other Connectors



ESD50 electro-hydraulic compression tool kit

Kit composition

- ✓ Crimping tool
- ✓ 2 batteries 18 V / 4 Ah
- ✓ Charger 220 V
- ✓ Metallic carry case

PN : ESD50
PN : BL1840
PN : CLM1890HC
PN : CMESD50

p/n ESD50K1BLCM

Metallic carry case

- ✓ Ideal for transport and storage.
- ✓ Adapted to each model.

p/n CMESD50

Additional equipment for ESD50:

Fast charger

Charger with display which identifies the state of the battery and the conditions of load.

- ✓ Charging time: 36 min
- ✓ Weight: 0.85 Kg
- ✓ Voltage: 220-240 V AC
- ✓ Plug: Standard EU, others on request



p/n CLM1890HC



Battery

Li-Ion technology without memory effect.

- ✓ Voltage: 18 V
- ✓ Capacity: 4.0 Ah
- ✓ Weight: 0.64 Kg



p/n BL1840

Crimping dies

Dies	mm ²	Terminals series	p/n	SNCF
	10	ELS	H1-10-35F	7.847.7286
	16	FLS	H1-16-50F	7.847.7287
	25	TN25	H1-25-70F	7.847.7288
	35	TN35	H1-10-35F	7.847.7286
	50	TN50	H1-16-50F	7.847.7287
	70	TN70	H1-25-70F	7.847.7288

Note :
in yellow: side of die to be used.



120 kN Cordless Electro-hydraulic Compression Tool

to Crimp Tubular Lugs, Al/Cu Lugs, Splices and other Connectors

ESU137 electro-hydraulic compression tool

POWER 120 KN

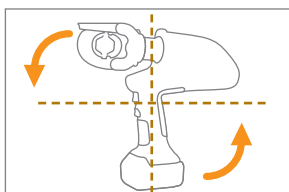
- ✓ Output force: 120 kN
- ✓ Stroke: 27 mm
- ✓ Autonomy: - 50 to 100 indent crimping operations with battery 4.0 Ah
- 100 to 220 crimping operations with battery 4.0 Ah
- ✓ Cycle time: 7 to 12 s depending on the section
- ✓ Dimensions: 400 x 310 x 72 mm
- ✓ Weight: 5.9 kg (including the battery)

New features:

- ✓ Electronic control of the cycle
- ✓ Return programming according to the user, either automatic or manual
- ✓ Automatic or manual return stroke
- ✓ Automatic stop at the end of the cycle
- ✓ 2-stage hydraulic pump with pilot-operated valve which increases efficiency between 20 and 40%
- ✓ Return sound signal
- ✓ New PC software for diagnosis and analysis of data



THE TOOL POWER 2



Optimum ergonomics thanks to the balance of the tool. Can be used by right or left-handed people.



Comfortable and accurate handling thanks to the shape and the materials used in the handle.



Electronic controlled function parameters, warning lights and USB interface.



Service indicator lights informing about the battery charge level and service control if necessary.



180° swiveling nickel-plated head



With this software, it is possible to configure the tool, record the crimping data and analyze the cycles already done.



Lithium-ion 18 V battery with increased life expectancy and without any memory effect.

120 kN Cordless Electro-hydraulic Compression Tool

to Crimp Tubular Lugs, Al/Cu Lugs, Splices and other Connectors



ESU137 electro-hydraulic compression tool kit

Kit composition

- ✓ Crimping tool
- ✓ 2 batteries 18 V / 4 Ah
- ✓ Charger 220 V
- ✓ Metallic carry case (Space 22 sets C12)

PN : ESU137
PN : BL1840
PN : CLM1890HC
PN : CMESU137

p/n ESU137K1BLCM

Additional equipment for ESU137:

Fast charger

Charger with display which identifies the state of the battery and the conditions of load.

- ✓ Charging time: 36 min
- ✓ Weight: 0.85 Kg
- ✓ Voltage: 220-240 V AC
- ✓ Plug: Standard EU, others on request



p/n CLM1890HC

Battery

Li-Ion technology without memory effect.

