



Łukasiewicz

Institute of Microelectronics
and Photonics

Products and services

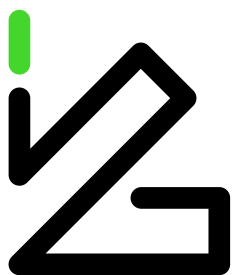
PREDOM

Testing and Certification Center



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Łukasiewicz

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and Photonics

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About us

PREDOM provides a comprehensive range of services for companies



We have high-skilled employees with many years of a hands-on understanding of testing and conformity assessment.



We have state-of-the-art testing equipment.



We carry out testing, certification and conformity assessment with utmost reliability, ensuring a lack of bias, as well as independence and confidentiality.



We guarantee quick turnaround times and competitive prices.

For 40 years, we have been conducting safety, EMC, energy efficiency and noise testing, as well as certification and conformity assessment for electrical products and components.

Services

**Product
conformity
assessment**



**Product
testing**



**Product and management
systems certification:
ENEC, ENEC+, CCA,
CCA-EMC, B, CE,
IECEE CB, ISO 9001**



**Technological
services**





Testing Laboratory

Laboratory for testing home appliances, gas equipment and power tools

Laboratory for testing electronics, medical and lighting equipment, office automation and IT equipment

Laboratory for testing electromagnetic compatibility – EMC and RED

Metrology Laboratory

Services:

- Calibration

Certification Office

Services:

- Product certification
- Conformity assessment
- Management systems certification

Prototyping Unit

Services:

- Technological services



Testing Laboratory

Testing Laboratory

Key capabilities

We are one of the largest laboratories testing electrical and electronic products in Poland.

POLISH ACCREDITATIONS:

- **Accreditations of the Polish Centre for Accreditation (PCA) granted following the verification of the organization's impartiality, the skills of its employees, procedures and testing equipment.**

Testing laboratory AB 003 was granted a certificate for 21 identification codes for test fields/subjects and 1,259 standards in 1993.

INTERNATIONAL ACCREDITATIONS:

- **IECEE IEC System of Conformity Assessment for Electrotechnical Equipment and Components.** European accreditations.

Testing and certifications are carried out according to 114 IEC standards for operational safety and functional features.

- **ETICS – European Testing Inspection and Certification System.**

Testing and certifications are carried out for the registered safety mark ENEC and the ENEC+ mark, which are common for lighting products; we also carry out tests in compliance with CCA and CCA-EMC schemes.



The scopes of PCA accreditation are available at: www.pca.gov.pl and www.predom.com.pl.

Laboratory for testing home appliances, gas equipment and power tools



We test the following types of equipment:

- washing machines, dishwashers, refrigerators, cleaners
- electricity and gas-powered cooking and baking equipment for home and catering use
- water and room heating installations
- whirlpool baths and shower cubicles
- microwave ovens
- small home appliances
- power tools

Testing services:

- for ENEC, IECEE / CB, B, CCA certification
- operational safety, including testing for compliance with the harmonized standards under directives 2014/35/EU [LVD] and 2006/42/EC [machinery], and Regulation 2016/426 [GAR]
- assessment of energy efficiency under Directive 2009/125/EC (2005/32/EC) [Ecodesign] in conjunction with Regulations 1275/2008, 643/2009, 65/2014, 66/2014 and 2017/1369.

Laboratory for testing electronics, medical and lighting equipment, office automation and IT equipment



We test the following types of equipment:

- luminaires and emergency luminaires
- subassemblies, including power supply units for luminaires and LED modules
- office automation and IT equipment, including digital technology equipment
- medical devices
- in vitro diagnostic medical devices
- laboratory and measurement equipment
- adjusters
- sockets and switches

Testing services:

- for ENEC, ENEC+, IECEE / CB, ZHAGA, B and CCA certification
- LVD Directive 2014/35/EU
- Directive 2000/55/EC on energy efficiency requirements for ballasts for fluorescent lighting
- Regulation 2017/745 (medical devices)
- Regulation 2017/746 (in vitro diagnostic medical devices)
- Outdoor Noise Directive 2000/14/EC
- Machinery Directive 2006/42/EC
- European Ecodesign Directive 2009/125/EC

Laboratory for testing electromagnetic compatibility – EMC and RED



Testing for compliance with the harmonized standards under directives 2014/30/EU (EMC) and 2014/53/EU (RED) for the following:

Emissions of electromagnetic disturbances:

- voltage of continuous disturbances at terminals (9kHz–30MHz)
- power of disturbances (30MHz–300MHz)
- power of non-continuous disturbances (150kHz–30MHz)
- intensity of the current induced by the electromagnetic field in the loop antenna (9kHz–30MHz)
- radiated disturbances (30MHz–6GHz)
- harmonic current emissions
- parameters of voltage fluctuations and light flicker

Immunity to electromagnetic disturbances:

- electrostatic discharges (ESD)
- immunity to radiated, radio-frequency, electromagnetic field (80MHz – 6GHz)
- surges
- bursts
- conducted disturbances induced by radio-frequency fields (150kHz–230MHz)
- power-grid frequency magnetic field
- voltage dips, short interruptions and voltage variations
- immunity to low frequency, harmonic and interharmonic distortions together with power-grid signals in the AC supply connection

Radio spectrum matters (ERM):

- measuring the effective radiation power
- measuring the emission in the vicinity of the desired bandwidth
- measuring the emission in the unwanted bandwidth
- measuring transient power
- measuring working bandwidth
- measuring modulation bandwidth
- measuring channel spacing



- We carry out design testing at the design stage and preliminary tests of prototypes.
- We provide direct access to measuring equipment and professional assistance to detect sources of disturbances at the design stage.
- The laboratory has specialized testing stations, including a semi-anechoic chamber (SAC) with 10m measuring distance.



Metrology Laboratory

Metrology Laboratory



Calibration of measuring instruments under accreditation No. AP 153 granted by the Polish Centre for Accreditation:

DC and LF electric values:

- analogue and digital DC and AC voltage meters
- analogue and digital DC and AC meters
- analogues and digital resistance meters (DC)
- multimeters



The scopes of PCA accreditation are available at:

- www.pca.gov.pl
- www.predom.com.pl

The Metrology Laboratory has high class calibration equipment. Its standards have been benchmarked against national measuring standards through calibration in the Central Office of Measures or accredited calibration laboratories.

Metrology Laboratory



We also provide calibration in the following fields:

DC and LF electrical values:

- active, reactive and apparent power meters
- insulation resistance meters
- capacity meters
- meters of power grid parameters
- protective circuit resistance meters
- leakage current meters
- kilovoltmeters and insulation dielectric strength testers
- electrical safety testers
- oscilloscopes

HF electrical values:

- generators of electrostatic discharges (ESD)
- electrical fast transient burst generators (EFT/B)
- surge generators
- artificial networks
- absorption clamps
- voltage probes
- CDN systems
- dampers

Geometric values:

- calliper instruments
- micrometric instruments
- sensing instruments
- protractors
- 90° squares
- gauge blocks

Temperature:

- liquid-in-glass thermometers
- electronic thermometers cooperating with resistance and semiconductor sensors and thermocouples

Pressure:

- spring and electronic pressure gauges

The background consists of a dense grid of blue, pyramid-shaped acoustic foam panels. A glowing green graphic element, resembling a stylized 'C' or a bracket, is positioned on the left side of the image. The text 'Certification Office' is centered horizontally and partially overlaid by the green graphic.

Certification Office

Certification Office

Product certification

We hold the following accreditations for a product certification body:

POLISH ACCREDITATIONS:

- **Accreditations of the Polish Centre for Accreditation (PCA) granted following the verification of the organization's impartiality, the skills of its employees, procedures and testing equipment.**

The office was granted accreditation certificate AC 044 in 1997.

INTERNATIONAL ACCREDITATIONS:

- **IECEE IEC System of Conformity Assessment for Electrotechnical Equipment and Components. European accreditation.**

Testing and certifications are carried out according to 114 IEC standards for operational safety and functional features.

- **ETICS – European Testing Inspection and Certification System.**

Testing and certifications are carried out for the registered safety mark ENEC and the ENEC+ mark, which are common for lighting products; we also carry out CCA and CCA-EMC certifications.



The scopes of PCA accreditation are available at: www.pca.gov.pl and www.predom.com.pl.

Certification Office

Product certification

We carry out certifications and conformity assessments of products and appliances in compliance with the following schemes: CE, ENEC, ENEC+, B, IECEE CB Scheme, CCA, CCA-EMC, and ZHAGA.



The high quality European mark for electrical products that demonstrates compliance with European safety standards.



The high quality European mark for lighting products.



On the basis of a test report and certificate obtained from Łukasiewicz – IMiF Predom Division, a manufacturer may obtain an international certificate in any IECEE certification body in over 50 countries.

NTR-CCA

CCA is the oldest mutual recognition agreement for electrical products in Europe.



The CCA-EMC certification demonstrates that the electrical product complies with European electromagnetic compatibility standards.



Łukasiewicz-IMiF PREDOM Division, as a ZHAGA Authorized Testing Center, carries out testing and certifications for a ZHAGA mark for luminaires.



Certifications for compliance with the schemes of Łukasiewicz-IMiF PREDOM Division on the basis of Polish PN standards for operational safety, electromagnetic compatibility and energy efficiency.

Certification Office

Conformity assessment

Łukasiewicz – Institute of Microelectronics and Photonics / PREDOM Division Testing and Certification Center is an entity authorized by the Minister of Development and the Minister of Digital Affairs and notified in the European Union (since 2004) No. 1451 for the following New Approach Directives [certification for CE marking]:

- 01 Directive 2014/30/EU relating to electromagnetic compatibility (EMC)
- 02 Directive 2014/53/EU relating to radio equipment
- 03 Regulation (EU) 2016/426 on appliances burning gaseous fuels
- 04 Directive 2006/42/EC on machinery
- 05 Directive 2000/14/EC relating to the noise emission by equipment for use outdoors
- 06 Directive 92/42/EEC on efficiency requirements for new hot-water boilers



In addition, we carry out any conformity assessment procedure under Directive LVD 2014/35/EU.

Certification Office

Management systems certification

We hold an accreditation PCA AC 134 for a management systems certification body.

Łukasiewicz IMiF / PREDOM Division carries out certification of quality management systems according to the Quality Management System Certification Schemes for compliance with the PN-EN ISO 9001:2015-10 standard.



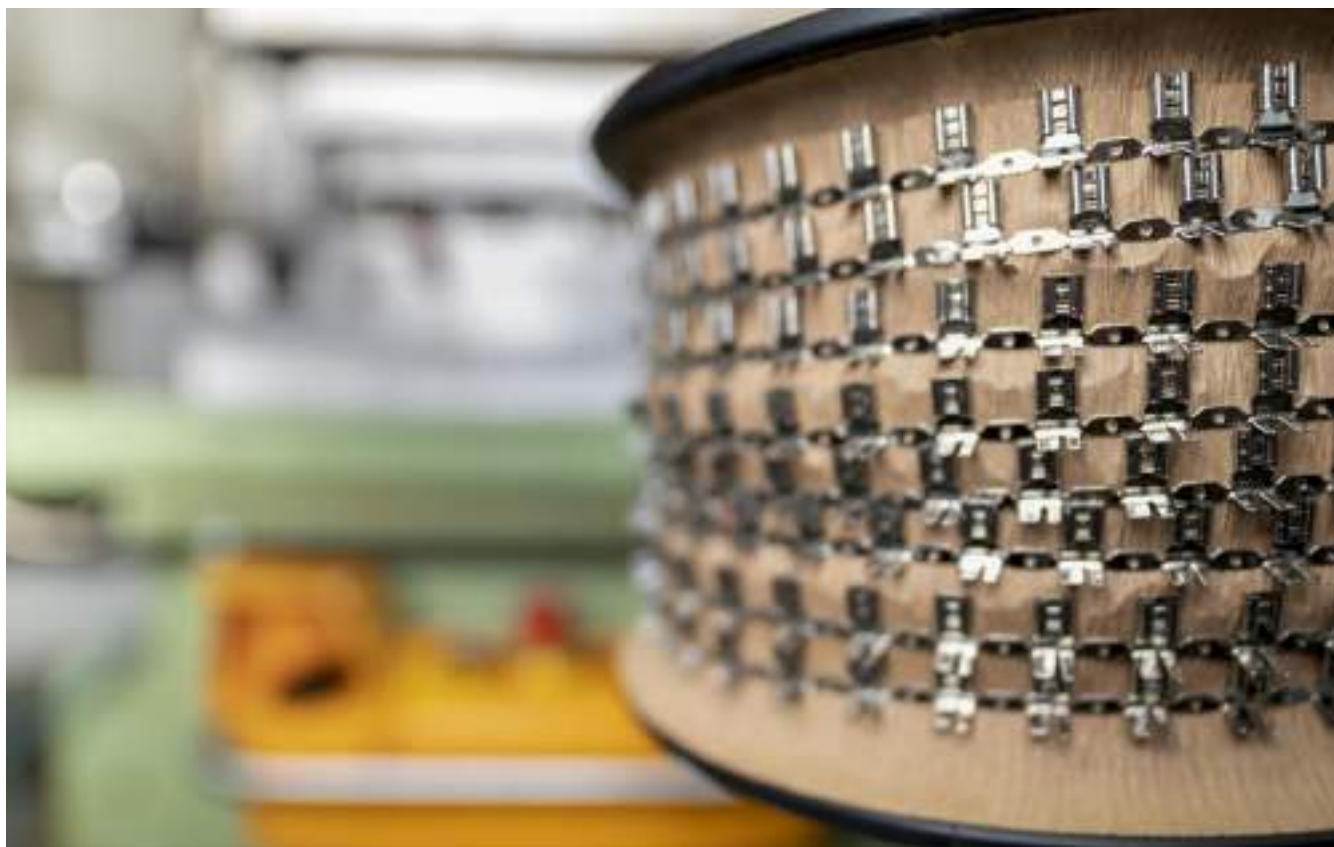
Certifications are carried out in the following fields:

EA code	Scope description	PKD/EKD/NACE	Assessment criteria
17	Metals and fabricated metal products	24, excl. 24.46, 25, excl. 25.4, 33.11	The requirements of the PN-EN ISO 9001:2015-10 standard
18	Machinery and equipment	25.4, 28, 30.4, 33.12, 33.2	
19	Electrical and optical equipment	26, 27, 33.13, 33.14, 95.1	



Prototyping Unit

Prototyping Unit



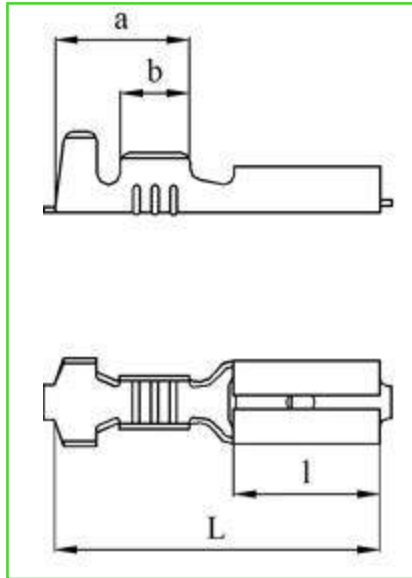


Prototyping Unit

Receptacles

RECEPTACLES

type 2,8/F-0,5

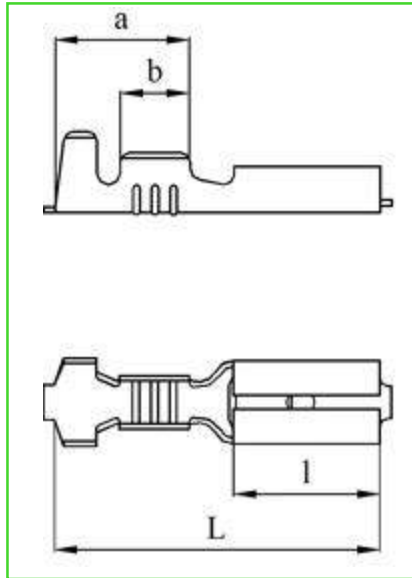
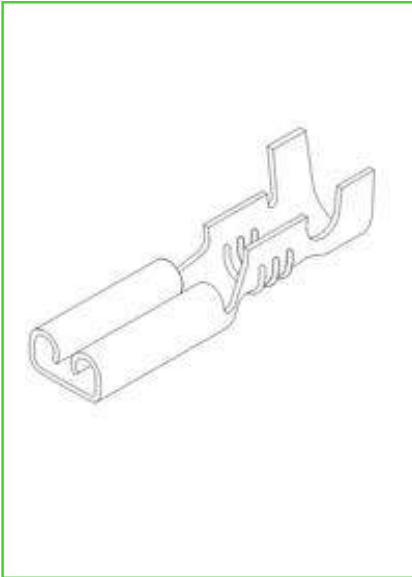


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimmensions				Th.
							L	l	a	b	
2,8/F-0,5	0,2-0,5	0,5	brass	-	spool	0028050000	14	6,3	5,8	3	0,25
2,8/F-0,5	0,2-0,5	0,5	brass	-	cut	0028050001	14	6,3	5,8	3	0,25
2,8/F-0,5	0,2-0,5	0,5	brass	tin	spool	0028050010	14	6,3	5,8	3	0,25
2,8/F-0,5	0,2-0,5	0,5	brass	tin	cut	0028050011	14	6,3	5,8	3	0,25
2,8/F-0,5	0,2-0,5	0,5	brass	nickel	spool	0028050020	14	6,3	5,8	3	0,25
2,8/F-0,5/0,8	0,2-0,5	0,8	brass	-	spool	0028051000	14	6,3	5,8	3	0,25
2,8/F-0,5/0,8	0,2-0,5	0,8	brass	-	cut	0028051001	14	6,3	5,8	3	0,25
2,8/F-0,5/0,8	0,2-0,5	0,8	brass	tin	spool	0028051010	14	6,3	5,8	3	0,25
2,8/F-0,5/0,8	0,2-0,5	0,8	brass	tin	cut	0028051011	14	6,3	5,8	3	0,25
2,8/F-0,5/0,8	0,2-0,5	0,8	brass	nickel	spool	0028051020	14	6,3	5,8	3	0,25



RECEPTACLES

type 2,8/F-1

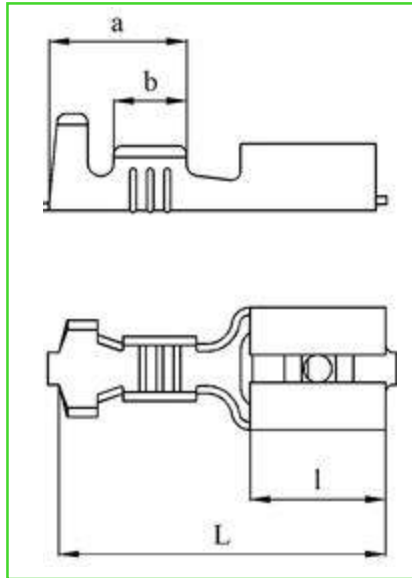
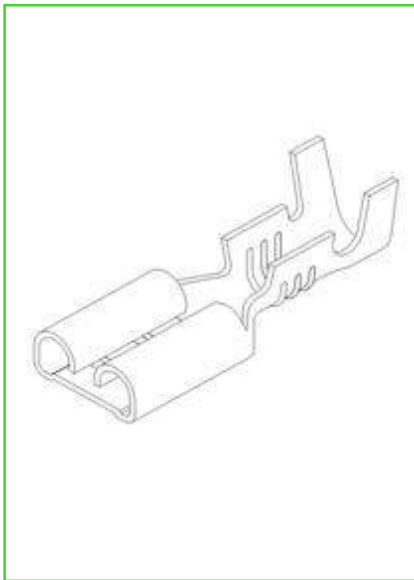


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
2,8/F-1	0,5 - 1	0,5	brass	-	spool	0028100000	14	6,3	5,8	3	0,25
2,8/F-1	0,5 - 1	0,5	brass	-	cut	0028100001	14	6,3	5,8	3	0,25
2,8/F-1	0,5 - 1	0,5	brass	tin	spool	0028100010	14	6,3	5,8	3	0,25
2,8/F-1	0,5 - 1	0,5	brass	tin	cut	0028100011	14	6,3	5,8	3	0,25
2,8/F-1	0,5 - 1	0,5	brass	nickel	spool	0028100020	14	6,3	5,8	3	0,25
2,8/F-1/0,8	0,5 - 1	0,8	brass	-	spool	0028101000	14	6,3	5,8	3	0,25
2,8/F-1/0,8	0,5 - 1	0,8	brass	-	cut	0028101001	14	6,3	5,8	3	0,25
2,8/F-1/0,8	0,5 - 1	0,8	brass	tin	spool	0028101010	14	6,3	5,8	3	0,25
2,8/F-1/0,8	0,5 - 1	0,8	brass	tin	cut	0028101011	14	6,3	5,8	3	0,25
2,8/F-1/0,8	0,5 - 1	0,8	brass	nickel	spool	0028101020	14	6,3	5,8	3	0,25



RECEPTACLES

type 4,8/F-0,5

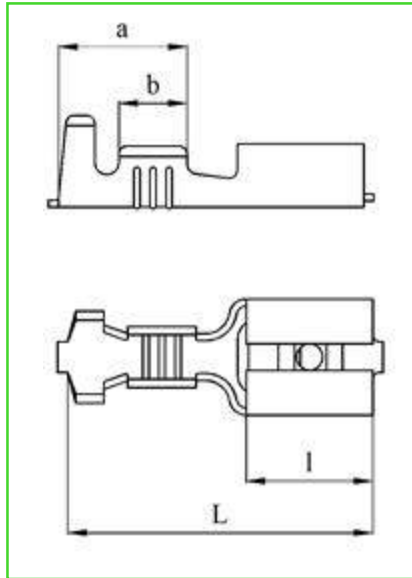
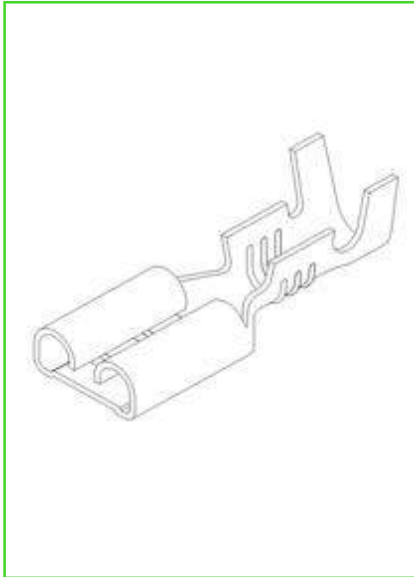


