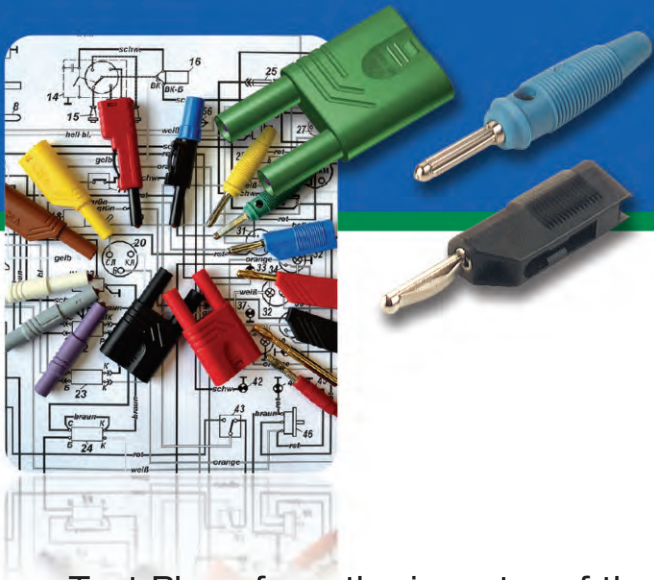
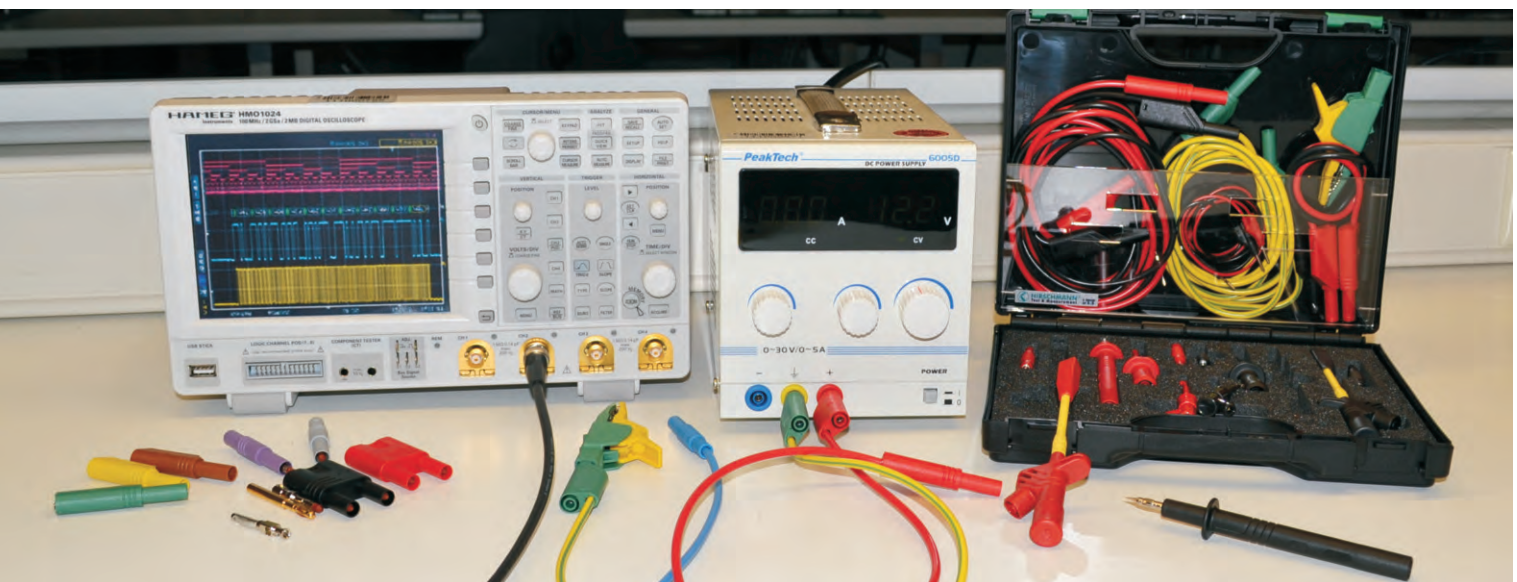
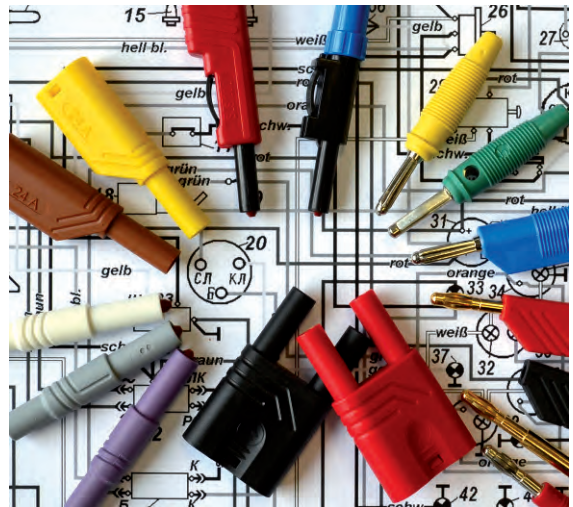


Test Plugs



Test Plugs from the inventor of the Banana Plug. Altech and SKS Hirschmann offers endless possibilities and solutions for different contact and connection systems. Various Plugs are also available for “Do it yourself” measurement leads.