- ✓ Voltage: 18 V
- ✓ Capacity: 4.0 Ah
- ✓ Weight: 0.64 Kg



p/n BL1840

Metallic carry case

- ✓ Ideal for transport and storage.
- ✓ Adapted to each model.

p/n CMESU137



Crimping dies:

Dies	mm ²	Terminals series	Dies	Adapters
 	10	preinsulated ELP series	ELP460	U137-460
	16	preinsulated FLP series	FLP460	U137-460
	25	preinsulated NP series	NP460	U137-160
	10	non insulated ELS series	ELS460 or C12 ELS	U137-460 or U137C12
	16	non insulated FLS series	FLS460 or C12 FLS	U137-460 or U137C12
	25	non insulated TN 25 series	C12TN25	U137C12
	35	non insulated TN35 series	C12TN35	U137C12
	50	non insulated TN 50 series	C12TN50	U137C12
	70	non insulated TN70 series	C12TN70	U137C12
	95	non insulated TN95 series	C12TN95	U137C12
	120	non insulated TN120 series	C12TN120	U137C12
	150	non insulated TN150 series	C12TN150	U137C12
	185	non insulated TN185 series	C12TN185	U137C12
	240	non insulated TN240 series	C12TN240	U137C12

Cross section
(mm²)

Unless otherwise stated,
all dimensions are in millimeters



Hydraulic hand crimping tool and connectable hydraulic compression heads for terminals

Hand crimping tool

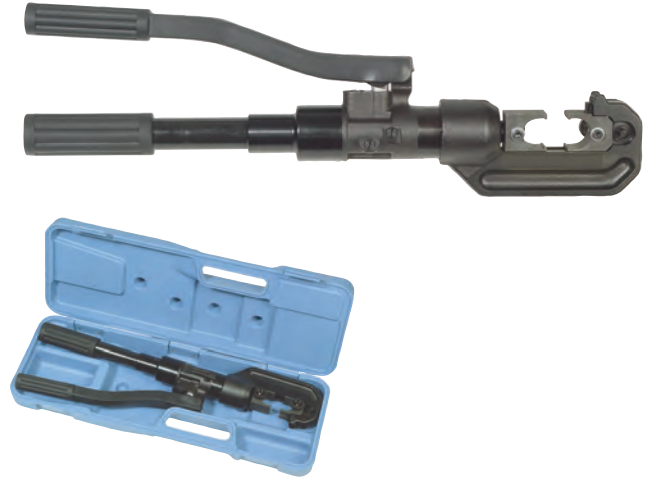
10 to 70 mm²

- ✓ Hand crimping tool
- ✓ Power : 54 KN
- ✓ Crimping from 10 to 70 mm²
- ✓ Two pressure level
- ✓ Automatic release
- ✓ Die lock system
- ✓ Head tilting on 180°

Delivered in box with working leaflet

p/n TR1461

SNCF 7-847-7296



Connectable hydraulic compression head

10 to 95 mm²

- ✓ Connectable hydraulic compression head
- ✓ Power : 100 KN
- ✓ Crimping from 10 to 95 mm²
- ✓ anti-corrosion coating (nickel)
- ✓ Die locking system
- ✓ To be connected to 700 bars hydraulic pump or sets (see page : 59)
- ✓ Delivered with female semi-coupler p/n : RKFM38NPT

p/n TR1462



Crimping dies

Dies	mm ²	Terminals series	p/n	SNCF
	10	preinsulated ELP series	ELP460	7.847.7303
	16	preinsulated FLP series	FLP460	7.847.7304
	25	preinsulated NP series	NP460	7.847.7305
	10	non insulated ELS series	ELS460	7.847.7297
	16	non insulated FLS series	FLS460	7.847.7298
	25	non insulated TN 25 series	TN25-460	7.847.7299
	35	non insulated TN35 series	TN35-460	7.847.7300
	50	non insulated TN 50 series	TN50-460	7.847.7301
	70	non insulated TN70 series	TN70-460	7.847.7302
	95*	non insulated TN95 series	TN95-460	

* only with TR1462 tool.