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
4,8/F-0,5	0,2-0,5	0,8	brass	-	spool	0048050000	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5	0,2-0,5	0,8	brass	-	cut	0048050001	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5	0,2-0,5	0,8	brass	tin	spool	0048050010	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5	0,2-0,5	0,8	brass	tin	cut	0048050011	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5/0,5	0,2-0,5	0,5	brass	-	spool	0048051000	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5/0,5	0,2-0,5	0,5	brass	-	cut	0048051001	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5/0,5	0,2-0,5	0,5	brass	tin	spool	0048051010	15,6	6,1	6,4	3,4	0,3
4,8/F-0,5/0,5	0,2-0,5	0,5	brass	tin	cut	0048051011	15,6	6,1	6,4	3,4	0,3



RECEPTACLES

type 4,8/F-1

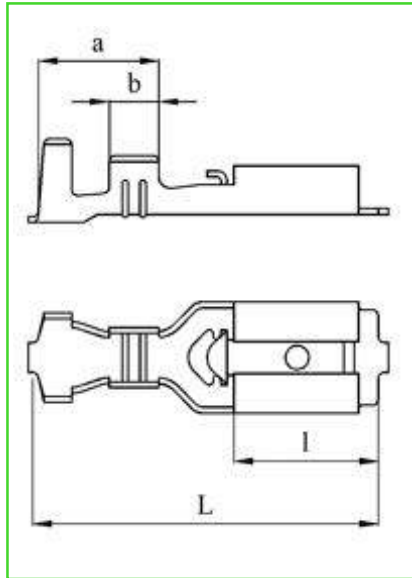
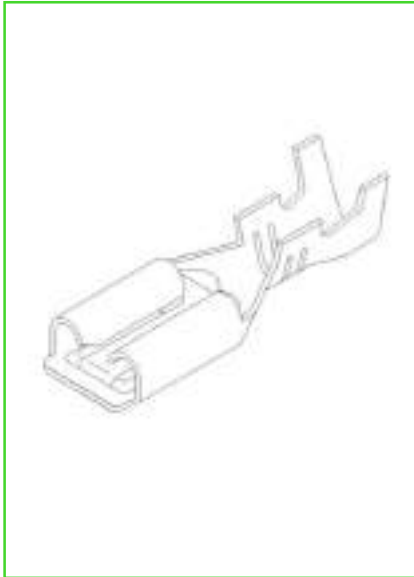


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
4,8/F-1	0,5 - 1	0,8	brass	-	spool	0048100000	15,6	6,1	6,4	3,4	0,3
4,8/F-1	0,5 - 1	0,8	brass	-	cut	0048100001	15,6	6,1	6,4	3,4	0,3
4,8/F-1	0,5 - 1	0,8	brass	tin	spool	0048100010	15,6	6,1	6,4	3,4	0,3
4,8/F-1	0,5 - 1	0,8	brass	tin	cut	0048100011	15,6	6,1	6,4	3,4	0,3
4,8/F-1/0,5	0,5 - 1	0,5	brass	-	spool	0048101000	15,6	6,1	6,4	3,4	0,3
4,8/F-1/0,5	0,5 - 1	0,5	brass	-	cut	0048101001	15,6	6,1	6,4	3,4	0,3
4,8/F-1/0,5	0,5 - 1	0,5	brass	tin	spool	0048101010	15,6	6,1	6,4	3,4	0,3
4,8/F-1/0,5	0,5 - 1	0,5	brass	tin	cut	0048101011	15,6	6,1	6,4	3,4	0,3



RECEPTACLES WITH SPRING MEMBER

type 4,8/FZ-1

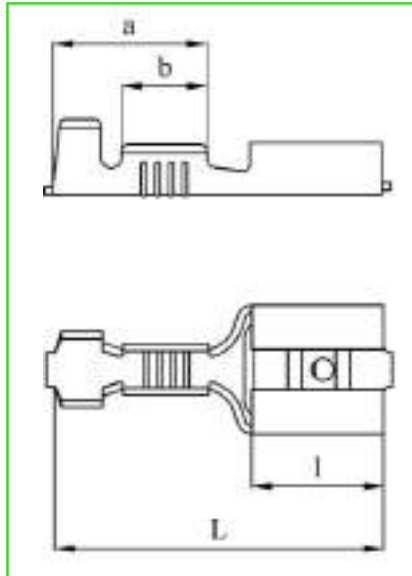
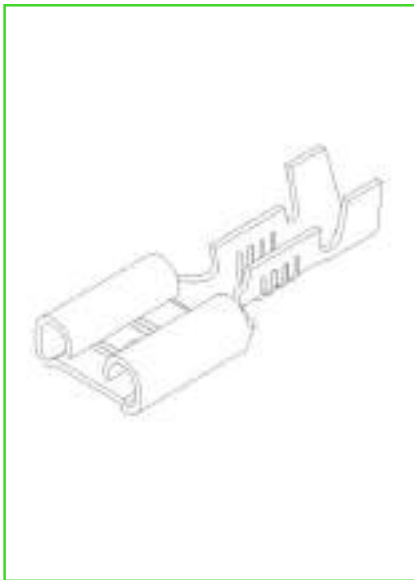


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
4,8/FZ-1	0,5 - 1	0,8	brass	-	spool	0348100000	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1	0,5 - 1	0,8	brass	-	cut	0348100001	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1	0,5 - 1	0,8	brass	tin	spool	0348100010	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1	0,5 - 1	0,8	brass	tin	cut	0348100011	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1/0,5	0,5 - 1	0,5	brass	-	spool	0348101000	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1/0,5	0,5 - 1	0,5	brass	-	cut	0348101001	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1/0,5	0,5 - 1	0,5	brass	tin	spool	0348101010	17,2	6,3	6,1	2,5	0,3
4,8/FZ-1/0,5	0,5 - 1	0,5	brass	tin	cut	0348101011	17,2	6,3	6,1	2,5	0,3



RECEPTACLES

type 6,3/F-1

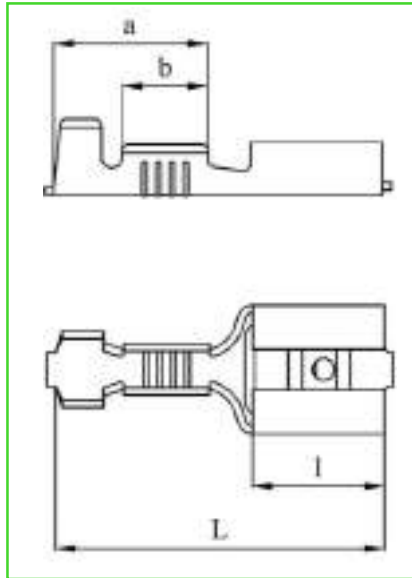
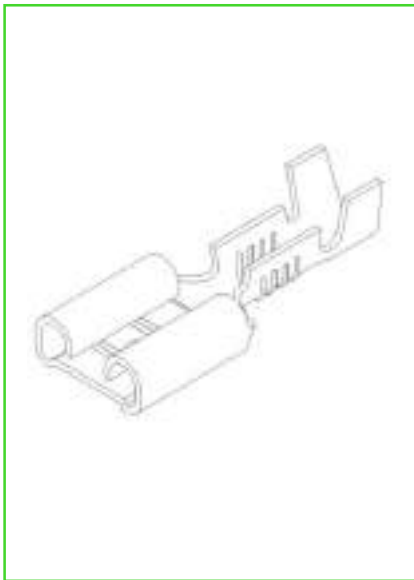


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/F-1	0,5 - 1	0,8	brass	-	spool	0063100000	19,2	7,7	9	5	0,35
6,3/F-1	0,5 - 1	0,8	brass	-	cut	0063100001	19,2	7,7	9	5	0,35
6,3/F-1	0,5 - 1	0,8	brass	tin	spool	0063100010	19,2	7,7	9	5	0,35
6,3/F-1	0,5 - 1	0,8	brass	tin	cut	0063100011	19,2	7,7	9	5	0,35
6,3/F-1	0,5 - 1	0,8	steel	nickel	spool	0063100210	19,2	7,7	9	5	0,4
6,3/F-1	0,5 - 1	0,8	steel	nickel	cut	0063100211	19,2	7,7	9	5	0,4



RECEPTACLES

type 6,3/F-2,5

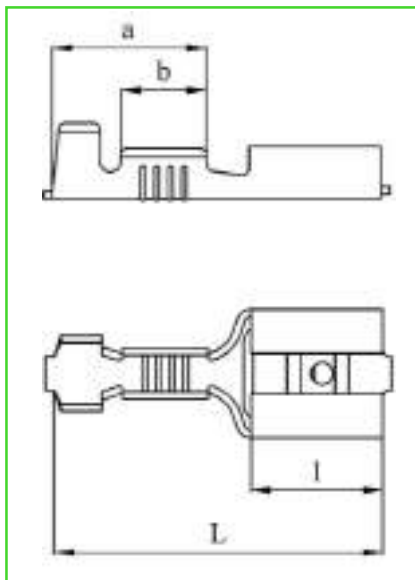
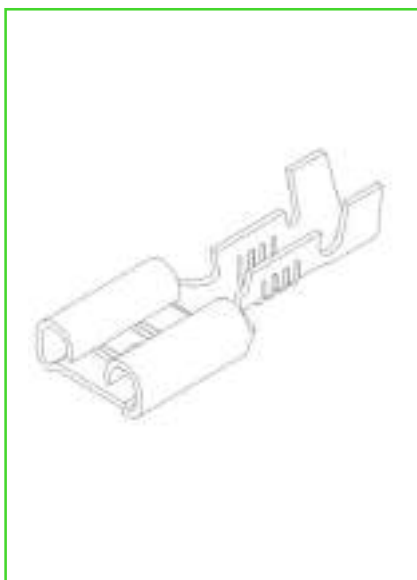


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/F-2,5	1,5-2,5	0,8	brass	-	spool	0063250000	19,2	7,7	9	5	0,35
6,3/F-2,5	1,5-2,5	0,8	brass	-	cut	0063250001	19,2	7,7	9	5	0,35
6,3/F-2,5	1,5-2,5	0,8	brass	tin	spool	0063250010	19,2	7,7	9	5	0,35
6,3/F-2,5	1,5-2,5	0,8	brass	tin	cut	0063250011	19,2	7,7	9	5	0,35
6,3/F-2,5	1,5-2,5	0,8	steel	nickel	spool	0063250210	19,2	7,7	9	5	0,4
6,3/F-2,5	1,5-2,5	0,8	steel	nickel	cut	0063250211	19,2	7,7	9	5	0,4



RECEPTACLES

type 6,3/F-4

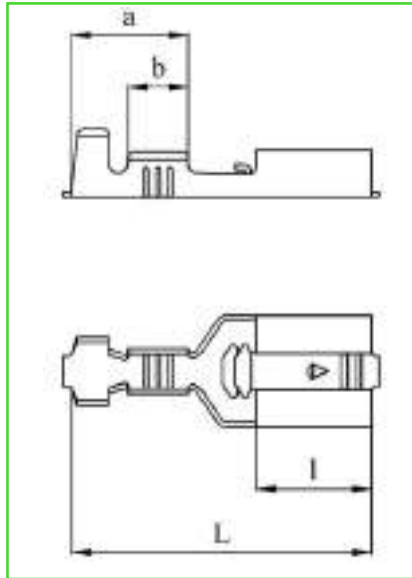
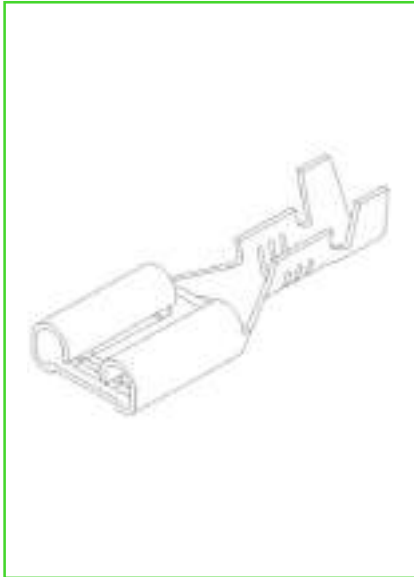


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/F-4	2,5 - 4	0,8	brass	-	spool	0063400000	19,2	7,7	9,3	5	0,35
6,3/F-4	2,5 - 4	0,8	brass	-	cut	0063400001	19,2	7,7	9,3	5	0,35
6,3/F-4	2,5 - 4	0,8	brass	tin	spool	0063400010	19,2	7,7	9,3	5	0,35
6,3/F-4	2,5 - 4	0,8	brass	tin	cut	0063400011	19,2	7,7	9,3	5	0,35
6,3/F-4	2,5 - 4	0,8	steel	nickel	spool	0063400210	19,2	7,7	9,3	5	0,4
6,3/F-4	2,5 - 4	0,8	steel	nickel	cut	0063400211	19,2	7,7	9,3	5	0,4



RECEPTACLES WITH SPRING MEMBER

type 6,3/FZ-1

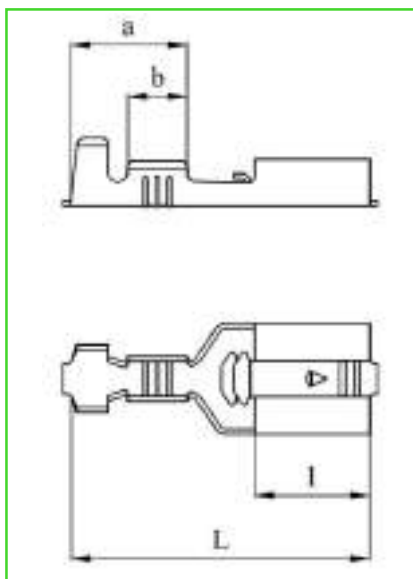
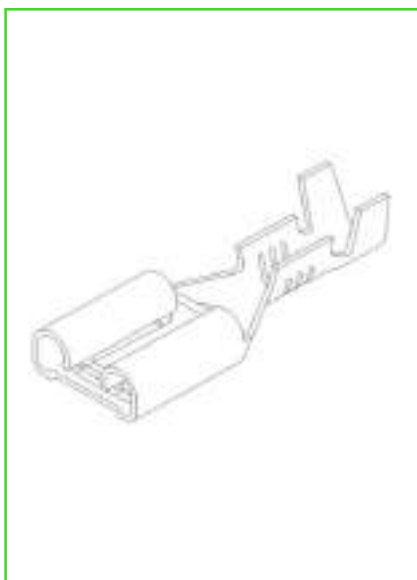


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/FZ-1	0,5 - 1	0,8	brass	-	spool	0363100000	20	7,7	7,8	4	0,35
6,3/FZ-1	0,5 - 1	0,8	brass	-	cut	0363100001	20	7,7	7,8	4	0,35
6,3/FZ-1	0,5 - 1	0,8	brass	tin	spool	0363100010	20	7,7	7,8	4	0,35
6,3/FZ-1	0,5 - 1	0,8	brass	tin	cut	0363100011	20	7,7	7,8	4	0,35



RECEPTACLES WITH SPRING MEMBER

type 6,3/FZ-2,5

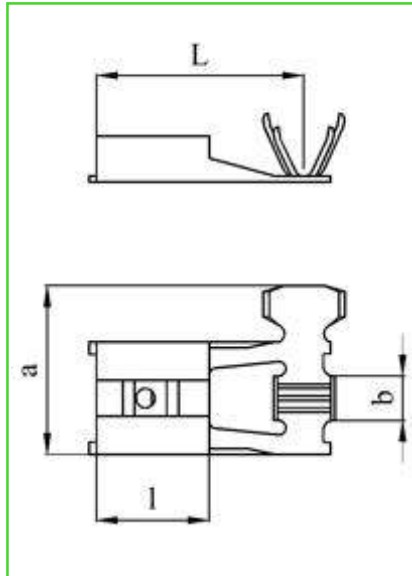
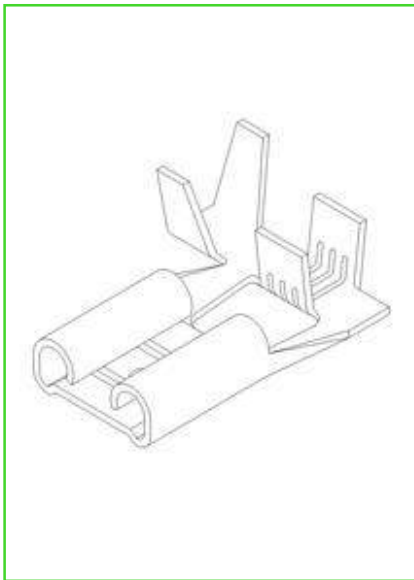


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/FZ-2,5	1,5 – 2,5	0,8	brass	-	spool	0363250000	20	7,7	7,8	4	0,35
6,3/FZ-2,5	1,5 – 2,5	0,8	brass	-	cut	0363250001	20	7,7	7,8	4	0,35
6,3/FZ-2,5	1,5 – 2,5	0,8	brass	tin	spool	0363250010	20	7,7	7,8	4	0,35
6,3/FZ-2,5	1,5 – 2,5	0,8	brass	tin	cut	0363250011	20	7,7	7,8	4	0,35



ANGULAR RECEPTACLES

type 6,3/H-2,5/A

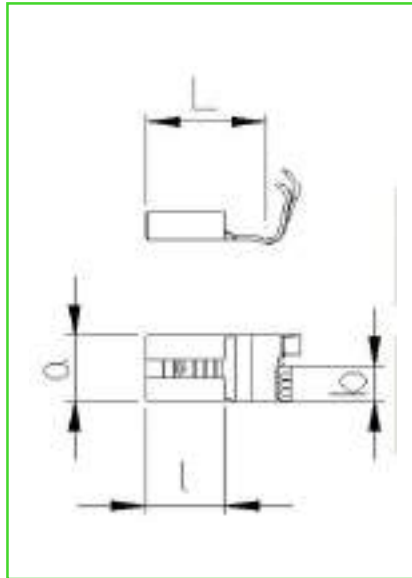


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/H-2,5/A	1,5 – 2,5	0,8	brass	-	spool	0263250000	14,2	7,7	11,4	3,5	0,35
6,3/H-2,5/A	1,5 – 2,5	0,8	brass	-	cut	0263250001	14,2	7,7	11,4	3,5	0,35
6,3/H-2,5/A	1,5 – 2,5	0,8	brass	tin	spool	0263250010	14,2	7,7	11,4	3,5	0,35
6,3/H-2,5/A	1,5 – 2,5	0,8	brass	tin	cut	0263250011	14,2	7,7	11,4	3,5	0,35



ANGULAR RECEPTACLES

type 6,3/H-1/B (FL1)

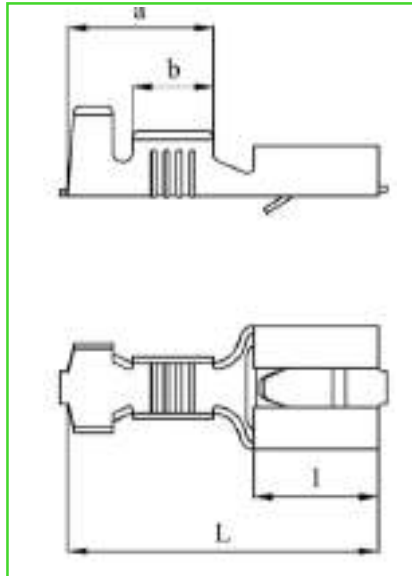
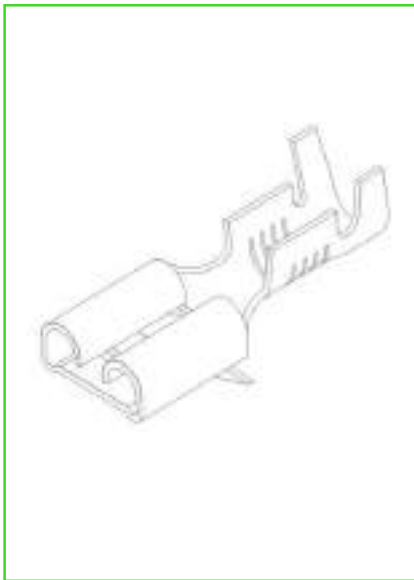


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/H-1/B (FL1)	0,5 - 2	0,8	brass	-	spool	0463200000	11,6	7,6	7,6	4	0,4
6,3/H-1/B (FL1)	0,5 - 2	0,8	brass	-	cut	0463200001	11,6	7,6	7,6	4	0,4
6,3/H-1/B (FL1)	0,5 - 2	0,8	brass	tin	spool	0463200010	11,6	7,6	7,6	4	0,4
6,3/H-1/B (FL1)	0,5 - 2	0,8	brass	tin	cut	0463200011	11,6	7,6	7,6	4	0,4
6,3/H-1/B (FL1)	0,5 - 2	0,8	steel	nickel	spool	0463200110	11,6	7,6	7,6	4	0,4
6,3/H-1/B (FL1)	0,5 - 2	0,8	steel	nickel	cut	0463200211	11,6	7,6	7,6	4	0,4



RECEPTACLES FOR HOUSING

type 6,3/J-1/A

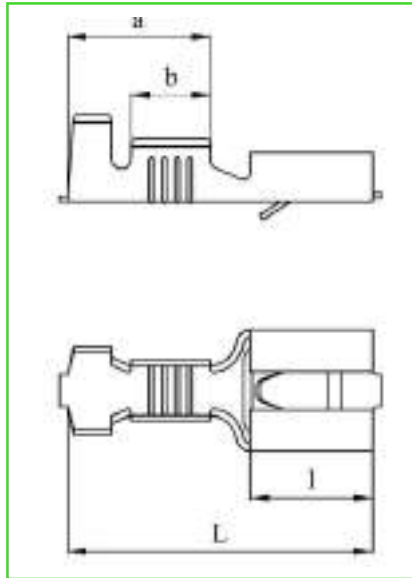
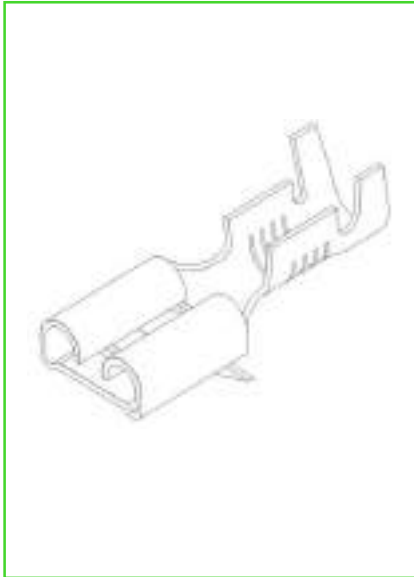


Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/J-1/A	0,5 - 1	0,8	brass	-	spool	0163100000	19,5	7,7	8	4	0,35
6,3/J-1/A	0,5 - 1	0,8	brass	-	cut	0163100001	19,5	7,7	8	4	0,35
6,3/J-1/A	0,5 - 1	0,8	brass	tin	spool	0163100010	19,5	7,7	8	4	0,35
6,3/J-1/A	0,5 - 1	0,8	brass	tin	cut	0163100011	19,5	7,7	8	4	0,35



RECEPTACLES FOR HOUSING

type 6,3/J-2,5/A



Type	Wire size range	Fit tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
6,3/J-2,5/A	1,5 – 2,5	0,8	brass	-	spool	0163250000	19,5	7,7	8	4	0,35
6,3/J-2,5/A	1,5 – 2,5	0,8	brass	-	cut	0163250001	19,5	7,7	8	4	0,35
6,3/J-2,5/A	1,5 – 2,5	0,8	brass	tin	spool	0163250010	19,5	7,7	8	4	0,35
6,3/J-2,5/A	1,5 – 2,5	0,8	brass	tin	cut	0163250011	19,5	7,7	8	4	0,35



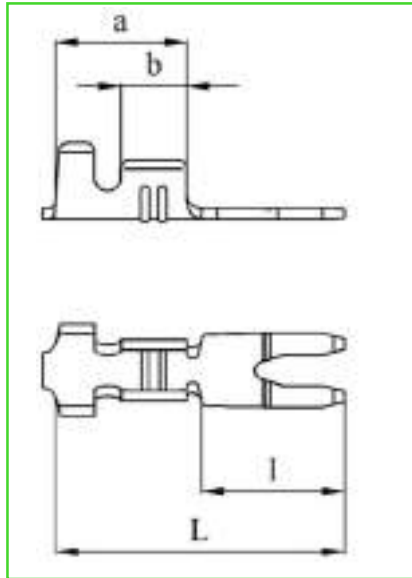


Prototyping Unit

Tab Terminals

TAB WIRE TERMINALS

type 3,4/WZD-0,9

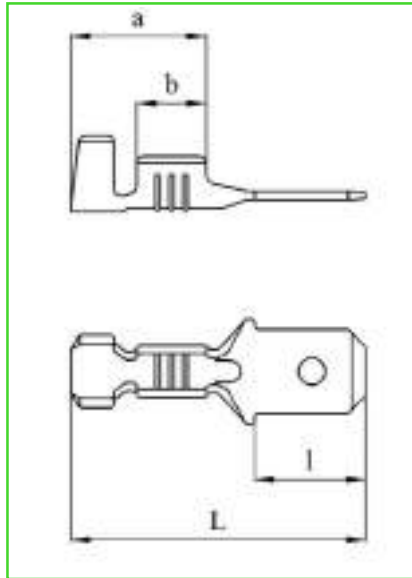
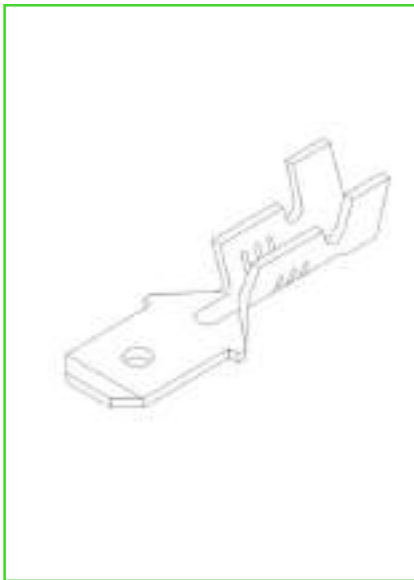


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
3,4/WZD-0,9	0,3 - 0,9	brass	-	spool	1634090000	13,2	6,5	6	3	0,5
3,4/WZD-0,9	0,3 - 0,9	brass	tin	spool	1634090010	13,2	6,5	6	3	0,5



TAB TERMINALS

type 4,8/A-1

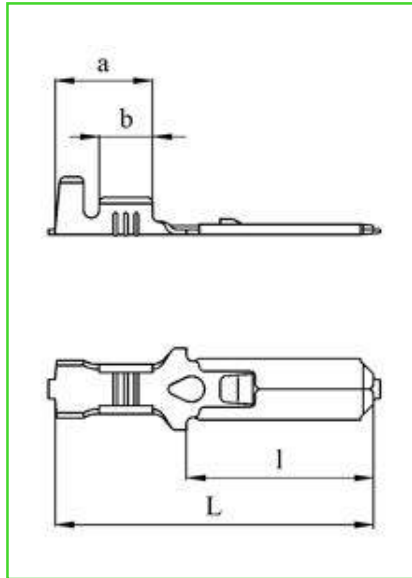


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
4,8/A-1	0,5 - 1	brass	-	spool	1048100000	17	6,47	7,8	4	0,5
4,8/A-1	0,5 - 1	brass	tin	spool	1048100010	17	6,47	7,8	4	0,5



TAB TERMINALS FOR HOUSING

type 4,8/E-1/A

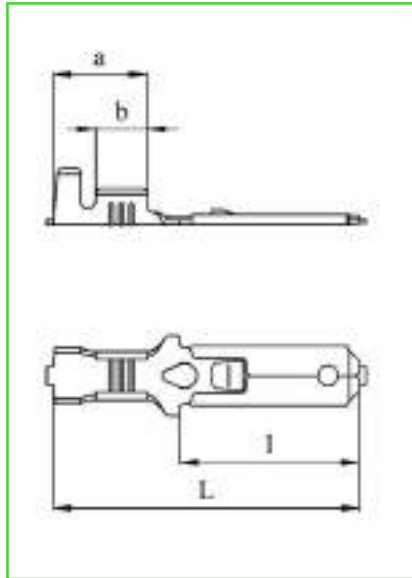
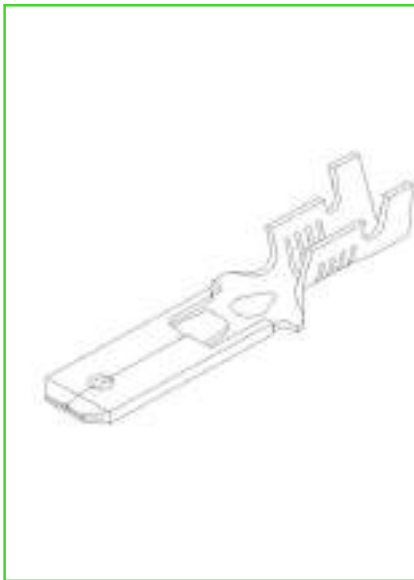


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
4,8/E-1/A	0,5 - 1	brass	-	spool	1348100000	24,5	14,4	7,5	4,1	0,4
4,8/E-1/A	0,5 - 1	brass	-	cut	1348100001	24,5	14,4	7,5	4,1	0,4
4,8/E-1/A	0,5 - 1	brass	tin	spool	1348100010	24,5	14,4	7,5	4,1	0,4
4,8/E-1/A	0,5 - 1	brass	tin	cut	1348100011	24,5	14,4	7,5	4,1	0,4



TAB TERMINALS FOR HOUSING

type 4,8/E-1/B

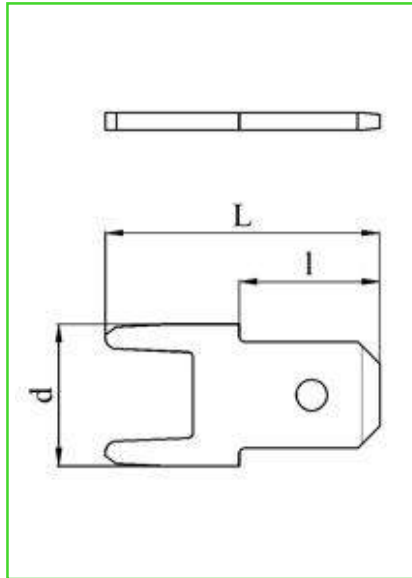
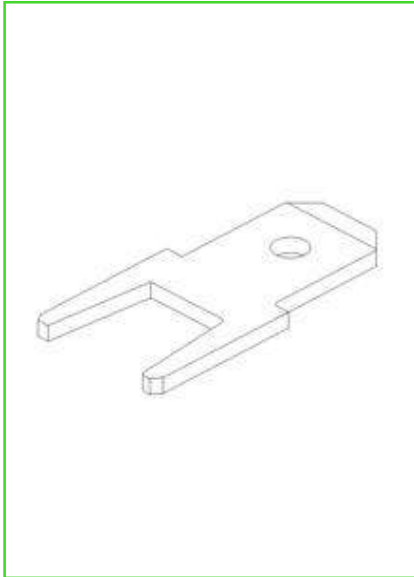


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
4,8/E-1/B	0,5 - 1	brass	-	spool	1348101000	24,5	14,4	7,5	4,1	0,4
4,8/E-1/B	0,5 - 1	brass	-	cut	1348101001	24,5	14,4	7,5	4,1	0,4
4,8/E-1/B	0,5 - 1	brass	tin	spool	1348101010	24,5	14,4	7,5	4,1	0,4
4,8/E-1/B	0,5 - 1	brass	tin	cut	1348101011	24,5	14,4	7,5	4,1	0,4



SOLDERING TABS

type 4,8/WL/A

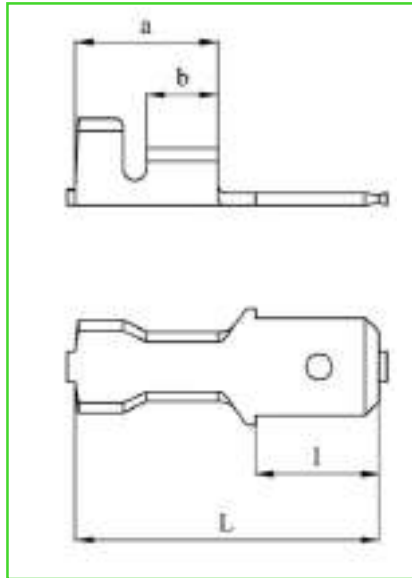
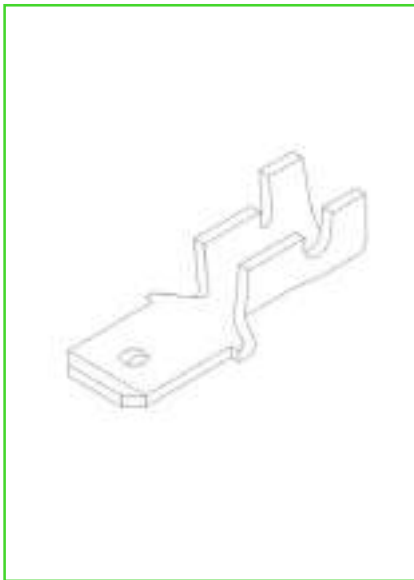


Type	Wire size range	Material	Surface	Made	Dimensions			Th.
					d	L	l	
4,8/WL/A	brass	-	cut	1548000001	6,4	12,5	6,4	0,8
4,8/WL/A	brass	tin	cut	1548000011	6,4	12,5	6,4	0,8



TAB TERMINALS

type 6,3/A-2,5

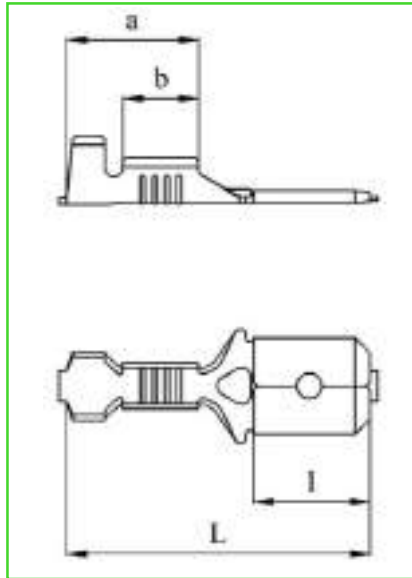


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/A-2,5	1,5-2,5	brass	-	spool	1063250000	19,6	7,95	9,2	4,6	0,8
6,3/A-2,5	1,5-2,5	brass	-	cut	1063250001	19,6	7,95	9,2	4,6	0,8
6,3/A-2,5	1,5-2,5	brass	tin	spool	1063250010	19,6	7,95	9,2	4,6	0,8
6,3/A-2,5	1,5-2,5	brass	tin	cut	1063250011	19,6	7,95	9,2	4,6	0,8
6,3/A-2,5	1,5-2,5	steel	-	spool	1063250200	19,6	7,95	9,2	4,6	0,8



TAB TERMINALS

type 6,3/A-1/S/B

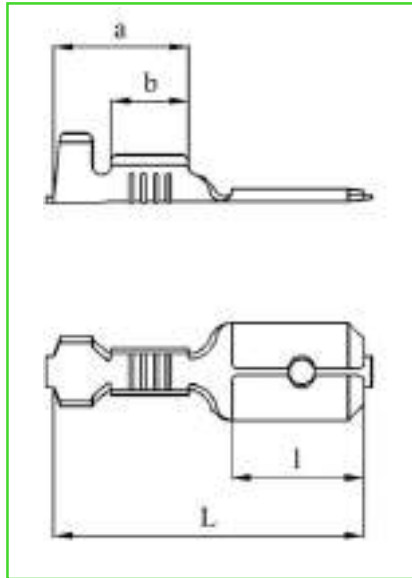
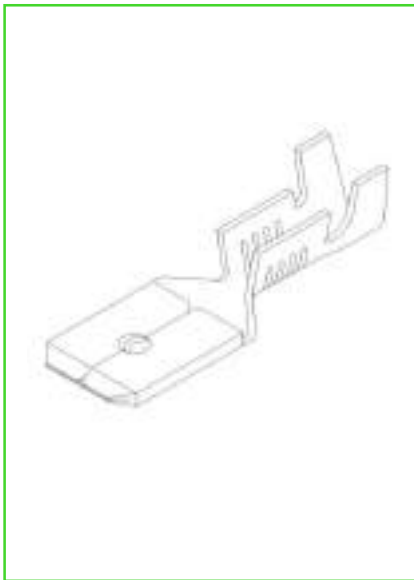


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/A-1/S/B	0,5-1	brass	-	spool	1163101000	20	8,2	8,7	5	0,4
6,3/A-1/S/B	0,5-1	brass	-	cut	1163101001	20	8,2	8,7	5	0,4
6,3/A-1/S/B	0,5-1	brass	tin	spool	1163101010	20	8,2	8,7	5	0,4
6,3/A-1/S/B	0,5-1	brass	tin	cut	1163101011	20	8,2	8,7	5	0,4



TAB TERMINALS

type 6,3/A-2,5/S

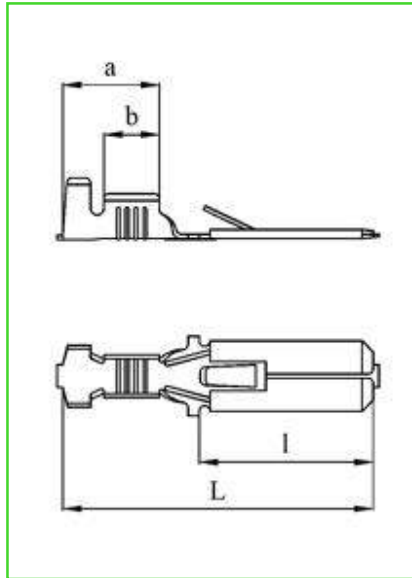


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/A-2,5/S	1,5 – 2,5	brass	-	spool	1163250000	20	8,5	8,7	5	0,4
6,3/A-2,5/S	1,5 – 2,5	brass	-	cut	1163250001	20	8,5	8,7	5	0,4
6,3/A-2,5/S	1,5 – 2,5	brass	tin	spool	1163250010	20	8,5	8,7	5	0,4
6,3/A-2,5/S	1,5 – 2,5	brass	tin	cut	1163250011	20	8,5	8,7	5	0,4



TAB TERMINALS FOR HOUSING

type 6,3/E-1/A

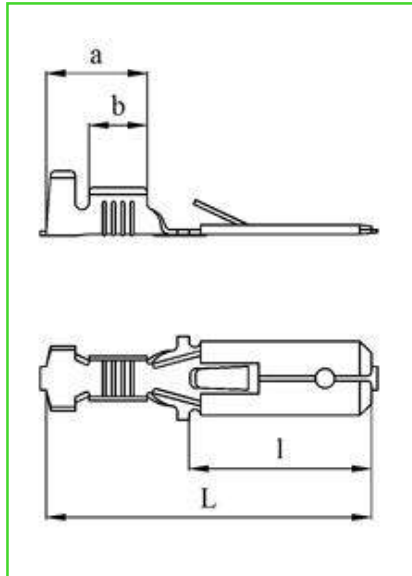
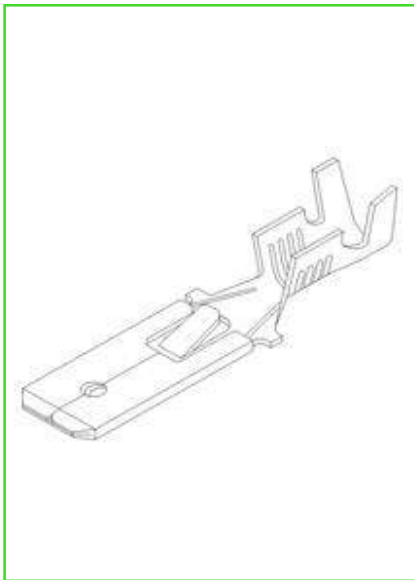


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/E-1/A	0,5 – 1,0	brass	-	spool	1363100000	28	15,8	8,3	4,1	0,4
6,3/E-1/A	0,5 – 1,0	brass	-	cut	1363100001	28	15,8	8,3	4,1	0,4
6,3/E-1/A	0,5 – 1,0	brass	tin	spool	1363100010	28	15,8	8,3	4,1	0,4
6,3/E-1/A	0,5 – 1,0	brass	tin	cut	1363100011	28	15,8	8,3	4,1	0,4



TAB TERMINALS FOR HOUSING

type 6,3/E-1/B

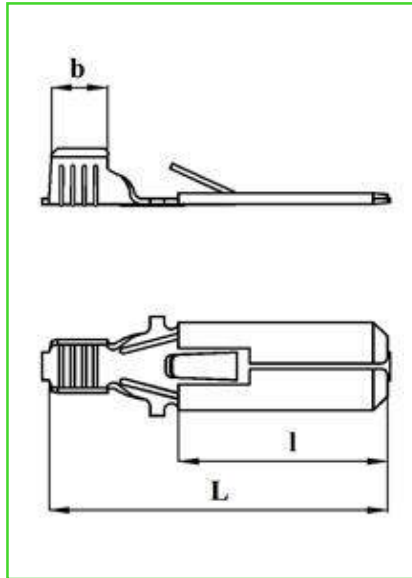


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/E-1/B	0,5 - 1,0	brass	-	spool	1363101000	28	15,8	8,3	4,1	0,4
6,3/E-1/B	0,5 - 1,0	brass	-	cut	1363101001	28	15,8	8,3	4,1	0,4
6,3/E-1/B	0,5 - 1,0	brass	tin	spool	1363101010	28	15,8	8,3	4,1	0,4
6,3/E-1/B	0,5 - 1,0	brass	tin	cut	1363101011	28	15,8	8,3	4,1	0,4



TAB TERMINALS FOR HOUSING

type 6,3/E1-2,5/A

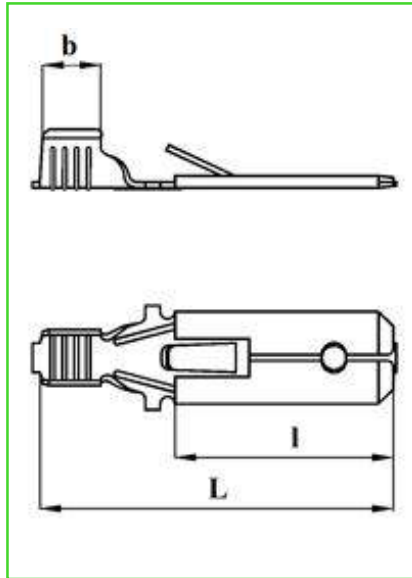


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions			Th.
						L	l	a	
6,3/E1-2,5/A	1,5 - 2,5	brass	-	cut	1363252001	24	15,8	8,3	0,4
6,3/E1-2,5/A	1,5 - 2,5	brass	tin	cut	1363252011	24	15,8	8,3	0,4



TAB TERMINALS FOR HOUSING

type 6,3/E1-2,5/B

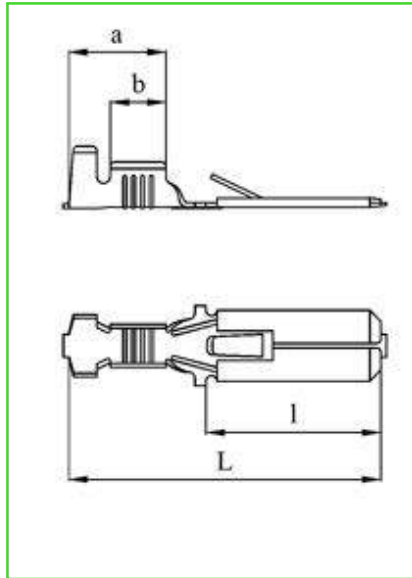


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions			Th.
						L	l	a	
6,3/E1-2,5/B	1,5 - 2,5	brass	-	cut	1363253001	24	15,8	8,3	0,4
6,3/E1-2,5/B	1,5 - 2,5	brass	tin	cut	1363253011	24	15,8	8,3	0,4



TAB TERMINALS FOR HOUSING

type 6,3/E-2,5/A

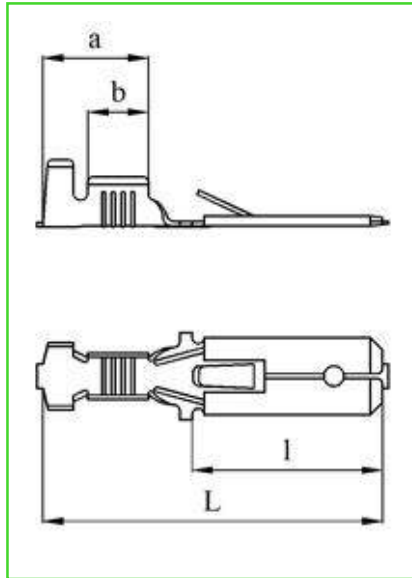
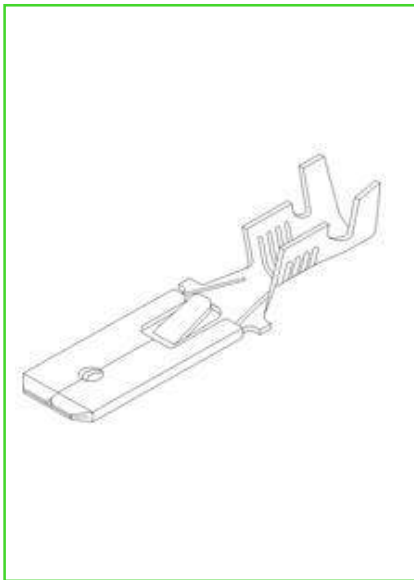