Connectable hydraulic compression head for non insulated terminals



Connectable hydraulic compression head SU130K

POWER 130 kN

- ✓ To be connected to 700 bars hydraulic pump or sets (see page : 59)
- ✓ Crimping of non insulated terminals from 10 to 150 mm²
- ✓ Anti-corrosion coating (nickel)
- ✓ Length : 215 mm
- ✓ Weight : 3.200 kg

p/n SU130K



Connectable hydraulic compression head VF130K with closed head

POWER 130 kN

- ✓ To be connected to 700 bars hydraulic pump or sets (see page : 59)
- ✓ Crimping of non insulated terminals from 10 to 150 mm²
- ✓ Anti-corrosion coating (nickel)
- ✓ Length : 220 mm
- ✓ Weight : 3.400 kg

p/n VF130K



Crimping dies

Dies	mm ²	Terminals series	p/n
	For ELS / FLS series		
	10	ELS	ELSV13
	16	FLS	FLSV13
	For TN series		
	25	TN25	TN25V13
	35	TN35	TN35V13
	50	TN50	TN50V13
	70	TN70	TN70V13
	95	TN95	TN95V13
	120	TN120	TN120V13
	150	TN150	TN150V13
	For TRS series		
	95	TRS95	TRS95V13
	120	TRS446	TRS446V13
	120	TRS448	TRS448V13
	For AL series		
	50	AL50	AL50V13
	60	AL60	AL60V13
	70	AL70	AL70V13
	95	AL95	AL95V13



Cross section
(mm²)



SNCF code

Unless otherwise stated,
all dimensions are in millimeters



Connectable hydraulic compression head for non insulated terminals

Connectable hydraulic compression head SU210K

POWER 200 kN

- ✓ To be connected to 700 bars hydraulic pump or sets (see page : 59)
- ✓ Anti-corrosion coating (nickel)
- ✓ Crimping of non insulated terminals from 10 to 150 mm²
- ✓ Length : 260 mm
- ✓ Weight : 5.800 Kg

Accessories

Die holder **S21**.



p/n SU210K

Connectable hydraulic compression head VF210K with closed head

POWER 200 kN

- ✓ To be connected to 700 bars hydraulic pump or sets (see page : 59)
- ✓ Anti-corrosion coating (nickel)
- ✓ Length : 275 mm
- ✓ Weight : 6.200 Kg

Accessories

Die holder **S21**.



p/n VF210K

Crimping dies:

Dies	mm ²	Terminals series	Dies p/n SU210K/VF210K + S21 die holder	mm ²	Terminals series	Dies p/n SU210K/VF210K + S21 die holder	mm ²	Terminals series	Dies p/n SU210K/VF210K + S21 die holder
	ELS/FLS series			TRS series			AL serie		
	10	ELS	ELSV20	95	TRS95	TRS95V20	50	AL50	AL50V20
	16	FLS	FLSV20	120	TRS446	TRS446V20	60	AL60	AL60V20
	TN serie			120	TRS448	TRS448V20	70	AL70	AL70V20
	25	TN25	TN25V20	150	TRS450	TRS450V20	95	AL95	AL95V20
	35	TN35	TN35V20	185	TRS452	TRS452V20	120	AL120	AL120V20
	50	TN50	TN50V20	240	TRS455	TRS455V20	150	AL150 - AL150B	AL150V20
	70	TN70	TN70V20	240	TRS453	TRS453V20			
	95	TN95	TN95V20	400	TRS456	TRS456V20	185	AL185	AL185V20
	120	TN120	TN120V20	185	TRS185 - TRS185-1B	TRS185V20	240	AL240	AL240V20
	150	TN150	TN150V20	240	TRS240 - TRS240-1B	TRS240V20	300	AL300	AL300V20
	185	TN185	TN185V20	240	TRS242-12	TRS258V20	460	AL460	AL460V20
	240	TN240	TN240V20	400	TRS400	TRS400V20			
	300	TN300	TN300V20			TRS262V20S (for wire crimping)			
	TR serie			50	TRS262	TRS262V20F (for insulation crimping)			
	95	TR95	TR95V20			TRS246SV20 (for wire crimping)			
	120	TR120	TR120V20		TRS246	TRS246FV20 (for insulation crimping)			
	150	TR150	TR150V20						
	185	TR185	TR185V20						
	240	TR240	TR240V20						
	300	TR300	TR300V20						
	400	TR400	TR400V20						
	500	TR500	TR500V20						