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/E-2,5/A	1,5 – 2,5	brass	-	spool	1363250000	28	15,7	8,3	4,1	0,4
6,3/E-2,5/A	1,5 – 2,5	brass	-	cut	1363250001	28	15,7	8,3	4,1	0,4
6,3/E-2,5/A	1,5 – 2,5	brass	tin	spool	1363250010	28	15,7	8,3	4,1	0,4
6,3/E-2,5/A	1,5 – 2,5	brass	tin	cut	1363250011	28	15,7	8,3	4,1	0,4



TAB TERMINALS FOR HOUSING

type 6,3/E-2,5/B

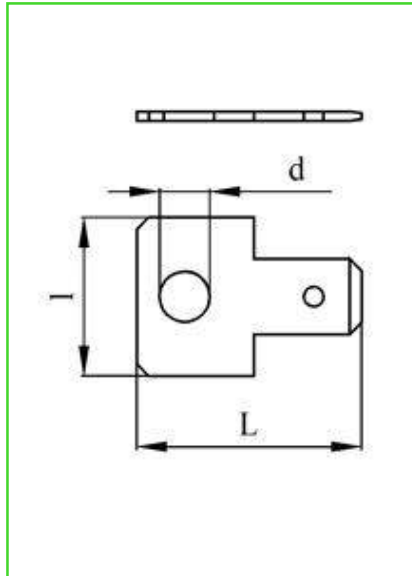


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
6,3/E-2,5/B	1,5 – 2,5	brass	-	spool	1363251000	26	15,7	8,3	4,1	0,4
6,3/E-2,5/B	1,5 – 2,5	brass	-	cut	1363251001	26	15,7	8,3	4,1	0,4
6,3/E-2,5/B	1,5 – 2,5	brass	tin	spool	1363251010	26	15,7	8,3	4,1	0,4
6,3/E-2,5/B	1,5 – 2,5	brass	tin	cut	1363251011	26	15,7	8,3	4,1	0,4



TAB TERMINALS WITH HOLE

type 6,3/W-4/A

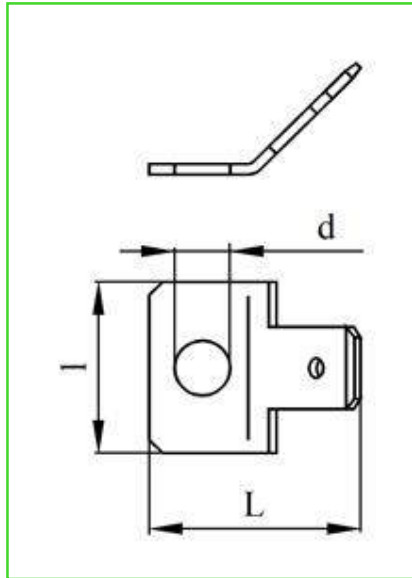
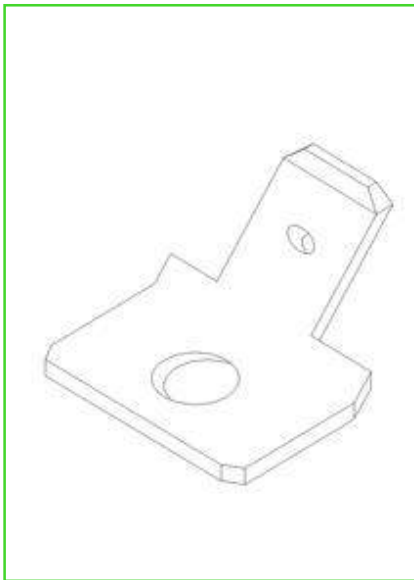


Type	Material	Surface	Made	Part numbers	Dimensions			Th.
					d	L	l	
6,3/W-4/A	brass	-	cut	1263420001	4,2	18,8	13,2	0,8
6,3/W-4/A	steel	-	cut	1263420201	4,2	18,8	13,2	0,8
6,3/W-4/A	steel	nickel	cut	1263420221	4,2	18,8	13,2	0,8



TAB TERMINALS WITH HOLE

type 6,3/W-4/B

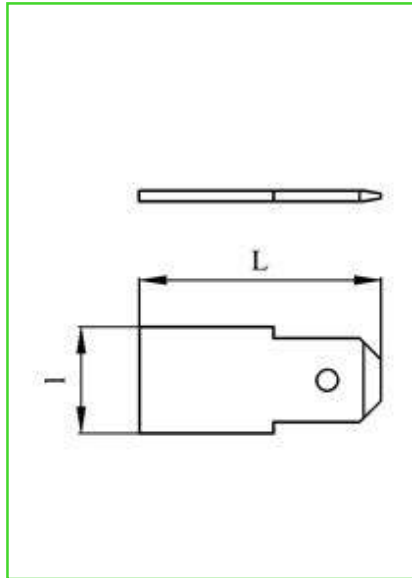
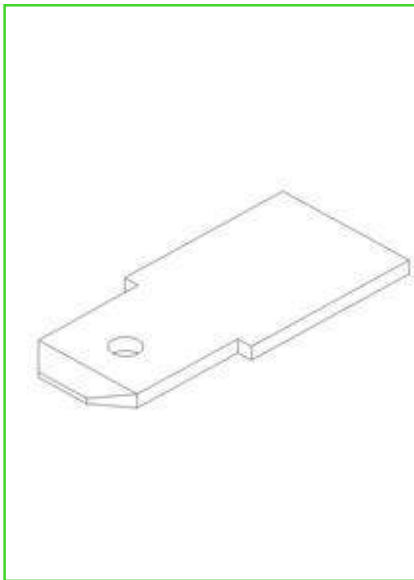


Type	Material	Surface	Made	Part numbers	Dimensions			Th.
					d	L	l	
6,3/W-4/B	brass	-	cut	1263421001	4,2	8	13,2	0,8
6,3/W-4/B	steel	-	cut	1263421201	4,2	8	13,2	0,8
6,3/W-4/B	steel	nickel	cut	1263421221	4,2	8	13,2	0,8



TAB TERMINALS FOR WELDING

type 6,3/WA/A

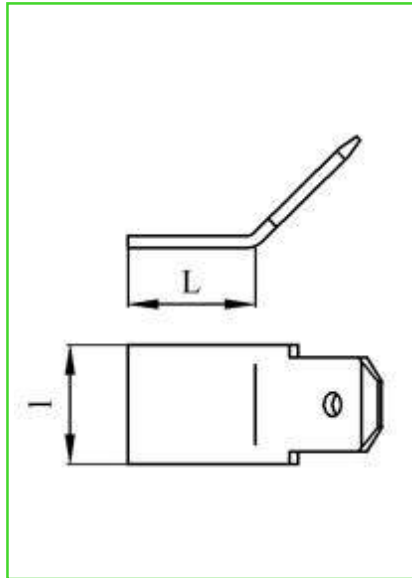
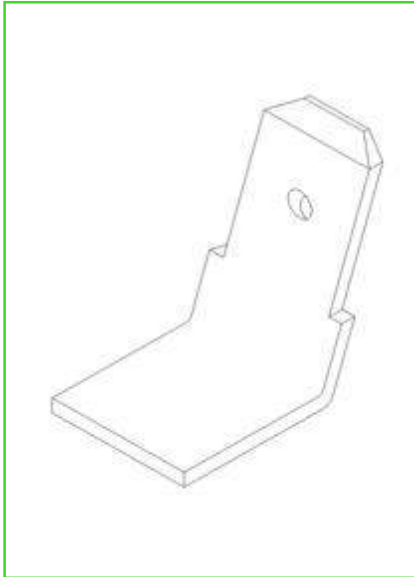


Type	Material	Surface	Made	Part numbers	Dimensions		Th.
					L	l	
6,3/WA/A	brass	-	cut	1263010001	18	8	0,8
6,3/WA/A	steel	-	cut	1263010201	18	8	0,8
6,3/WA/A	steel	nickel	cut	1263010221	18	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/WA/B

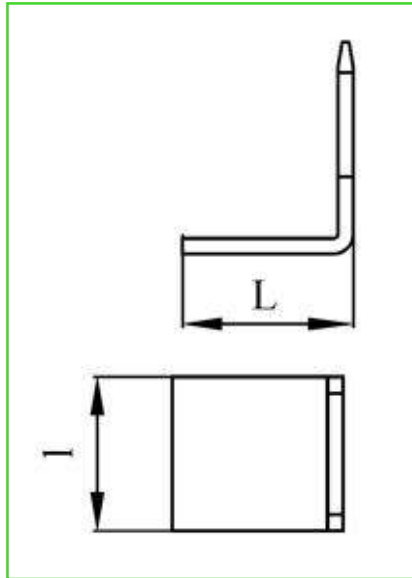
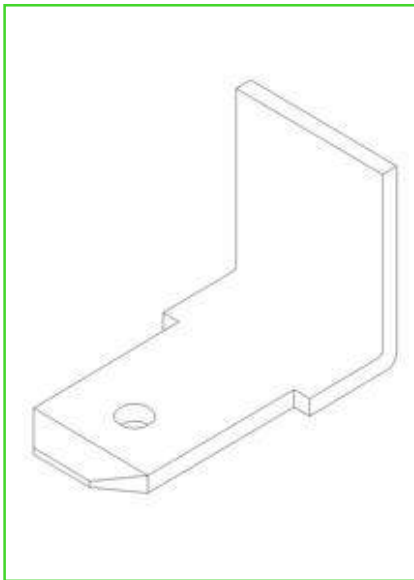


Type	Material	Surface	Made	Part numbers	Dimensions		Th.
					L	t	
6,3/WA/B	brass	-	cut	1263011001	8,4	8	0,8
6,3/WA/B	steel	-	cut	1263011201	8,4	8	0,8
6,3/WA/B	steel	nickel	cut	1263011221	8,4	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/WA/C

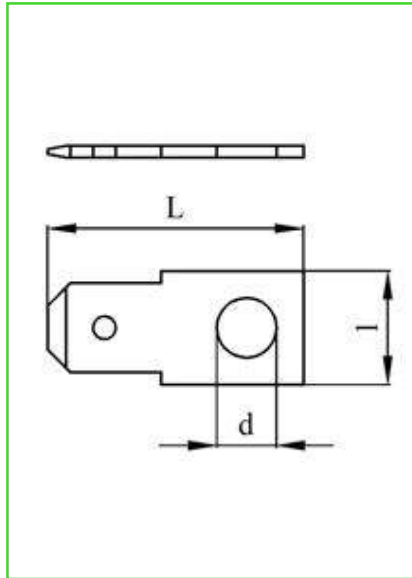
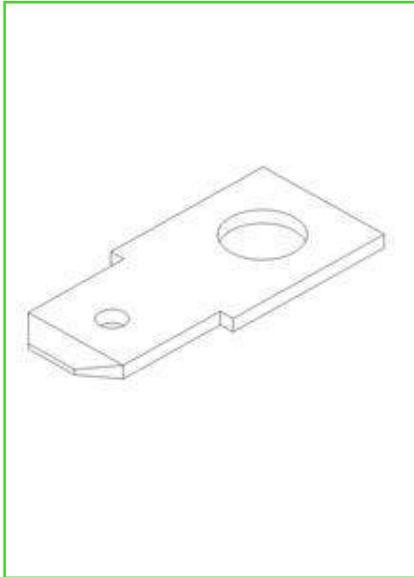


Type	Material	Surface	Made	Part numbers	Dimensions		Th.
					L	l	
6,3/WA/C	brass	-	cut	1263012001	8,7	8	0,8
6,3/WA/C	steel	-	cut	1263012201	8,7	8	0,8
6,3/WA/C	steel	nickel	cut	1263012221	8,7	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/W0-4/A

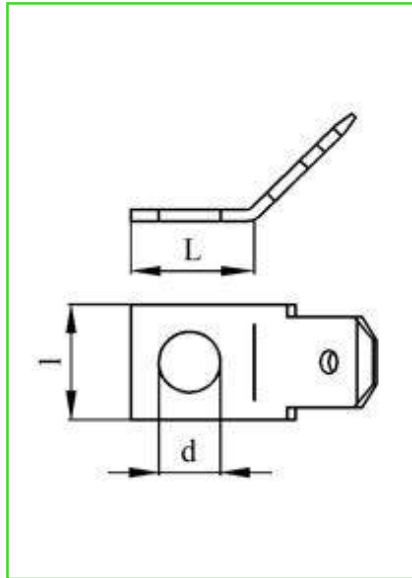
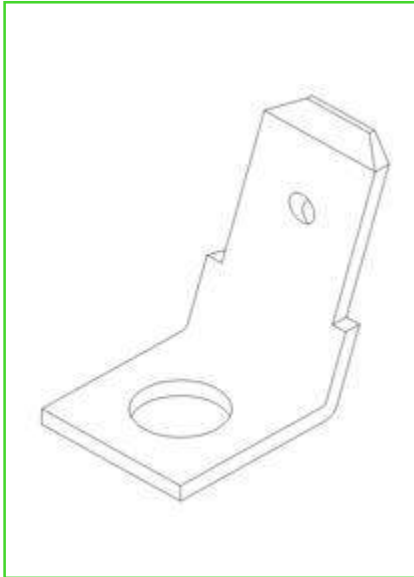


Type	Material	Surface	Made	Part numbers	Dimensions			Th.
					d	L	l	
6,3/W0-4/A	brass	-	cut	1263410001	4,2	18	8	0,8
6,3/W0-4/A	steel	-	cut	1263410201	4,2	18	8	0,8
6,3/W0-4/A	steel	nickel	cut	1263410221	4,2	18	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/W0-4/B

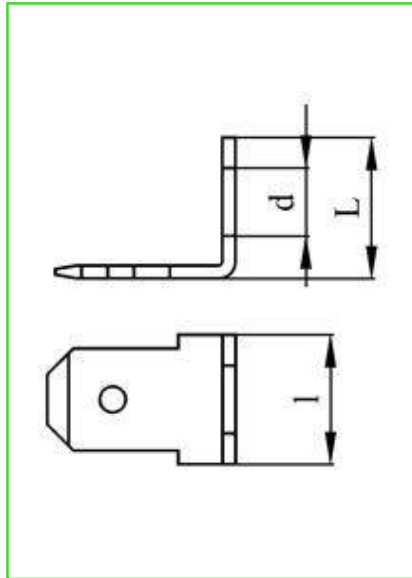
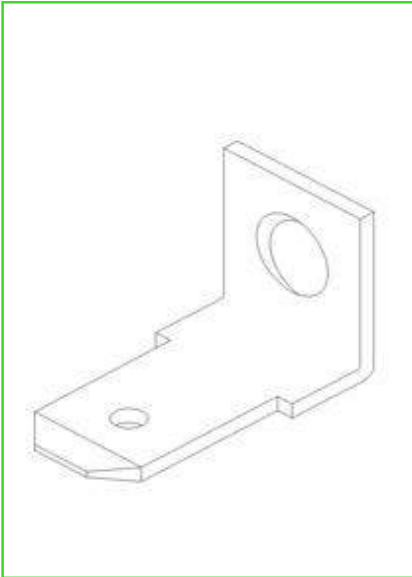


Type	Material	Surface	Made	Part numbers	Dimensions			Th.
					d	L	l	
6,3/W0-4/B	brass	-	cut	1263411001	4,2	8,4	8	0,8
6,3/W0-4/B	steel	-	cut	1263411201	4,2	8,4	8	0,8
6,3/W0-4/B	steel	nickel	cut	1263411221	4,2	8,4	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/WO-4/C

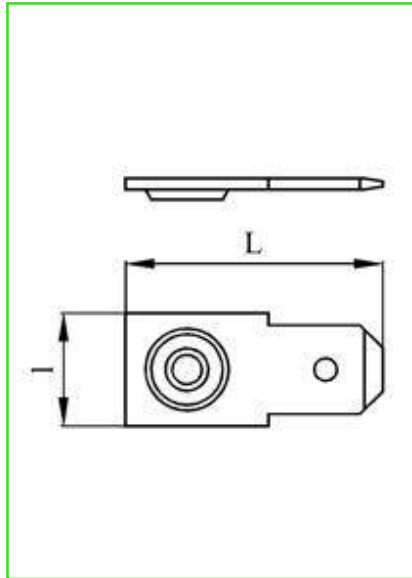


Type	Material	Surface	Made	Part numbers	Dimensions			Th.
					d	L	l	
6,3/WO-4/C	brass	-	cut	1263412001	4,2	8,7	8	0,8
6,3/WO-4/C	steel	-	cut	1263412201	4,2	8,7	8	0,8
6,3/WO-4/C	steel	nickel	cut	1263412221	4,2	8,7	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/WZ/A

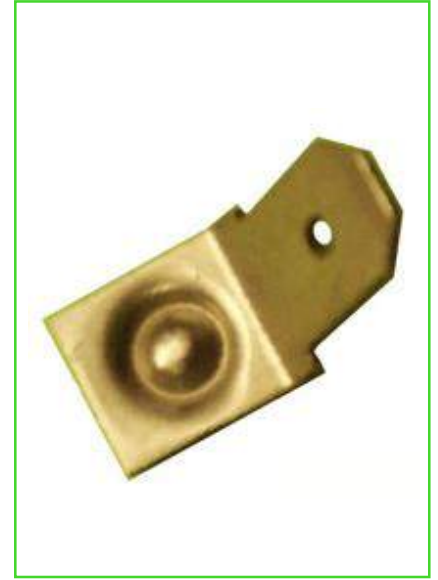
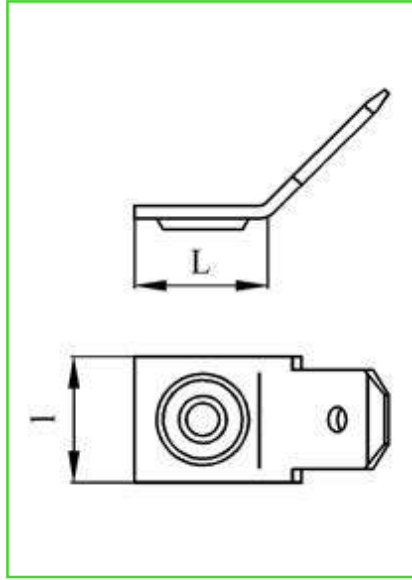
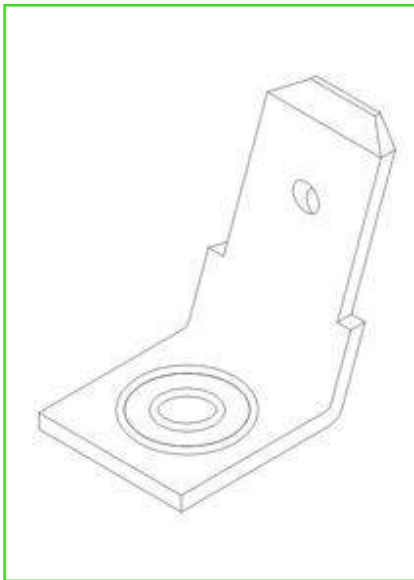


Type	Material	Surface	Made	Part numbers	Dimensions		Th.
					L	l	
6,3/WZ/A	brass	-	cut	1263000001	18	8	0,8
6,3/WZ/A	steel	-	cut	1263000201	18	8	0,8
6,3/WZ/A	steel	nickel	cut	1263000221	18	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/WZ/B

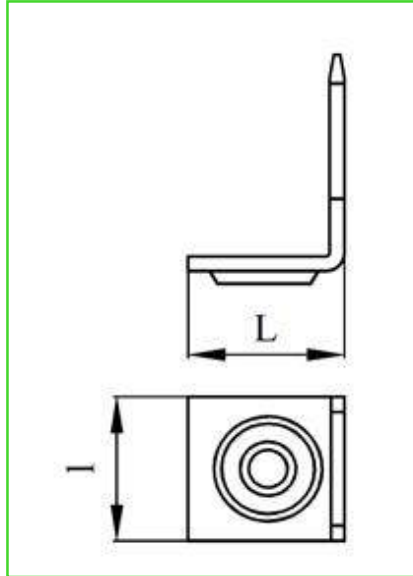
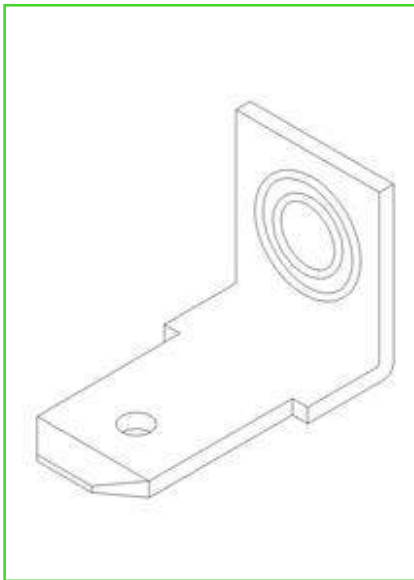


Type	Material	Surface	Made	Part numbers	Dimensions		Th.
					L	l	
6,3/WZ/B	brass	-	cut	1263001001	8,4	8	0,8
6,3/WZ/B	steel	-	cut	1263001201	8,4	8	0,8
6,3/WZ/B	steel	nickel	cut	1263001221	8,4	8	0,8



TAB TERMINALS FOR WELDING

type 6,3/WZ/C



Type	Material	Surface	Made	Part numbers	Dimensions		Th.
					L	l	
6,3/WZ/C	brass	-	cut	1263002001	8,4	8	0,8
6,3/WZ/C	steel	-	cut	1263002201	8,4	8	0,8
6,3/WZ/C	steel	nickel	cut	1263002221	8,4	8	0,8



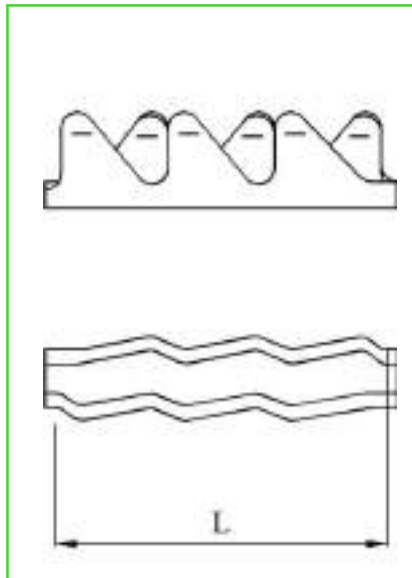
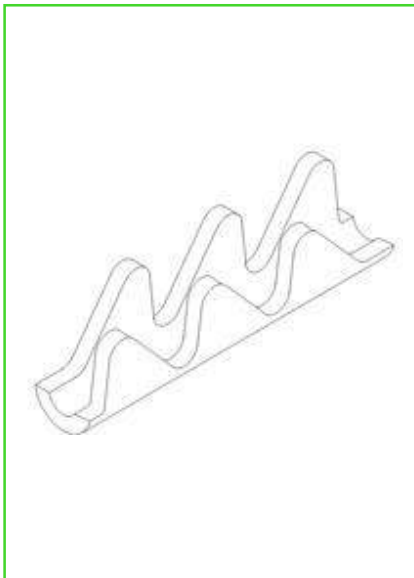


Prototyping Unit

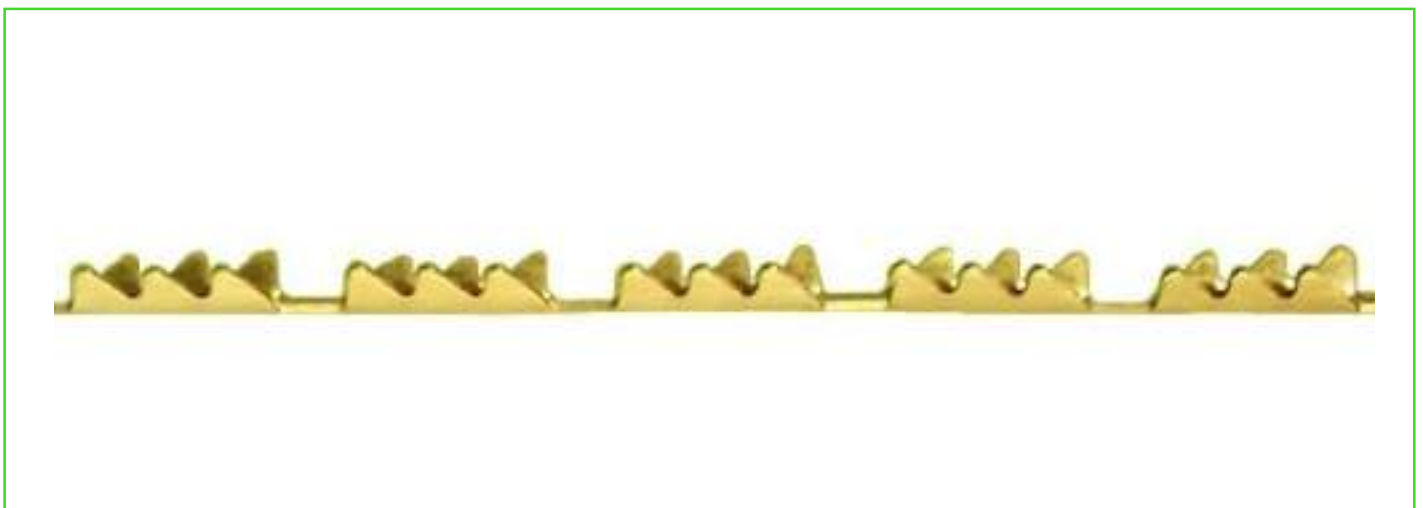
Wire pins

WIRE PINS

type KZ 0,2-0,35

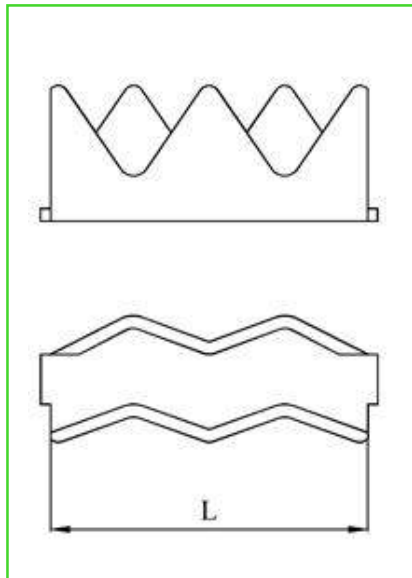
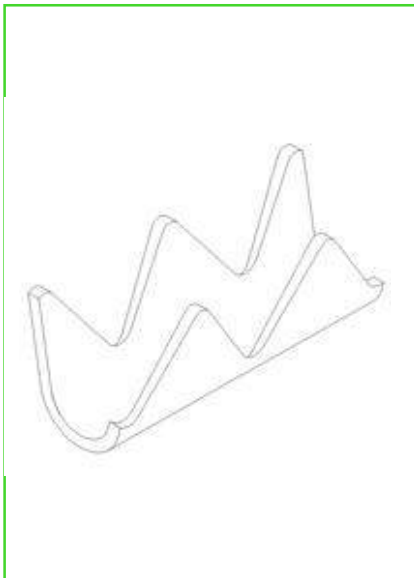


Type	Wire size range	Material	Surface	Made	Part numbers	Dimm.	Th.
						L	
KZ 0,2-0,35	0,2 – 0,35	brass	-	spool	2060030000	6	0,25
KZ 0,2-0,35	0,2 – 0,35	brass	tin	spool	2060030010	6	0,25

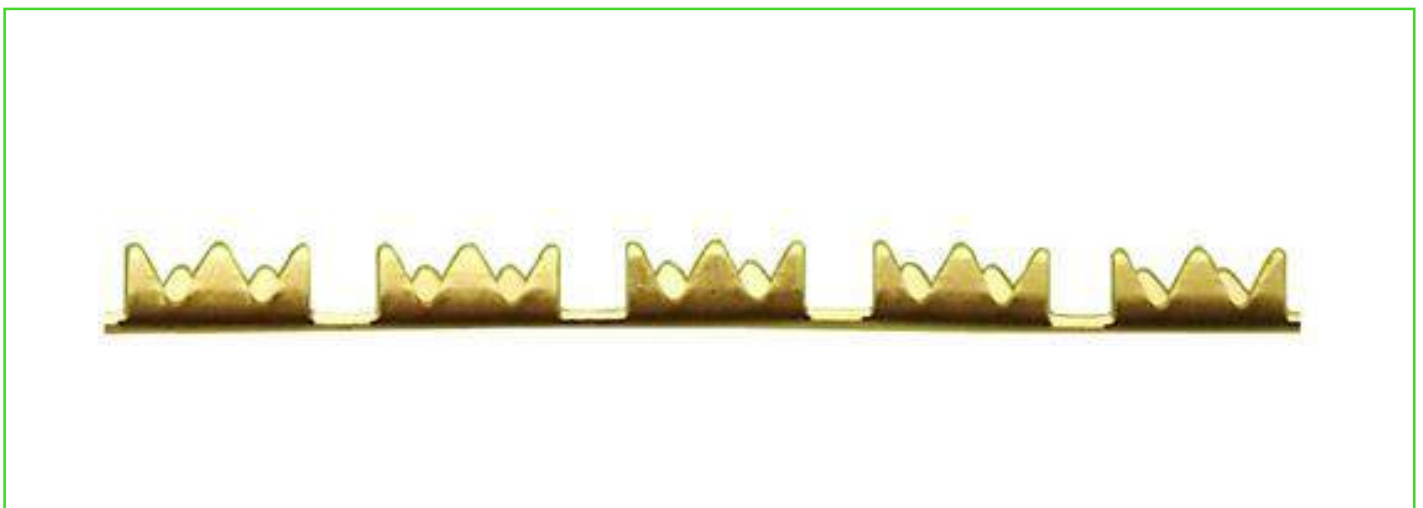


WIRE PINS

type KZ 0,5-1

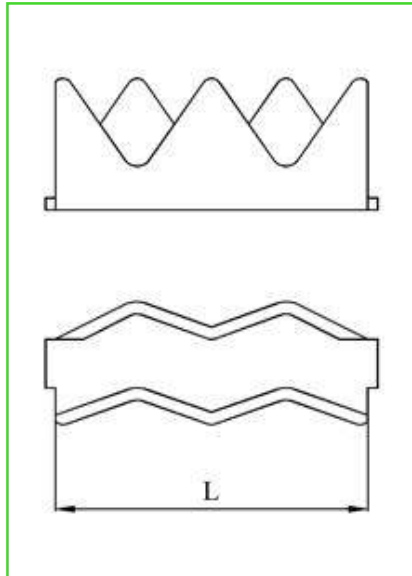
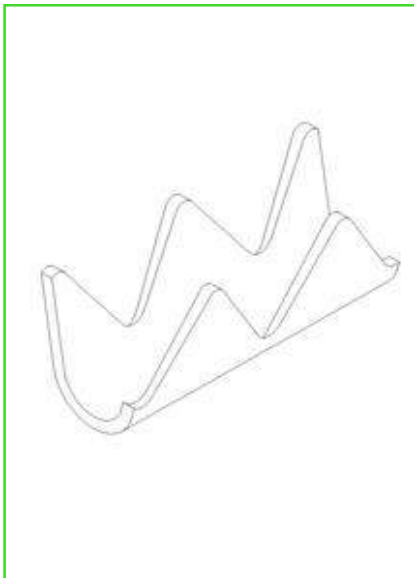


Type	Wire size range	Material	Surface	Made	Part numbers	Dimm. L	Th.
KZ 0,5 - 1	0,5 - 1	brass	-	spool	2063100000	6,3	0,25
KZ 0,5 - 1	0,5 - 1	brass	tin	spool	2063100010	6,3	0,25
KZ 0,5 - 1	0,5 - 1	brass	-	spool	2063101000	6,3	0,35
KZ 0,5 - 1	0,5 - 1	brass	tin	spool	2063101010	6,3	0,35



WIRE PINS

type KZ 1,5-2,5

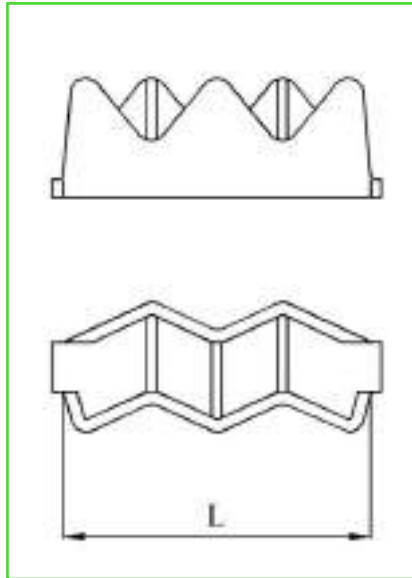
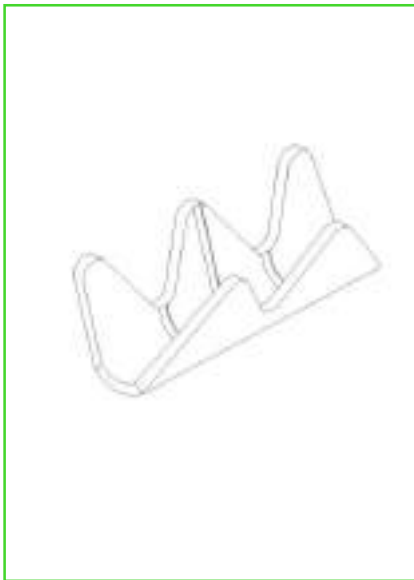


Type	Wire size range	Material	Surface	Made	Part numbers	Dimm. L	Th.
KZ 1,5 - 2,5	1,5 - 2,5	brass	-	spool	2063250000	6,3	0,25
KZ 1,5 - 2,5	1,5 - 2,5	brass	tin	spool	2063250010	6,3	0,25
KZ 1,5 - 2,5	1,5 - 2,5	brass	-	spool	2063251000	6,3	0,35
KZ 1,5 - 2,5	1,5 - 2,5	brass	tin	spool	2063251010	6,3	0,35

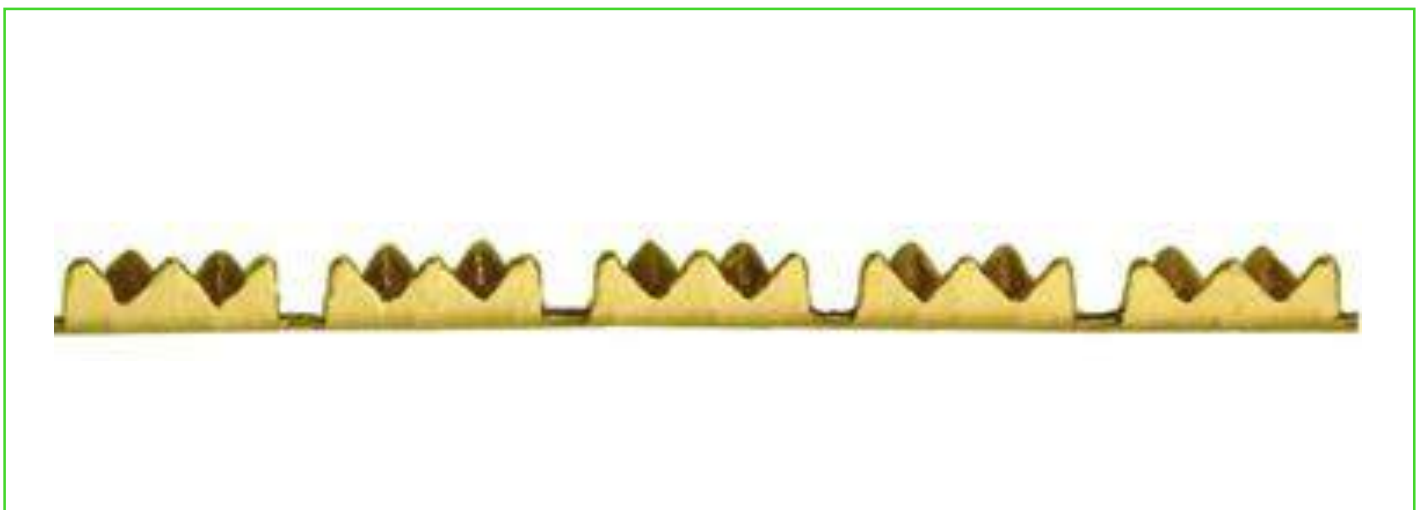


WIRE PINS

type KZ 1

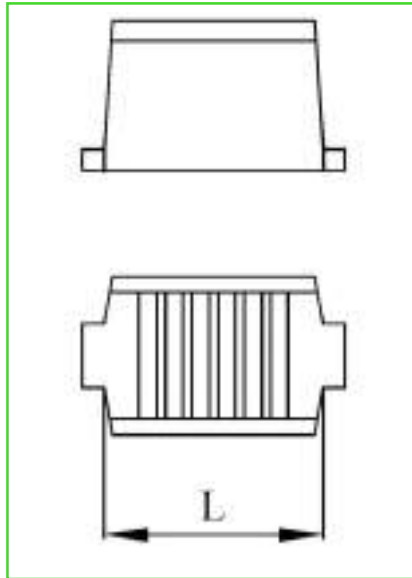


Type	Wire size range	Material	Surface	Made	Part numbers	Dimm.	Th.
						L	
KZ1	0,5 - 1	brass	-	spool	2161100000	6,1	0,25
KZ1	0,5 - 1	brass	tin	spool	2161100010	6,1	0,25



SPLICES END WIRE

type 300-1112

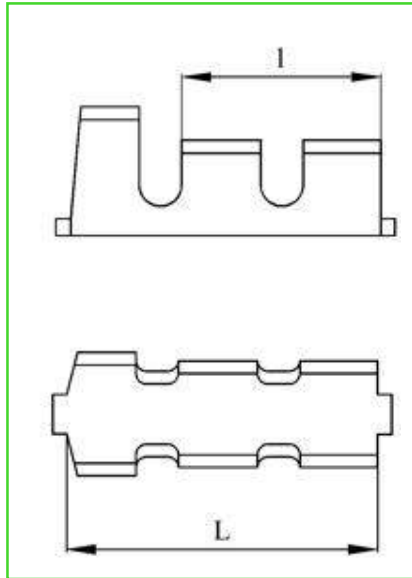
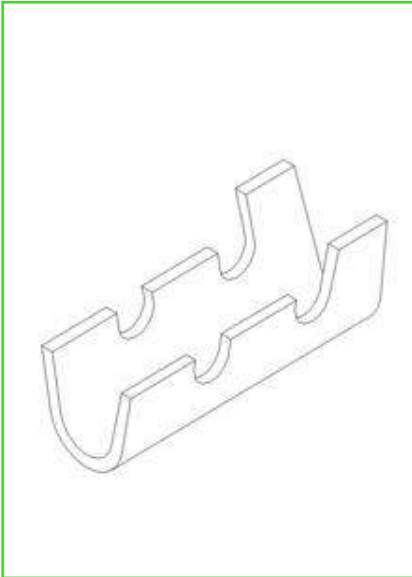


Type	Wire size range	Material	Surface	Made	Part numbers	Dimm.	Th.
						L	
300 - 1112	1,5 - 2,5	brass	-	spool	2250250000	5	0,5



WIRE PINS

type TKL



Type	Wire size range	Material	Surface	Made	Part numbers	Dimm.		Th.
						L	l	
TKL	1,5 – 2,5	brass	-	spool	2311250000	11	7	0,35
TKL	1,5 – 2,5	brass	tin	spool	2311250010	11	7	0,35



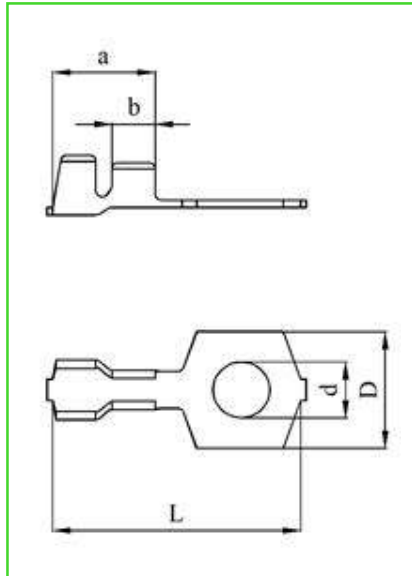


Prototyping Unit

Tongue terminals

TONGUE TERMINALS

type M3-0-1,5

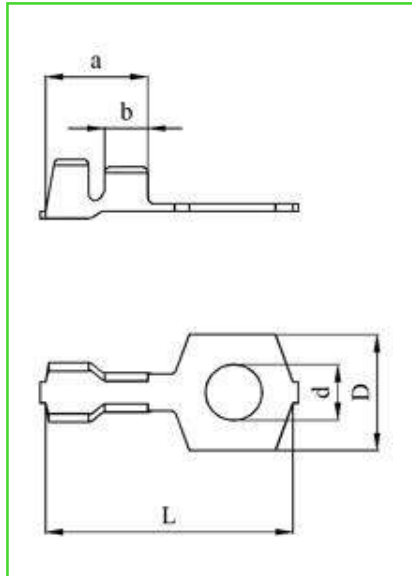


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M3-0-1,5	0,5 - 1,5	brass	-	spool	3031150000	3,1	9	21	9,5	4	0,5
M3-0-1,5	0,5 - 1,5	brass	-	cut	3031150001	3,1	9	21	9,5	4	0,5
M3-0-1,5	0,5 - 1,5	brass	tin	spool	3031150010	3,1	9	21	9,5	4	0,5
M3-0-1,5	0,5 - 1,5	brass	tin	cut	3031150011	3,1	9	21	9,5	4	0,5



TONGUE TERMINALS

type M3-0-3,5

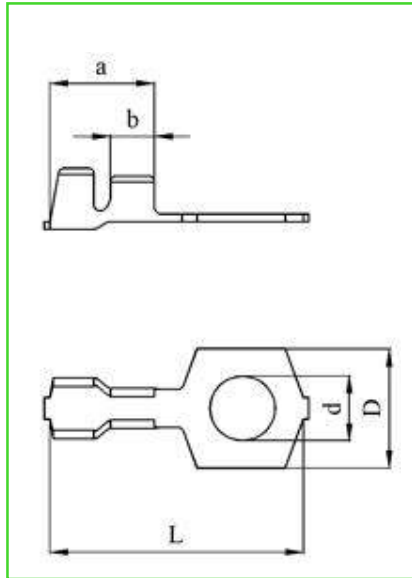


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M3-0-3,5	1,5 – 3,5	brass	-	spool	3031350000	3,1	9	21	9,5	4	0,5
M3-0-3,5	1,5 – 3,5	brass	-	cut	3031350001	3,1	9	21	9,5	4	0,5
M3-0-3,5	1,5 – 3,5	brass	tin	spool	3031350010	3,1	9	21	9,5	4	0,5
M3-0-3,5	1,5 – 3,5	brass	tin	cut	3031350011	3,1	9	21	9,5	4	0,5



TONGUE TERMINALS

type M4-0-1,5

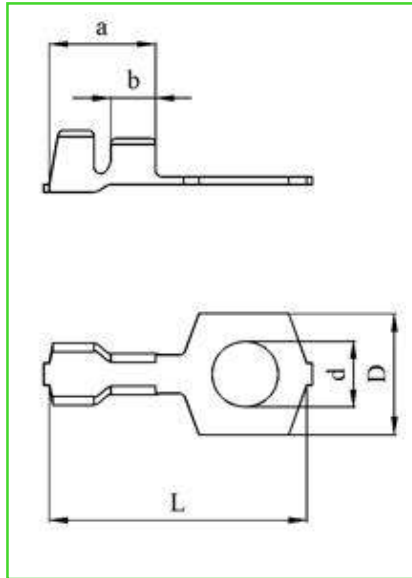


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M4-0-1,5	0,5 - 1,5	brass	-	spool	3042150000	4,2	9	21	9,5	4	0,5
M4-0-1,5	0,5 - 1,5	brass	-	cut	3042150001	4,2	9	21	9,5	4	0,5
M4-0-1,5	0,5 - 1,5	brass	tin	spool	3042150010	4,2	9	21	9,5	4	0,5
M4-0-1,5	0,5 - 1,5	brass	tin	cut	3042150011	4,2	9	21	9,5	4	0,5



TONGUE TERMINALS

type M4-0-2,5

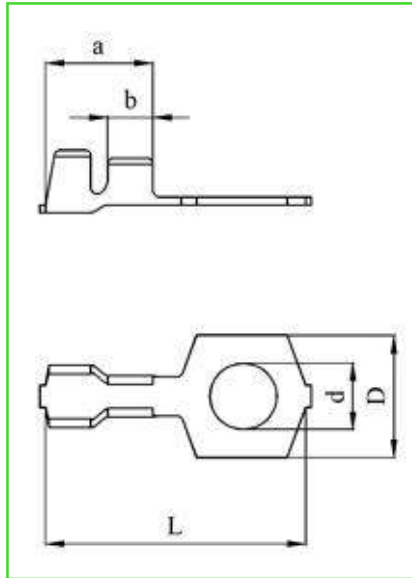


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M4-0-2,5	1-2,5	brass	-	spool	3042250000	4,2	9	21	9,5	4	0,7
M4-0-2,5	1-2,5	brass	-	cut	3042250001	4,2	9	21	9,5	4	0,7
M4-0-2,5	1-2,5	brass	tin	spool	3042250010	4,2	9	21	9,5	4	0,7
M4-0-2,5	1-2,5	brass	tin	cut	3042250011	4,2	9	21	9,5	4	0,7