Cross section
(mm²)

SNCF code

Unless otherwise stated,
all dimensions are in millimeters



P39 hydraulic pump

- ✓ Length : 400 mm
- ✓ Weight : 4.900 Kg
- ✓ Delivered with a 1.8 m hydraulic hose and semi coupler RMKF38NPT

Box on request : VAL 29

p/n P39K

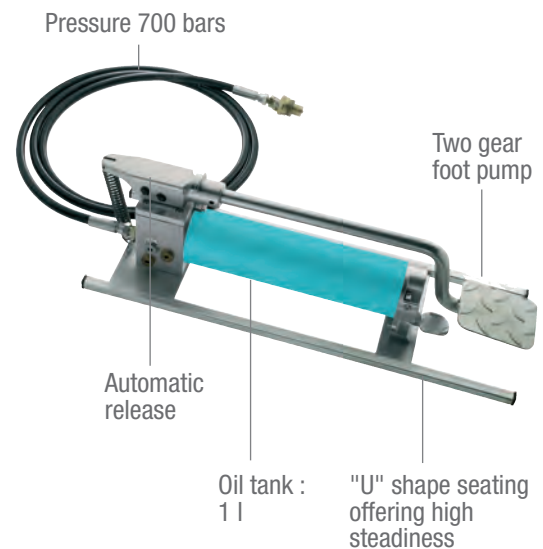


SPM4095 hydraulic pump

- ✓ Length : 700 mm
- ✓ Weight ; 12.900 Kg
- ✓ Delivered with a 3 m hydraulic hose and semi coupler RMKF38NPT

Box on request : VAL 22CR

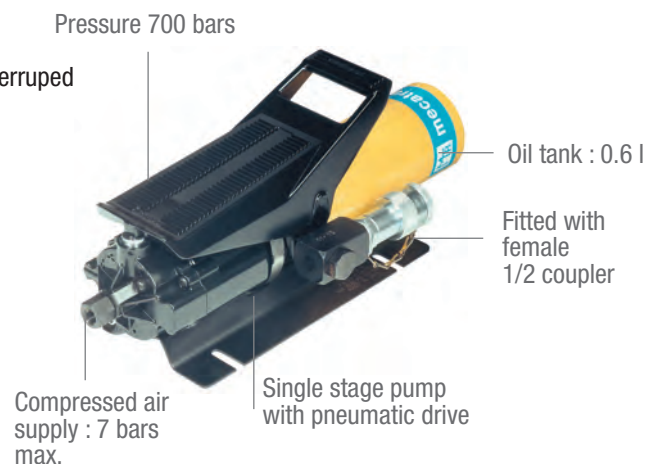
p/n SPM4095K



PA133 Hydro-pneumatic pump

- ✓ Length : 400 mm
- ✓ Weight 4.900 Kg
- ✓ Three ways distributors mainting pressure when air supply is interrupted
- ✓ Delivered with a semi coupler RMKF38NPT
- ✓ Hydraulic hoses (see page 60)