TONGUE TERMINALS

type M4-0-3,5

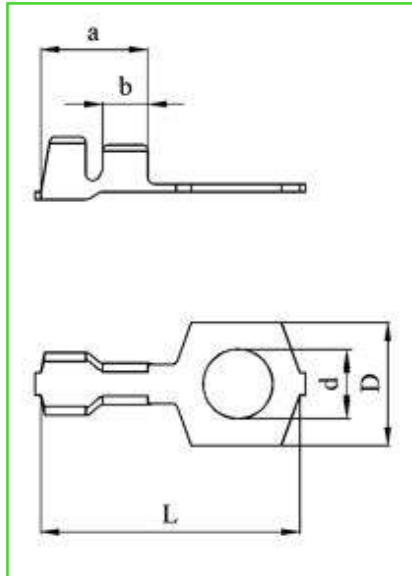
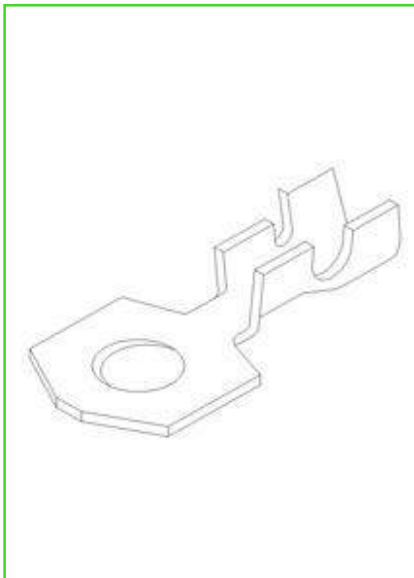


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M4-0-3,5	1,5 – 3,5	brass	-	spool	3042350000	4,2	9	21	9,5	4	0,5
M4-0-3,5	1,5 – 3,5	brass	-	cut	3042350001	4,2	9	21	9,5	4	0,5
M4-0-3,5	1,5 – 3,5	brass	tin	spool	3042350010	4,2	9	21	9,5	4	0,5
M4-0-3,5	1,5 – 3,5	brass	tin	cut	3042350011	4,2	9	21	9,5	4	0,5



TONGUE TERMINALS

type M5-0-1,5

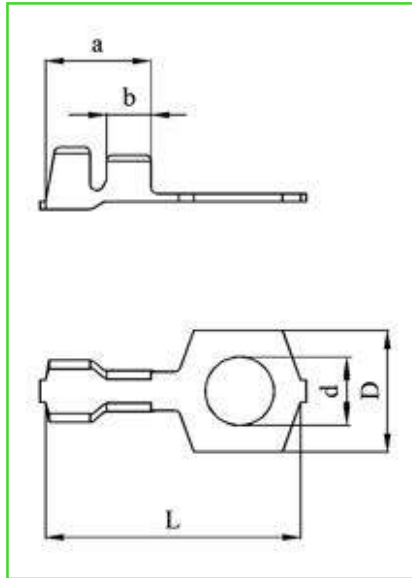
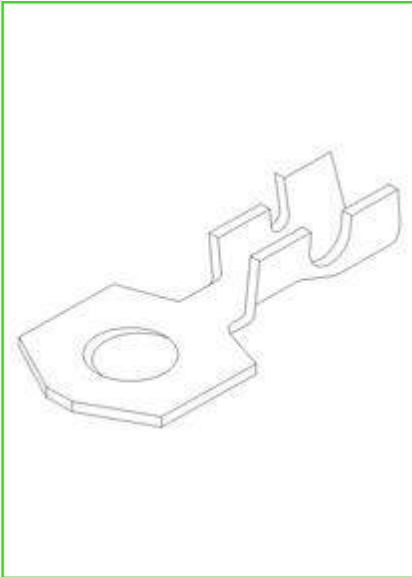


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M5-0-1,5	0,5 - 1,5	brass	-	spool	3052150000	5,2	11	23	9,5	4	0,5
M5-0-1,5	0,5 - 1,5	brass	-	cut	3052150001	5,2	11	23	9,5	4	0,5
M5-0-1,5	0,5 - 1,5	brass	tin	spool	3052150010	5,2	11	23	9,5	4	0,5
M5-0-1,5	0,5 - 1,5	brass	tin	cut	3052150011	5,2	11	23	9,5	4	0,5



TONGUE TERMINALS

type M5-0-2,5

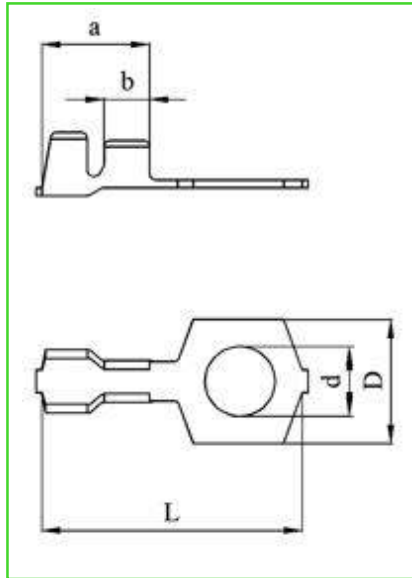
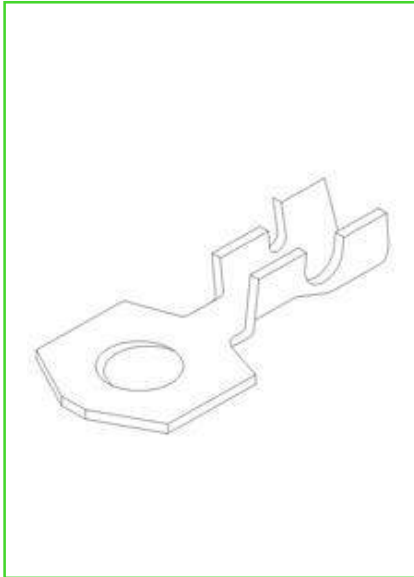


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M5-0-2,5	1-2,5	brass	-	spool	3052250000	5,2	11	23	9,5	4	0,7
M5-0-2,5	1-2,5	brass	-	cut	3052250001	5,2	11	23	9,5	4	0,7
M5-0-2,5	1-2,5	brass	tin	spool	3052250010	5,2	11	23	9,5	4	0,7
M5-0-2,5	1-2,5	brass	tin	cut	3052250011	5,2	11	23	9,5	4	0,7



TONGUE TERMINALS

type M5-0-3,5

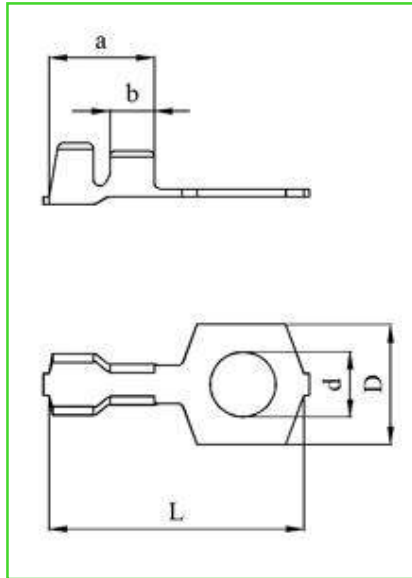


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M5-0-3,5	1,5 – 3,5	brass	-	spool	3052350000	5,2	11	23	9,5	4	0,5
M5-0-3,5	1,5 – 3,5	brass	-	cut	3052350001	5,2	11	23	9,5	4	0,5
M5-0-3,5	1,5 – 3,5	brass	tin	spool	3052350010	5,2	11	23	9,5	4	0,5
M5-0-3,5	1,5 – 3,5	brass	tin	cut	3052350011	5,2	11	23	9,5	4	0,5



TONGUE TERMINALS

type M5/M4-0-1,5

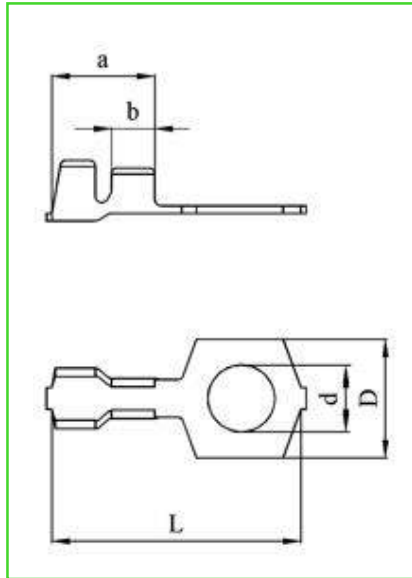


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M5/M4-0-1,5	0,5 - 1,5	brass	-	spool	3042151000	5,2	11	21	9,5	4	0,5
M5/M4-0-1,5	0,5 - 1,5	brass	-	cut	3042151001	5,2	11	21	9,5	4	0,5
M5/M4-0-1,5	0,5 - 1,5	brass	tin	spool	3042151010	5,2	11	21	9,5	4	0,5
M5/M4-0-1,5	0,5 - 1,5	brass	tin	cut	3042151011	5,2	11	21	9,5	4	0,5



TONGUE TERMINALS

type M6-0-1,5

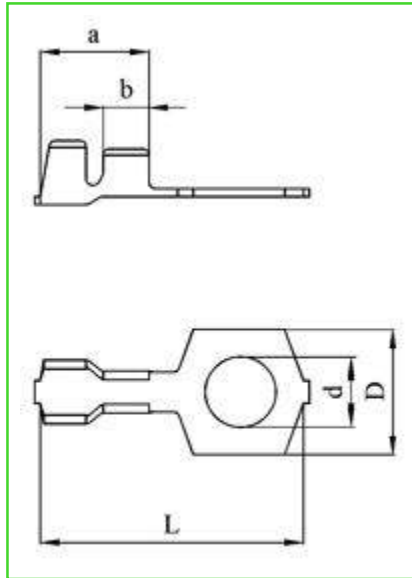


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M6-0-1,5	0,5 - 1,5	brass	-	spool	3062150000	6,2	11	23	9,5	4	0,5
M6-0-1,5	0,5 - 1,5	brass	-	cut	3062150001	6,2	11	23	9,5	4	0,5
M6-0-1,5	0,5 - 1,5	brass	tin	spool	3062150010	6,2	11	23	9,5	4	0,5
M6-0-1,5	0,5 - 1,5	brass	tin	cut	3062150011	6,2	11	23	9,5	4	0,5



TONGUE TERMINALS

type M6-0-2,5

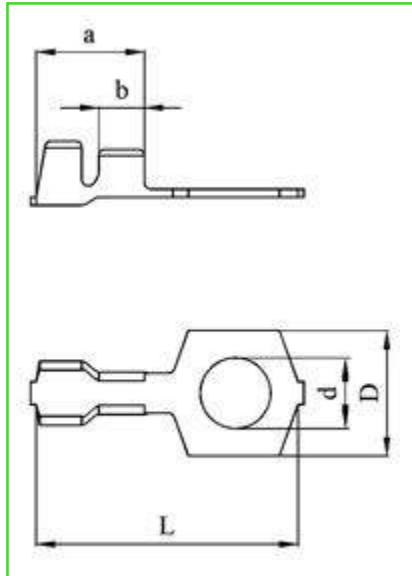


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M6-0-2,5	1-2,5	brass	-	spool	3062250000	6,2	11	23	9,5	4	0,7
M6-0-2,5	1-2,5	brass	-	cut	3062250001	6,2	11	23	9,5	4	0,7
M6-0-2,5	1-2,5	brass	tin	spool	3062250010	6,2	11	23	9,5	4	0,7
M6-0-2,5	1-2,5	brass	tin	cut	3062250011	6,2	11	23	9,5	4	0,7



TONGUE TERMINALS

type M6-0-3,5

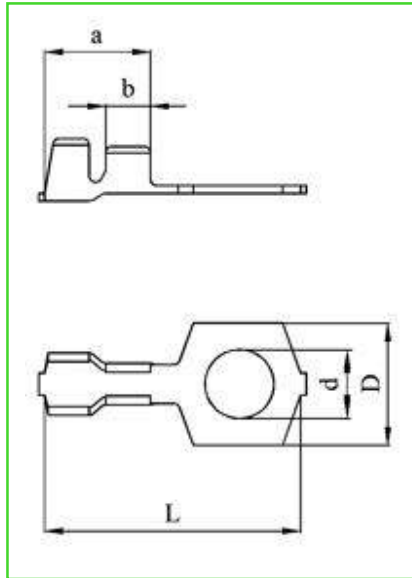


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M6-0-3,5	1,5 – 3,5	brass	-	spool	3062350000	6,2	11	23	9,5	4	0,5
M6-0-3,5	1,5 – 3,5	brass	-	cut	3062350001	6,2	11	23	9,5	4	0,5
M6-0-3,5	1,5 – 3,5	brass	tin	spool	3062350010	6,2	11	23	9,5	4	0,5
M6-0-3,5	1,5 – 3,5	brass	tin	cut	3062350011	6,2	11	23	9,5	4	0,5



TONGUE TERMINALS

type M8-0-1,5

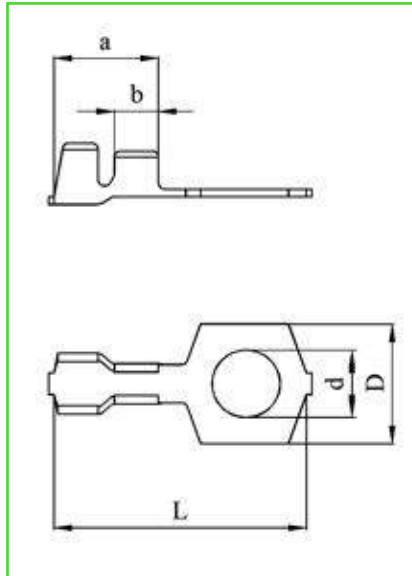


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M8-0-1,5	0,5 - 1,5	brass	-	spool	3082150000	8,2	11	23	9,5	4	0,5
M8-0-1,5	0,5 - 1,5	brass	-	cut	3082150001	8,2	11	23	9,5	4	0,5
M8-0-1,5	0,5 - 1,5	brass	tin	spool	3082150010	8,2	11	23	9,5	4	0,5
M8-0-1,5	0,5 - 1,5	brass	tin	cut	3082150011	8,2	11	23	9,5	4	0,5



TONGUE TERMINALS

type M8-0-3,5

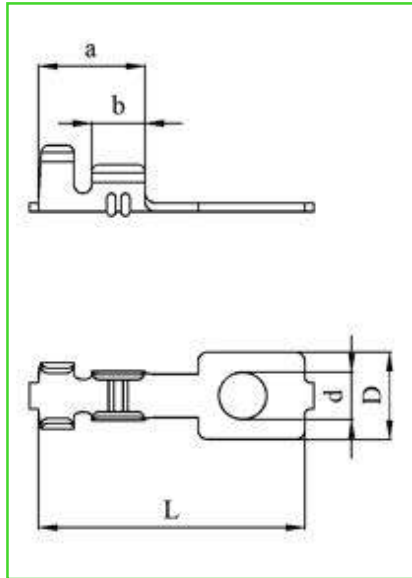


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
M8-0-3,5	1,5 – 3,5	brass	-	spool	3082350000	8,2	11	23	9,5	4	0,7
M8-0-3,5	1,5 – 3,5	brass	-	cut	3082350001	8,2	11	23	9,5	4	0,7
M8-0-3,5	1,5 – 3,5	brass	tin	spool	3082350010	8,2	11	23	9,5	4	0,7
M8-0-3,5	1,5 – 3,5	brass	tin	cut	3082350011	8,2	11	23	9,5	4	0,7



TONGUE TERMINALS

type N2,5-0-1

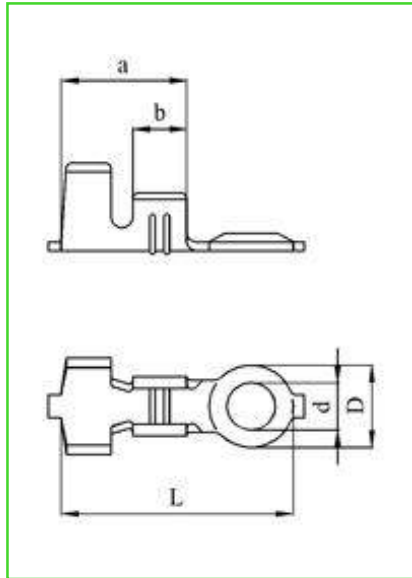
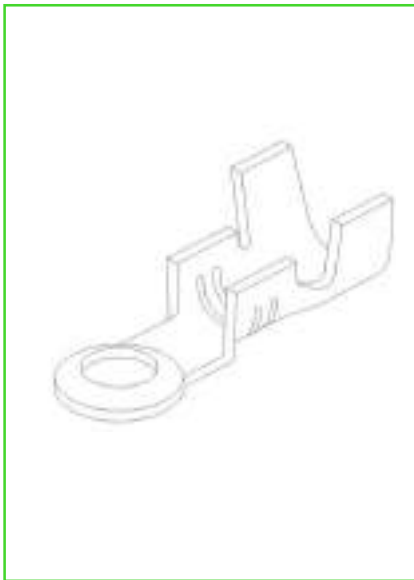


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
N2,5-0-1	0,5 - 1	brass	-	spool	3227100000	2,7	5	15	6	3	0,5
N2,5-0-1	0,5 - 1	brass	-	cut	3227100001	2,7	5	15	6	3	0,5
N2,5-0-1	0,5 - 1	brass	tin	spool	3227100010	2,7	5	15	6	3	0,5
N2,5-0-1	0,5 - 1	brass	tin	cut	3227100011	2,7	5	15	6	3	0,5



TONGUE TERMINALS

type N2,5-0-2,5

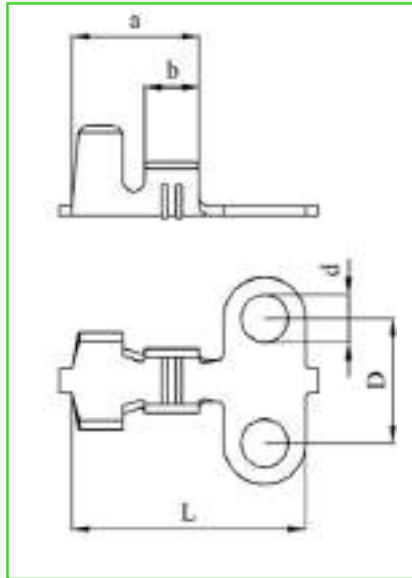
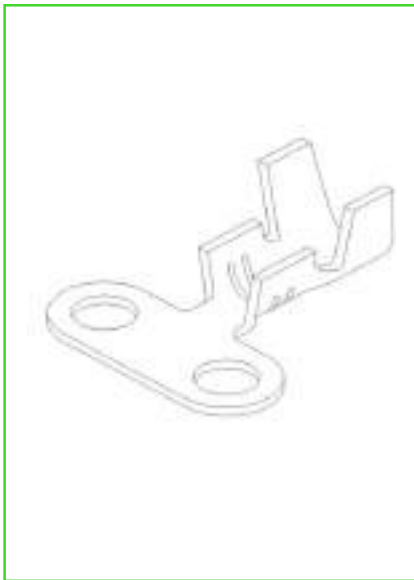


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
N2,5-0-2,5	1-2,5	brass	-	spool	3327250000	2,7	4,7	12,85	7	3	0,5
N2,5-0-2,5	1-2,5	brass	-	cut	3327250001	2,7	4,7	12,85	7	3	0,5
N2,5-0-2,5	1-2,5	brass	tin	spool	3327250010	2,7	4,7	12,85	7	3	0,5
N2,5-0-2,5	1-2,5	brass	tin	cut	3327250011	2,7	4,7	12,85	7	3	0,5



TONGUE TERMINALS

type 2N2,5-0-1

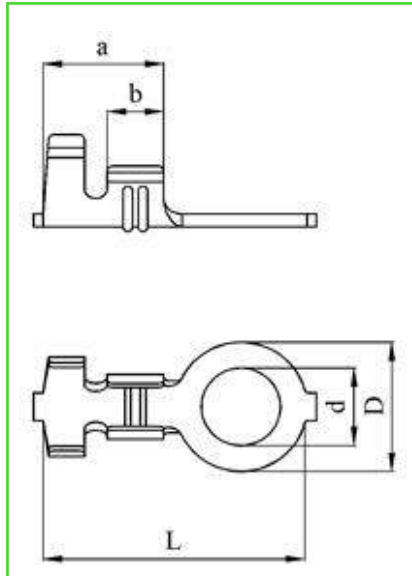


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
2N2,5-0-1	0,5 - 1	brass	-	spool	3426100000	2,6	6,8	12,85	7	3	0,5
2N2,5-0-1	0,5 - 1	brass	-	cut	3426100001	2,6	6,8	12,85	7	3	0,5
2N2,5-0-1	0,5 - 1	brass	tin	spool	3426100010	2,6	6,8	12,85	7	3	0,5
2N2,5-0-1	0,5 - 1	brass	tin	cut	3426100011	2,6	6,8	12,85	7	3	0,5



RING TONGUE TERMINALS

type O/M3-0-2,5

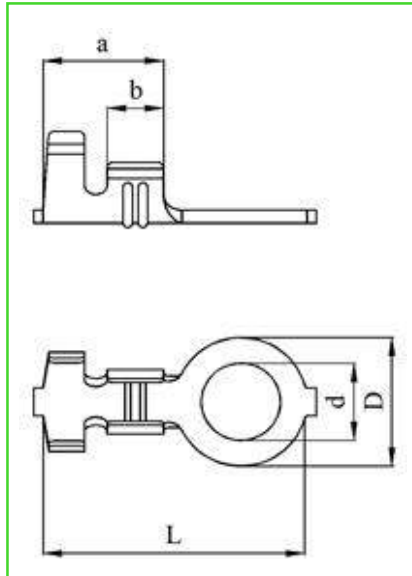


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
O/M3-0-2,5	1-2,5	brass	-	spool	3132250000	3,2	7	14	6,4	3	0,5
O/M3-0-2,5	1-2,5	brass	-	cut	3132250001	3,2	7	14	6,4	3	0,5
O/M3-0-2,5	1-2,5	brass	tin	spool	3132250010	3,2	7	14	6,4	3	0,5
O/M3-0-2,5	1-2,5	brass	tin	cut	3132250011	3,2	7	14	6,4	3	0,5



RING TONGUE TERMINALS

type 0/M3,5-0-2,5

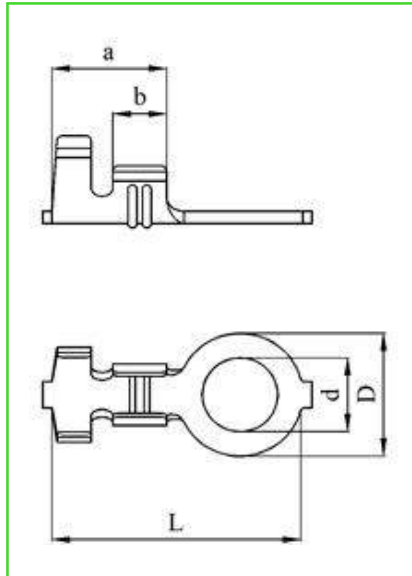


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
0/M3,5-0-2,5	1-2,5	brass	-	spool	3136250000	3,6	7	14	6,4	3	0,5
0/M3,5-0-2,5	1-2,5	brass	-	cut	3136250001	3,6	7	14	6,4	3	0,5
0/M3,5-0-2,5	1-2,5	brass	tin	spool	3136250010	3,6	7	14	6,4	3	0,5
0/M3,5-0-2,5	1-2,5	brass	tin	cut	3136250011	3,6	7	14	6,4	3	0,5



RING TONGUE TERMINALS

type O/M4-0-2,5

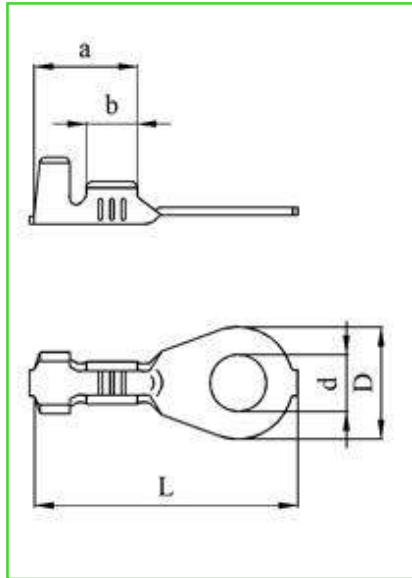


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
O/M4-0-2,5	1-2,5	brass	-	spool	3142250000	4,2	7	14	6,4	3	0,5
O/M4-0-2,5	1-2,5	brass	-	cut	3142250001	4,2	7	14	6,4	3	0,5
O/M4-0-2,5	1-2,5	brass	tin	spool	3142250010	4,2	7	14	6,4	3	0,5
O/M4-0-2,5	1-2,5	brass	tin	cut	3142250011	4,2	7	14	6,4	3	0,5



TONGUE TERMINALS

type P/M4-0-1,5

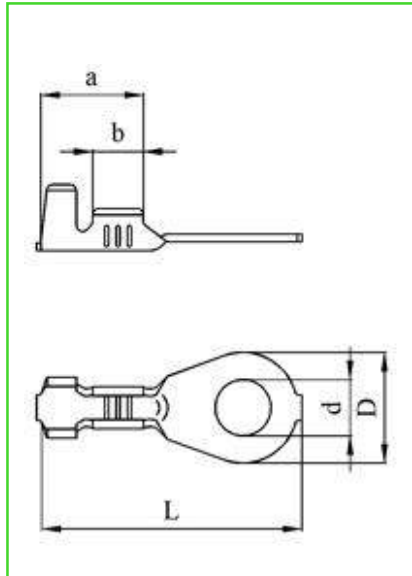


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
P/M4-0-1,5	0,5 – 1,5	brass	-	spool	3643150000	4,3	8,7	20,3	8,1	4	0,6
P/M4-0-1,5	0,5 – 1,5	brass	-	cut	3643150001	4,3	8,7	20,3	8,1	4	0,6
P/M4-0-1,5	0,5 – 1,5	brass	tin	spool	3643150010	4,3	8,7	20,3	8,1	4	0,6
P/M4-0-1,5	0,5 – 1,5	brass	tin	cut	3643150011	4,3	8,7	20,3	8,1	4	0,6



TONGUE TERMINALS

type P/M4-0-3,5

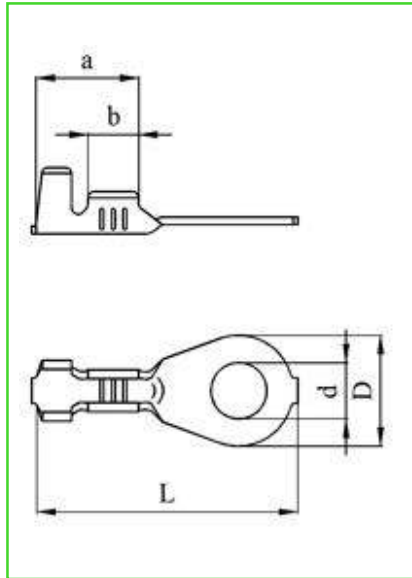


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
P/M4-0-3,5	1,5 – 3,5	brass	-	spool	3643350000	4,3	8,7	20,3	8,1	4	0,6
P/M4-0-3,5	1,5 – 3,5	brass	-	cut	3643350001	4,3	8,7	20,3	8,1	4	0,6
P/M4-0-3,5	1,5 – 3,5	brass	tin	spool	3643350010	4,3	8,7	20,3	8,1	4	0,6
P/M4-0-3,5	1,5 – 3,5	brass	tin	cut	3643350011	4,3	8,7	20,3	8,1	4	0,6



TONGUE TERMINALS

type P/M5-0-1,5

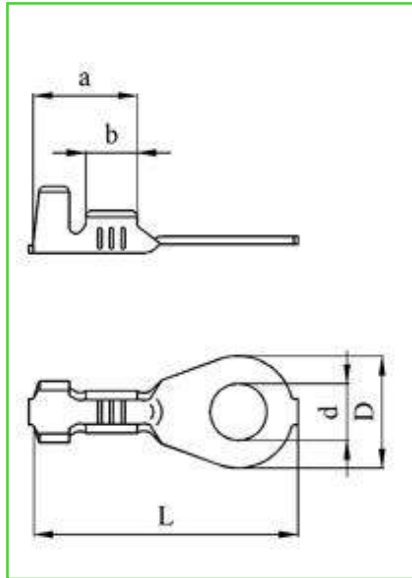


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
P/M5-0-1,5	0,5 – 1,5	brass	-	spool	3653150000	5,3	8,7	20,3	8,1	4	0,6
P/M5-0-1,5	0,5 – 1,5	brass	-	cut	3653150001	5,3	8,7	20,3	8,1	4	0,6
P/M5-0-1,5	0,5 – 1,5	brass	tin	spool	3653150010	5,3	8,7	20,3	8,1	4	0,6
P/M5-0-1,5	0,5 – 1,5	brass	tin	cut	3653150011	5,3	8,7	20,3	8,1	4	0,6



TONGUE TERMINALS

type P/M5-0-3,5

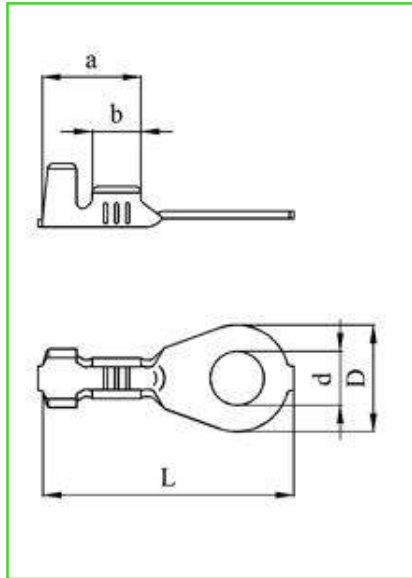


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
P/M5-0-3,5	1,5 – 3,5	brass	-	spool	3653350000	5,3	8,7	20,3	8,1	4	0,6
P/M5-0-3,5	1,5 – 3,5	brass	-	cut	3653350001	5,3	8,7	20,3	8,1	4	0,6
P/M5-0-3,5	1,5 – 3,5	brass	tin	spool	3653350010	5,3	8,7	20,3	8,1	4	0,6
P/M5-0-3,5	1,5 – 3,5	brass	tin	cut	3653350011	5,3	8,7	20,3	8,1	4	0,6



TONGUE TERMINALS

type P/M6-0-1,5

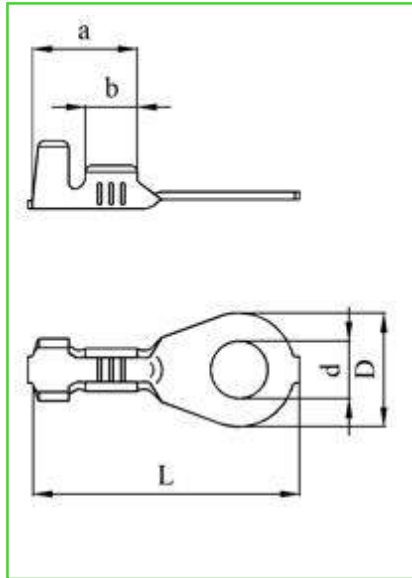


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
P/M6-0-1,5	0,5 - 1,5	brass	-	spool	3663150000	6,3	8,7	20,3	8,1	4	0,6
P/M6-0-1,5	0,5 - 1,5	brass	-	cut	3663150001	6,3	8,7	20,3	8,1	4	0,6
P/M6-0-1,5	0,5 - 1,5	brass	tin	spool	3663150010	6,3	8,7	20,3	8,1	4	0,6
P/M6-0-1,5	0,5 - 1,5	brass	tin	cut	3663150011	6,3	8,7	20,3	8,1	4	0,6



TONGUE TERMINALS

type P/M6-0-3,5



Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	D	L	a	b	
P/M6-0-3,5	1,5 – 3,5	brass	-	spool	3663350000	6,3	8,7	20,3	8,1	4	0,6
P/M6-0-3,5	1,5 – 3,5	brass	-	cut	3663350001	6,3	8,7	20,3	8,1	4	0,6
P/M6-0-3,5	1,5 – 3,5	brass	tin	spool	3663350010	6,3	8,7	20,3	8,1	4	0,6
P/M6-0-3,5	1,5 – 3,5	brass	tin	cut	3663350011	6,3	8,7	20,3	8,1	4	0,6



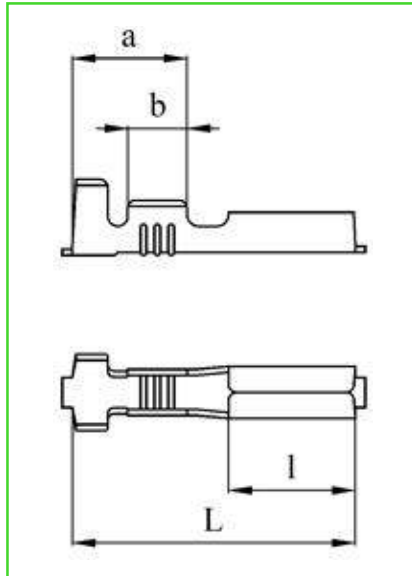


Prototyping Unit

Socket contacts

SOCKET CONTACTS

type 2/TS-0,5

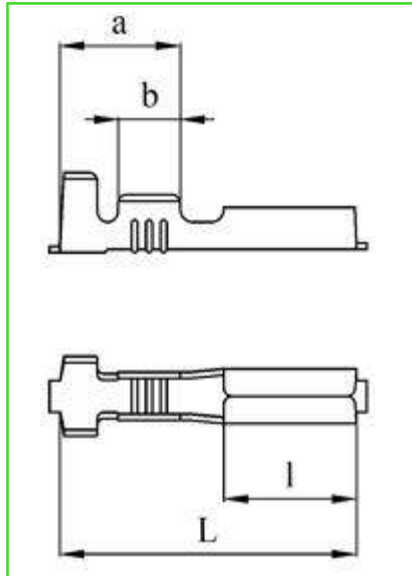
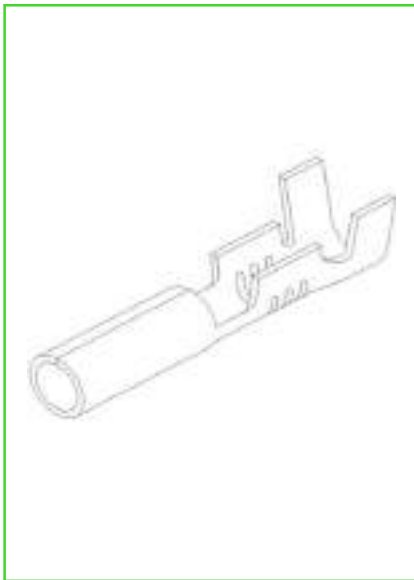


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	L	l	a	b	
2/TS-0,5	0,2 – 0,5	brass	-	spool	4020050000	2	14,3	6,4	5,8	3	0,25
2/TS-0,5	0,2 – 0,5	brass	-	cut	4020050001	2	14,3	6,4	5,8	3	0,25
2/TS-0,5	0,2 – 0,5	brass	tin	spool	4020050010	2	14,3	6,4	5,8	3	0,25
2/TS-0,5	0,2 – 0,5	brass	tin	cut	4020050011	2	14,3	6,4	5,8	3	0,25



SOCKET CONTACTS

type 2,1/TS-0,5

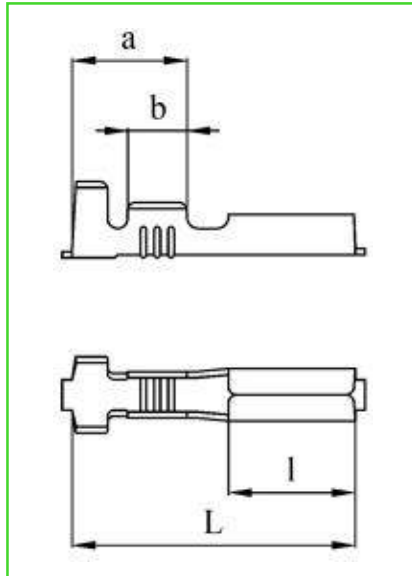
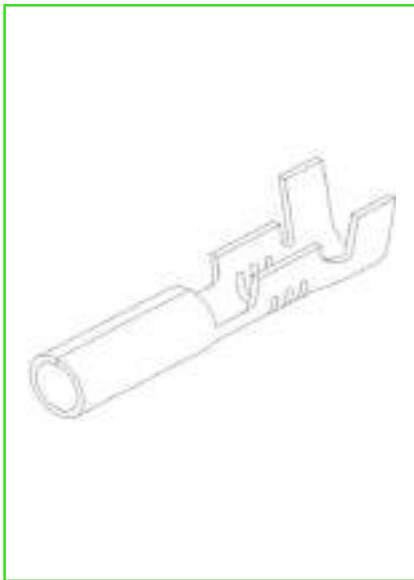


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	L	l	a	b	
2,1/TS-0,5	0,2 – 0,5	brass	-	spool	4021050000	2,2	14,3	6,4	5,8	3	0,25
2,1/TS-0,5	0,2 – 0,5	brass	-	cut	4021050001	2,2	14,3	6,4	5,8	3	0,25
2,1/TS-0,5	0,2 – 0,5	brass	tin	spool	4021050010	2,2	14,3	6,4	5,8	3	0,25
2,1/TS-0,5	0,2 – 0,5	brass	tin	cut	4021050011	2,2	14,3	6,4	5,8	3	0,25



SOCKET CONTACTS

type 2,2/TS-0,5

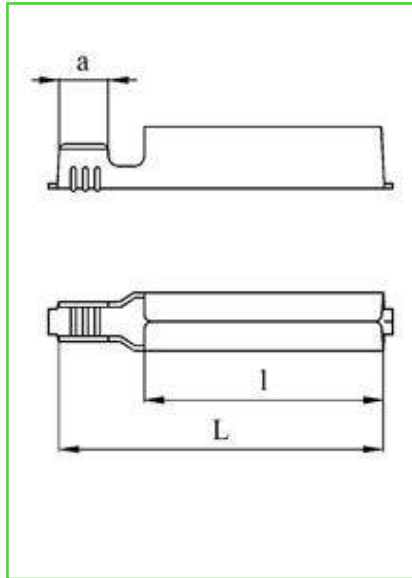
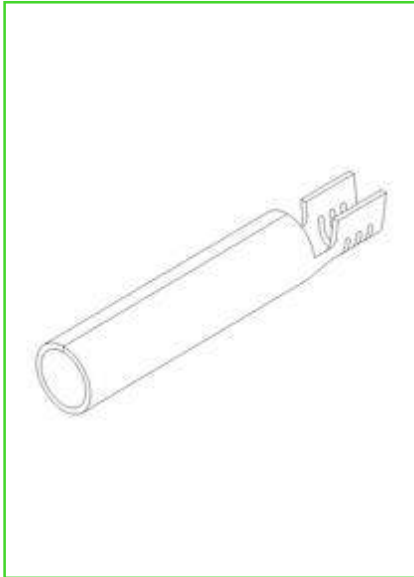


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	L	l	a	b	
2,2/TS-0,5	0,2 – 0,5	brass	-	spool	4022050000	2,2	14,3	6,4	5,8	3	0,25
2,2/TS-0,5	0,2 – 0,5	brass	-	cut	4022050001	2,2	14,3	6,4	5,8	3	0,25
2,2/TS-0,5	0,2 – 0,5	brass	tin	spool	4022050010	2,2	14,3	6,4	5,8	3	0,25
2,2/TS-0,5	0,2 – 0,5	brass	tin	cut	4022050011	2,2	14,3	6,4	5,8	3	0,25



SOCKET CONTACTS

type 2,8/TS1-1

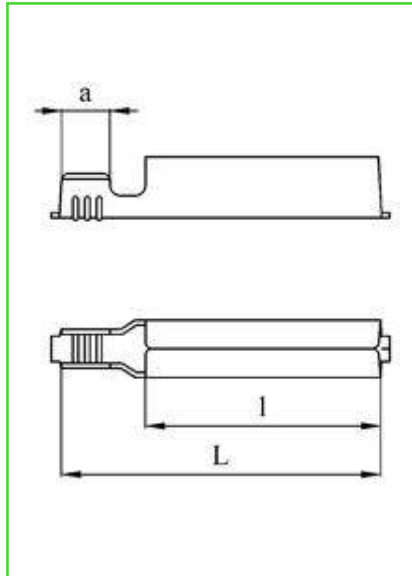
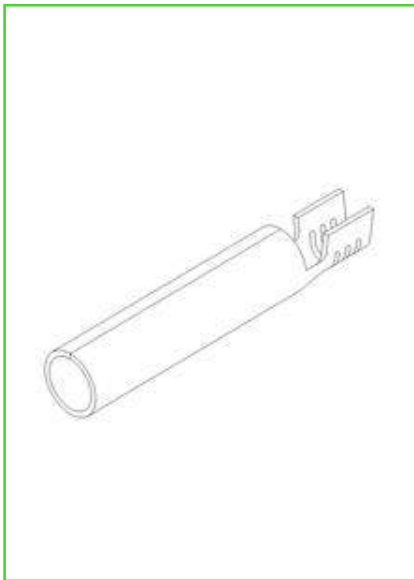


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						d	L	l	a	
2,8/TS1-1	0,5 - 1	brass	-	spool	4028101000	2,8	19,1	14	3	0,3
2,8/TS1-1	0,5 - 1	brass	-	cut	4028101001	2,8	19,1	14	3	0,3
2,8/TS1-1	0,5 - 1	brass	tin	spool	4028101010	2,8	19,1	14	3	0,3
2,8/TS1-1	0,5 - 1	brass	tin	cut	4028101011	2,8	19,1	14	3	0,3



SOCKET CONTACTS

type 3/TS1-1

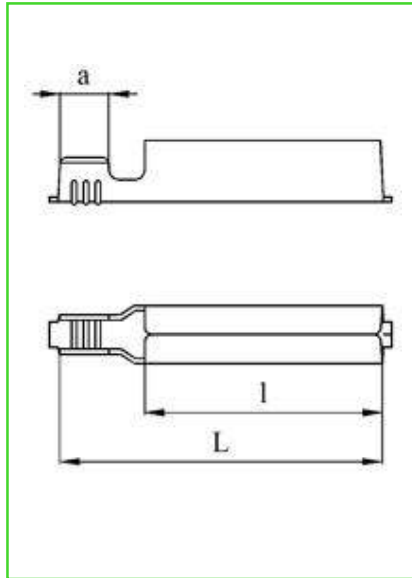
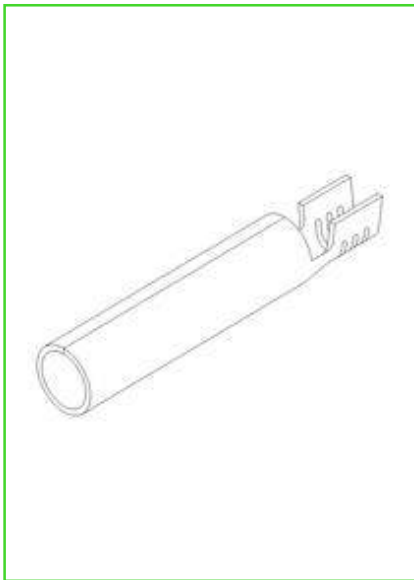


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						d	L	l	a	
3/TS1-1	0,5 - 1	brass	-	spool	4030101000	3	19,1	14	3	0,3
3/TS1-1	0,5 - 1	brass	-	cut	4030101001	3	19,1	14	3	0,3
3/TS1-1	0,5 - 1	brass	tin	spool	4030101010	3	19,1	14	3	0,3
3/TS1-1	0,5 - 1	brass	tin	cut	4030101011	3	19,1	14	3	0,3



SOCKET CONTACTS

type 4/TS1-1



Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						d	L	l	a	
4/TS1-1	0,5 - 1	brass	-	spool	4040101000	4	19,1	14	3	0,3
4/TS1-1	0,5 - 1	brass	-	cut	4040101001	4	19,1	14	3	0,3
4/TS1-1	0,5 - 1	brass	tin	spool	4040101010	4	19,1	14	3	0,3
4/TS1-1	0,5 - 1	brass	tin	cut	4040101011	4	19,1	14	3	0,3



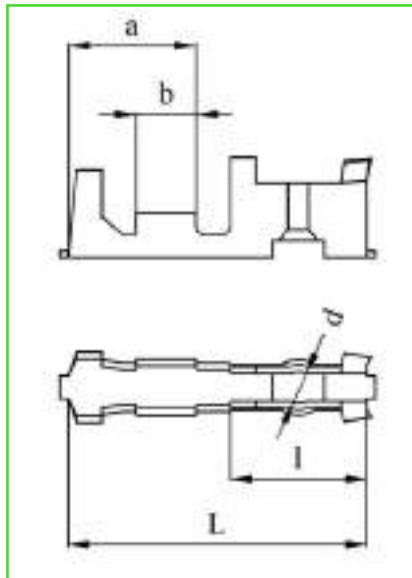
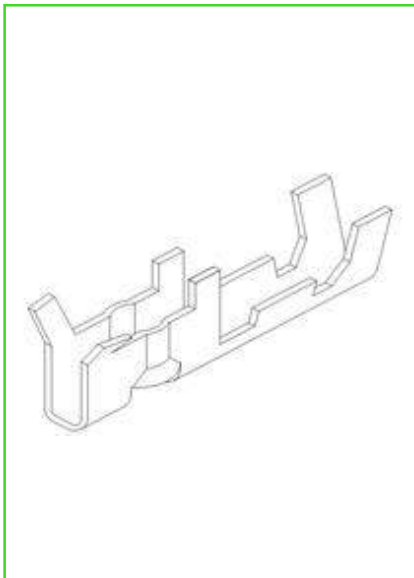