p/n PA133K





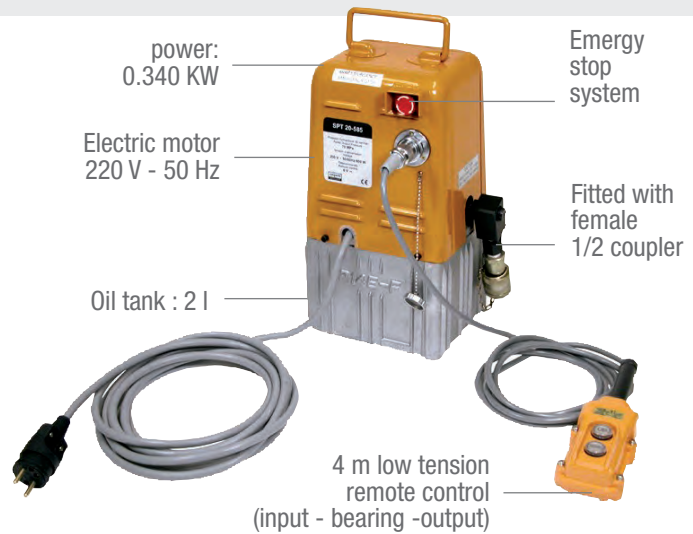
Electro-hydraulic set

Portable and compact electro-hydraulic set SPT20-586KCM

- ✓ Dimensions : 186 x 160 x 350 mm
- ✓ Weight : 15.500 Kg
- ✓ Flow : 0 - 20 bars : 2.60 l/mn
20 - 700 bars : 0.32 l/mn
- ✓ Delivered with a semi coupler RMKF38NPT
- ✓ Hydraulic hoses (see page 60)

Delivered on metallic box

p/n SPT20-586KCM



Hydraulic couplers

- ✓ Standard equipments of our hydraulic toolings



Type of couplers when ordering

	Type	p/n	Dimensions (threading in ")	Description
	K	RMKF38NPT	3/8 - 18 NPT	✓ Male coupler assembly through 3/8 NPT threaded hole
		RFKM38NPT	3/8 - 18 NPT	✓ Raccord femelle, montage par embout mâle fileté 3/8 NPT

Hydraulic hoses with 3/8 NPT couplers



Item code	p/n	Dimensions
7510021	F4622K	1,80 m
7510031	F4623K	3,00 m
7510041	F4626K	6,00 m

Autres dimensions sur demande.

Hydraulic oils



Item code	p/n	Applications	Capacity
7516220	HF95X	PA133 et P39	1 L
7516230	B2XV32	Other tools	2 L



Cutting plier HS6000

The HS6000 cutting plier has been designed for an easy and precised cut thanks to its blades micro-serrated and its robustness. Handles and the general form of this pliers enables excellent handling.

Cannot cut steel.

- ✓ Length : 150 mm
- ✓ Weight : 0.09 kg

p/n HS6000



Plug-in plier MO-66105

The plier MO-66105 allows the easy plug in red and blue disconnects terminals of 2.8, 4.8, 5 and 6.35 mm.

- ✓ Chrome-vanadium steel body
- ✓ Insulated handles up to 1000 V

INSULATION COMPLIANT WITH IEC-60900

- ✓ Length : 210 mm
- ✓ Weight : 0.190 kg

p/n MO-66105

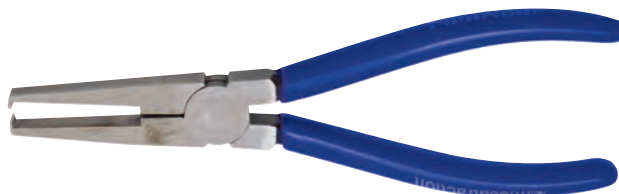


Plug-out plier MO66200

The plier MO-66200 allows the easy plug-out red and blue disconnects terminals of 2.8, 4.7, 5 and 6.35 mm. The specific design of the noses allows plug-out same in difficult area or limited space. It avoid all risk of damage on disconnects.

- ✓ Polished steel body
- ✓ PVC insulated handles
- ✓ Length : 170 mm
- ✓ Weight : 0.150 kg

p/n MO66200





EK50P integrated electric motor cable-cutter

EK50P integrated electric motor cable-cutter

- ✓ New powerful motor with high torque offers superior performances
- ✓ New ergonomics for ease of operation during cable cutting. The new handle orientation gives a better arm position
- ✓ New circuit board which shuts down for overloading protection
- ✓ Cutting capacity up to Ø 50 mm:
 - Cutting capacity Cu: 500 mm²
 - Cutting capacity Al: 800 mm²
 - Cutting capacity Cu hard, AAAC: 150 mm²
- ✓ Cycle time: 3 to 6 s depending on cable
- ✓ Autonomy: 60 to 75 cuts with 3.0 Ah