Prototyping Unit

Different terminals

TERMINALS

type 2,3/PW0-2,5

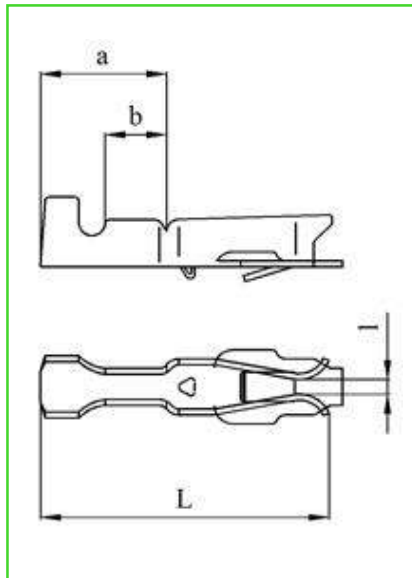
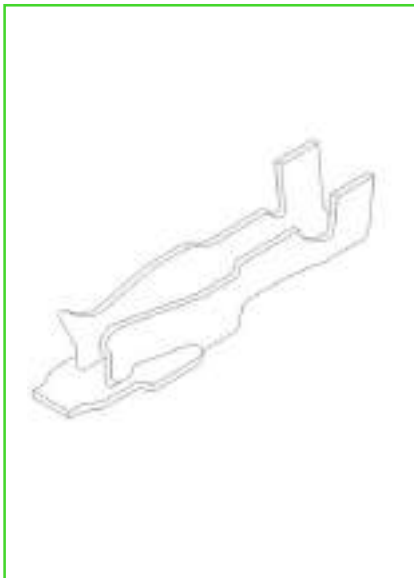


Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions					Th.
						d	L	l	a	b	
2,3/PW0-2,5	1,5 – 2,5	brass	-	spool	5023250000	2,3	17,5	8	7,5	3,5	0,4
2,3/PW0-2,5	1,5 – 2,5	brass	tin	spool	5023250010	2,3	17,5	8	7,5	3,5	0,4



TERMINALS

type 1/PRES-1,5



Type	Wire size range	Material	Surface	Made	Part numbers	Dimensions				Th.
						L	l	a	b	
1/PRES-1,5	0,5 – 2,5	brass	-	spool	5110150000	19	1	8,2	4	0,4
1/PRES-1,5	0,5 – 2,5	brass	tin	spool	5110150010	19	1	8,2	4	0,4



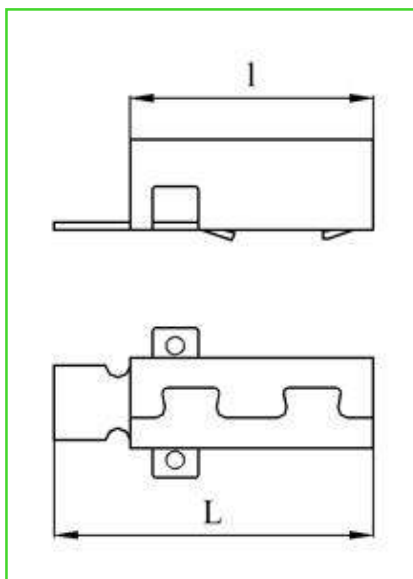
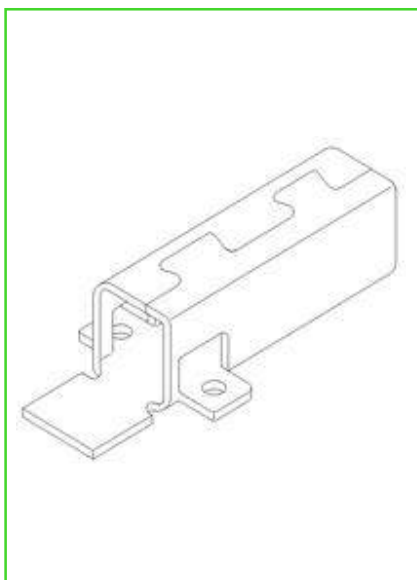


Prototyping Unit

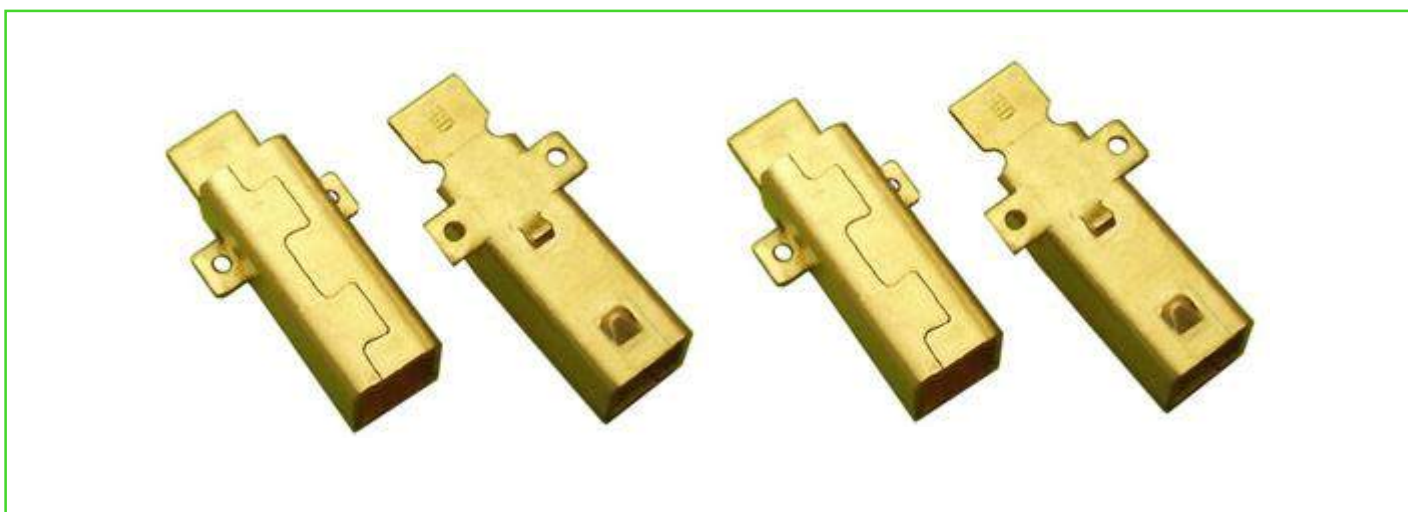
Brush holder

BRUSH HOLDER

type 197.0003

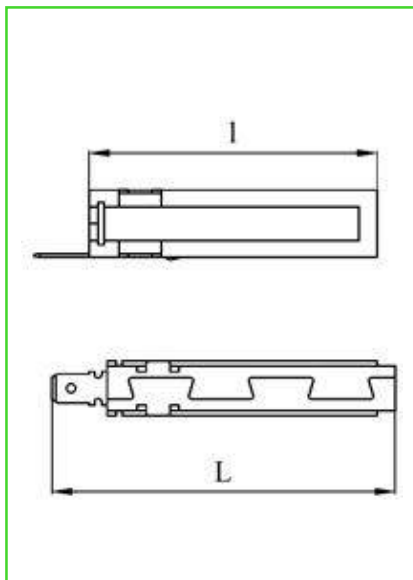


Type	Material	Surface	Made	Part numbers	Dimensions			Th.
					a x b	L	l	
197.0003	brass	-	cut	6050501001	5 x 5	21	16	0,5

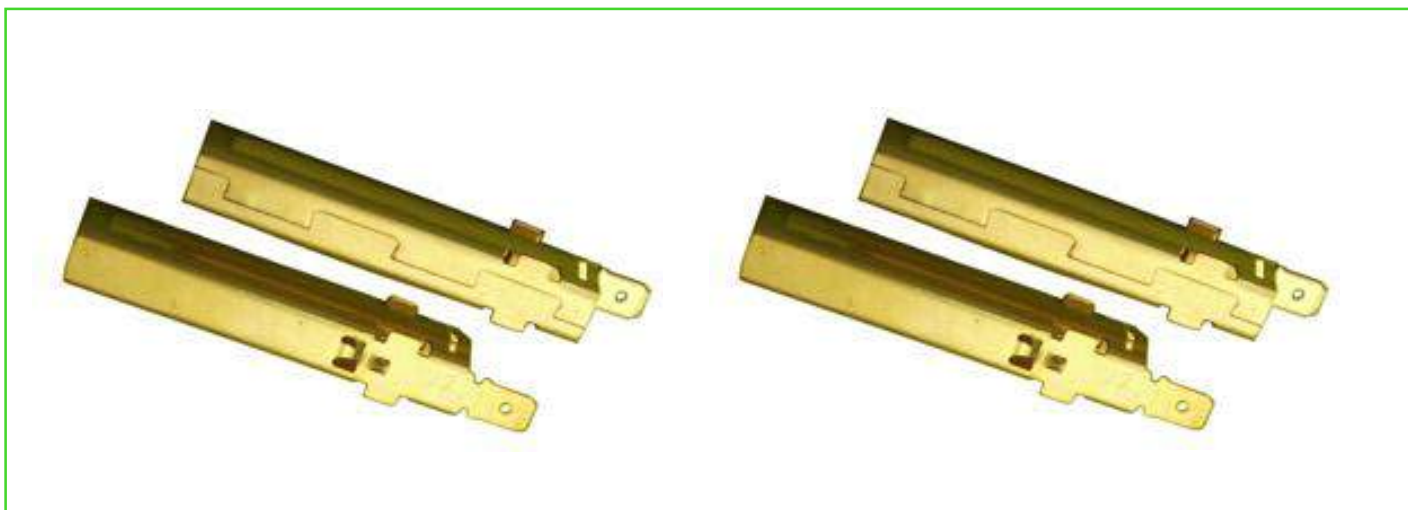


BRUSH HOLDER

type 304.0211

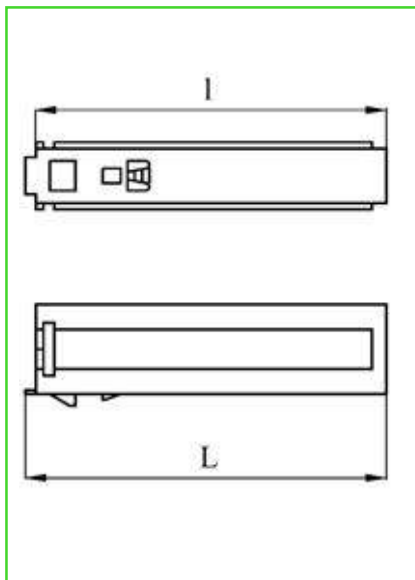
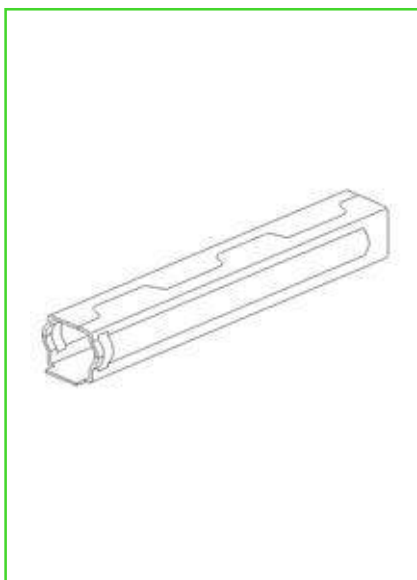


Type	Dimmensions tab		Material	Surface	Made	Part numbers	Dimmensions			Th.
	Thickness	Fits					a x b	L	l	
304.0211	4,8	0,5	brass	-	cut	6063100001	6,3 x 10	57,2	48	0,5



BRUSH HOLDER

type 309.0211



Type	Material	Surface	Made	Part numbers	Dimmensions			Th.
					a x b	L	l	
309.0211	brass	-	cut	6063110001	6,3 x 11	49,5	48	0,5



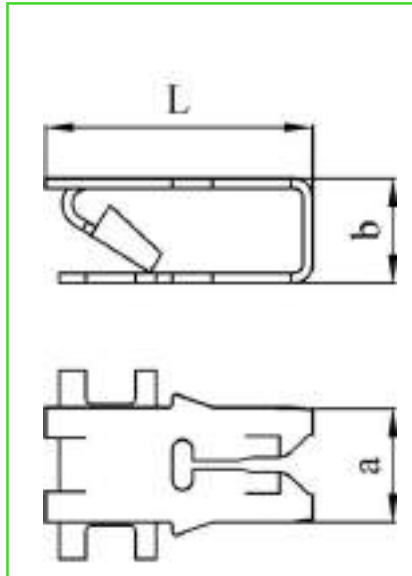
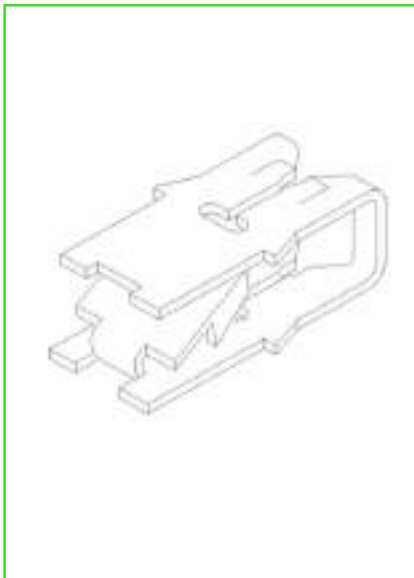


Prototyping Unit

Wire terminals

WIRE TERMINALS

type 3,4/ZDD-6

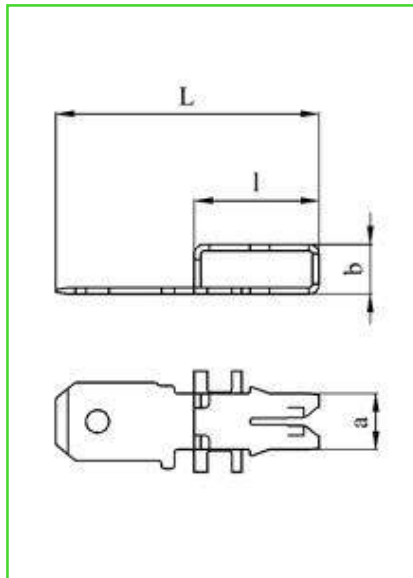
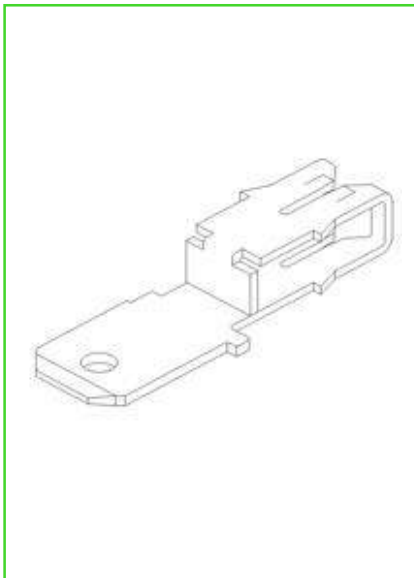


Type	Magnet wire range	Material	Surface	Made	Part numbers	Dimensions			Th.
						L	a	b	
3,4/ZDD-6	cooper $\varnothing 0,265 - \varnothing 0,40$ aluminum $\varnothing 0,32 - \varnothing 0,46$	brass	-	spool	7034060000	8	3,43	3	0,3
3,4/ZDD-6	cooper $\varnothing 0,265 - \varnothing 0,40$ aluminum $\varnothing 0,32 - \varnothing 0,46$	brass	tin	spool	7034060010	8	3,43	3	0,3



WIRE TERMINALS WITH TAB

type 3,4/ZDW-4

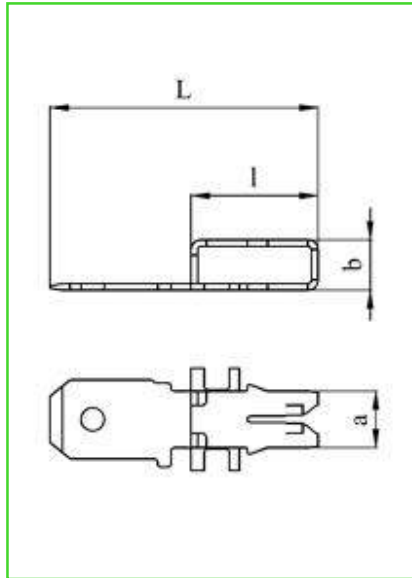
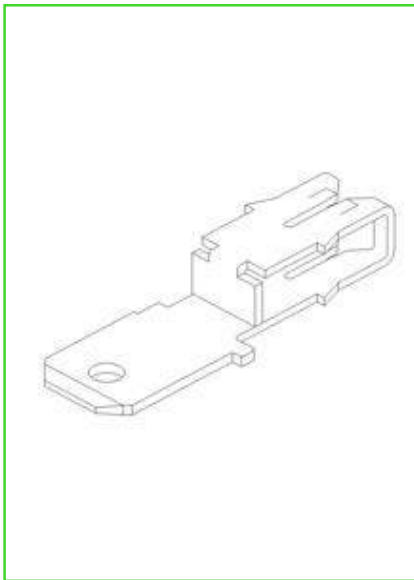


Type	Magnet wire range	Dimm. tab	Material	Surface	Made	Part numbers	Dimensions				Th.
							L	l	a	b	
3,4/ZDW-4	cooper $\varnothing 0,18 - \varnothing 0,26$	4,8x0,5	brass	-	spool	7134040000	16,08	7,62	3,43	3,05	0,5
3,4/ZDW-4	cooper $\varnothing 0,265 - \varnothing 0,40$	4,8x0,5	brass	tin	spool	7134040010	16,08	7,62	3,43	3,05	0,5



WIRE TERMINALS WITH TAB

type 3,4/ZDW-6

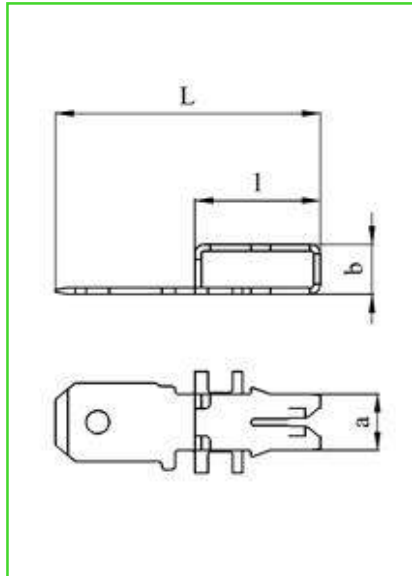
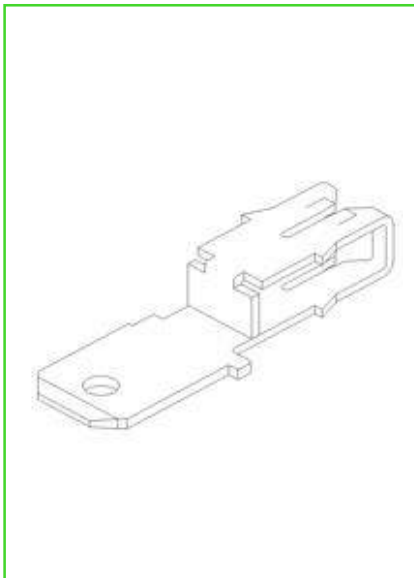


Type	Magnet wire range	Dimm. tab	Material	Surface	Made	Part numbers	Dimmensions				Th.
							L	l	a	b	
3,4/ZDW-6	cooper \varnothing 0,265 - \varnothing 0,40 aluminum \varnothing 0,32 - \varnothing 0,46	4,8x0,5	brass	-	spool	7134060000	16,08	7,62	3,43	3,05	0,5
3,4/ZDW-6	cooper \varnothing 0,265 - \varnothing 0,40 aluminum \varnothing 0,32 - \varnothing 0,46	4,8x0,5	brass	tin	spool	7134060010	16,08	7,62	3,43	3,05	0,5



WIRE TERMINALS WITH TAB

type 3,4/ZDW-10

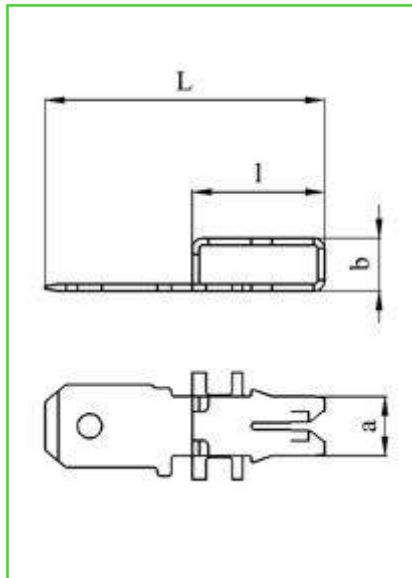
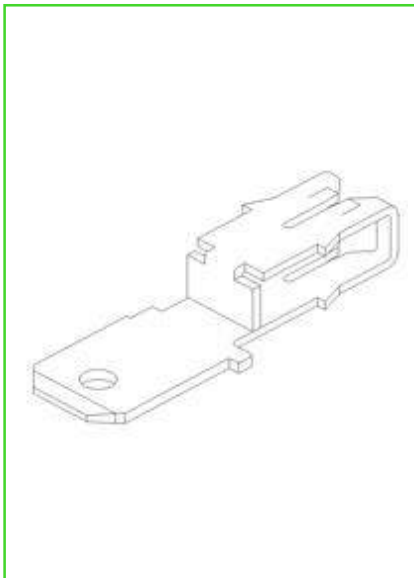


Type	Magnet wire range	Dimm. tab	Material	Surface	Made	Part numbers	Dimmensions				Th.
							L	l	a	b	
3,4/ZDW-10	cooper \varnothing 0,40 - \varnothing 0,67 aluminum \varnothing 0,51 - \varnothing 0,81	4,8x0,5	brass	-	spool	7134100000	16,08	7,62	3,43	3,05	0,5
3,4/ZDW-10	cooper \varnothing 0,40 - \varnothing 0,67 aluminum \varnothing 0,51 - \varnothing 0,81	4,8x0,5	brass	tin	spool	7134100010	16,08	7,62	3,43	3,05	0,5



WIRE TERMINALS WITH TAB

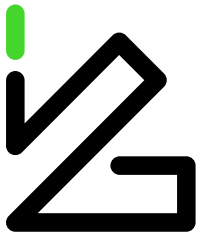
type 3,4/ZDW-15



Type	Magnet wire range	Dimm. tab	Material	Surface	Made	Part numbers	Dimmensions				Th.
							L	l	a	b	
3,4/ZDW-15	cooper \varnothing 0,67 - \varnothing 0,95 aluminum \varnothing 0,91 - \varnothing 1,02	4,8x0,5	brass	-	spool	7134150000	16,08	7,62	3,43	3,05	0,5
3,4/ZDW-15	cooper \varnothing 0,67 - \varnothing 0,95 aluminum \varnothing 0,91 - \varnothing 1,02	4,8x0,5	brass	tin	spool	7134150010	16,08	7,62	3,43	3,05	0,5



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