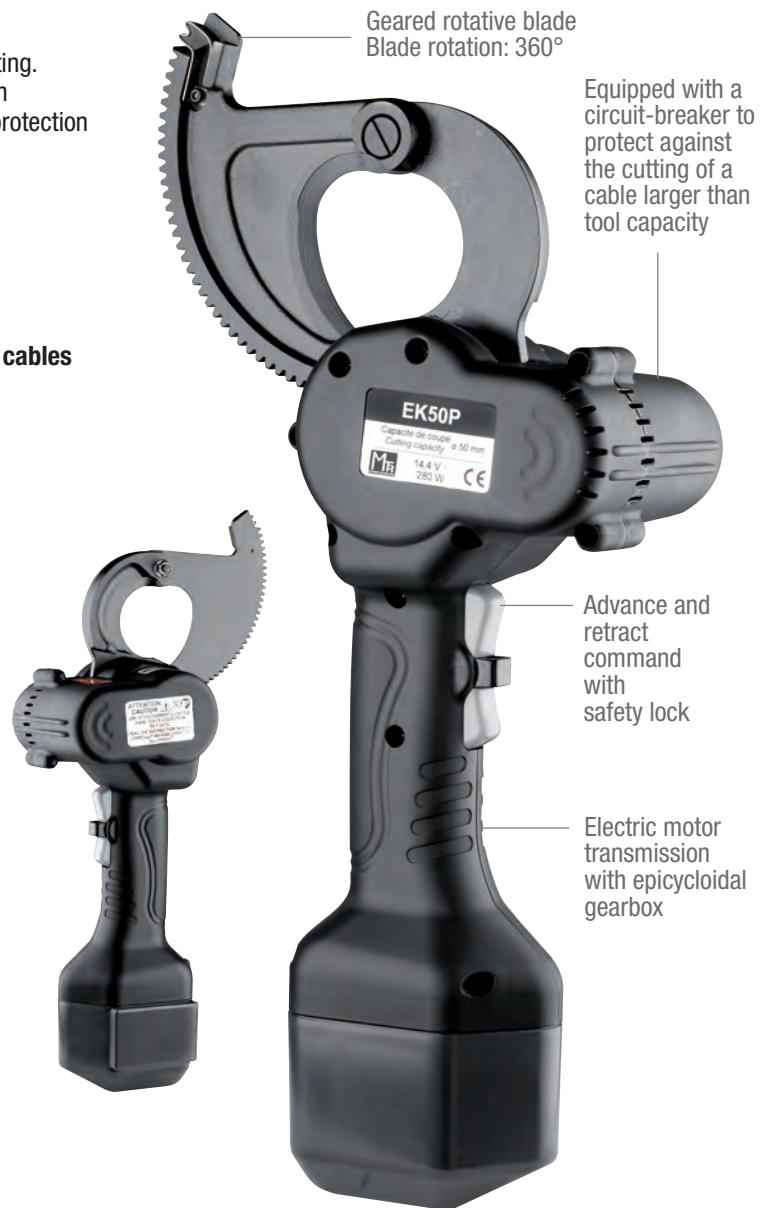
Never use to cut cables with protective steel strip or cables with steel core.

- ✓ Dimensions (battery included): 380 x 150 x 110 mm
- ✓ Weight (battery included): 2.950 Kg

p/n EK50PK1CM

Kit composition :

- ✓ 1 cable-cutter
- ✓ 2 batteries 14.4V - 3.0 Ah
- ✓ 1 charger 220V
- ✓ metallic box



Additional equipment:

Battery

- ✓ Li-Ion battery: 14.4 V - 3 Ah
- ✓ Battery equipped with an integrated electronic circuit associated with 3 LED indicating power load
- ✓ Li-Ion technology without memory effect
- ✓ Weight: 0.570 kg

p/n BC1430X



Fast charger

Charger tri-technologies : charges BA1420, BA1420X, BB1430, BC1430X batteries.

- ✓ Voltage: 14.4 V
- ✓ Technology: NiCd - NiMH - Li-Ion
- ✓ Charging current : 3.0 Ah
- ✓ Charging time BA1420 / BA1420X: 2.0 Ah - 40 min
- ✓ Charging time BB1430 / BC1430X: 3.0 Ah - 60 min
- ✓ Weight: 0.670 kg
- ✓ Voltage: 220 V AC
- ✓ Main plug: EU - Other plugs: on request

p/n CL1430HC





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Railway connections



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