- Large color spectrum
- Various connection types
- Different cross sections
- Safety plugs according to IEC61010



Test Plugs 2 mm System



Type

MST 201

2mm mini connector pin for PCB boards, fits MKU1 and MBU2 (for stacking PCB boards), pin spacing 5mm and up.

Pin diameter

2 mm (0.078")

PART NO. / Housing color

931338001



MST 3

2mm mini connector, nickel plated brass pin with solder connection, flexible and shatter proof insulated sleeve, connecting leads up to 1.9mm.

2 mm (0.078")

- 973509100
- 973509101
- 973509102
- 973509103
- 973509104
- 973509106

Technical Data

Contact Type	pin
Connection Type	solder terminal
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	6A
Contact Resistance	6 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	-
Housing	-

Environmental Conditions

Temperature range	-20 °C to +60 °C (-4 to 140°F)
-------------------	--------------------------------

Flamability Rating

Housing	-
---------	---

spring loaded pin	
solder terminal	
30 VAC / 60 VDC	
CAT I	
6A	
6 mOhm	

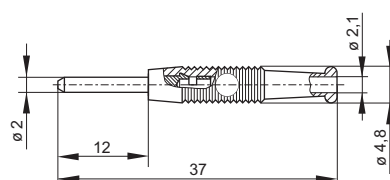
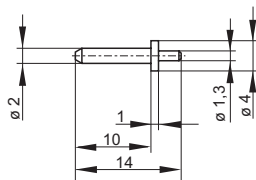
nickel plated brass	
-	
PVC-P	

-20 °C to +60 °C (-4 to 140°F)	
--------------------------------	--

-	
---	--

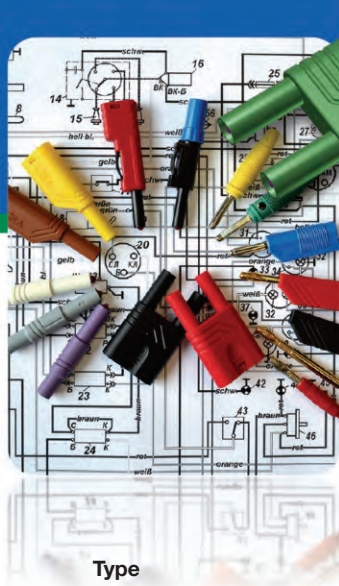
Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 2 mm System



Type



MZS 2

Shrouded Adapter 2mm plug to 4mm jack.

MST S WS 30 AU

2mm safety plug, spring loaded pin, gold plated, solder terminal 0.5mm2-1.0mm2, 1000V system.



Pin diameter

2 mm (0.078")

PART NO. / Housing color

● 973600100

● 973600101

2 mm (0.078")

● 975090700

● 975090701

● 975090702

● 975090703

● 975090704

● 975090705

● 975090706

● 975090707

● 975090709

Technical Data

Contact Type	stationary
Connection Type	jack Ø4mm
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	6A
Contact Resistance	6 mOhm
Material Specifications	
Plug	nickel plated brass
Contact Spring	-
Housing	PP
Environmental Conditions	
Temperature range	-20 °C to +60 °C (-4 to 140°F)
Flamability Rating	
Housing	UL94 HB

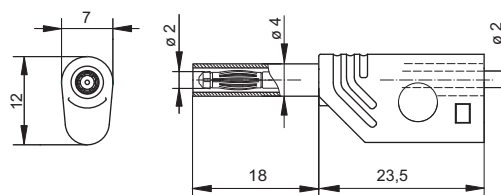
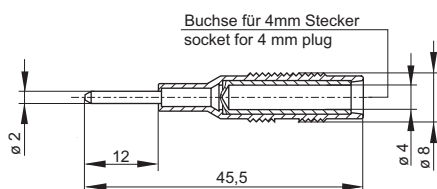
spring loaded pin
solder terminal
AC/DC 1000V
CAT III
10A
2 mOhm

gold plated copper-beryllium
gold plated brass
Polyamide

-15°C to +70°C (-5 to 158°F)

Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type **VST 100**

4mm spring loaded connector pin, nickel plated brass, screw terminal up to 1.5mm².

Pin diameter 4 mm (0.157")

PART NO. / Housing color **930581000**



VST 20

4mm spring loaded connector pin, nickel plated brass, M4 thread/ screw terminal up to 2mm².

4 mm (0.157")

930050000

Technical Data

Contact Type spring loaded pin
 Connection Type screw terminal max. 1.5mm²
 Voltage Rating 30 VAC / 60 VDC
 Measurement Category (IEC61010) CAT I
 Current Rating* 16A
 Contact Resistance 3 mOhm

Material Specifications

Plug nickel plated brass
 Contact Spring -
 Housing -

Environmental Conditions

Temperature range -25 °C to +100°C (-13 to 212°F)

Flamability Rating

Housing -

spring loaded pin
 M4 thread / soldering max. 2mm²
 30 VAC / 60 VDC
 CAT I
 16A
 3 mOhm

nickel plated brass

-

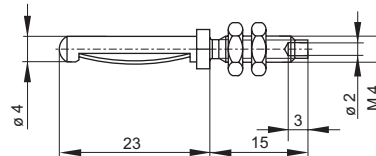
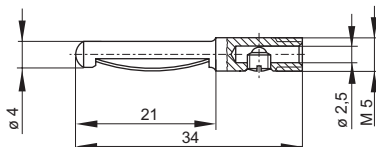
-

-25 °C to +100°C (-13 to 212°F)

-

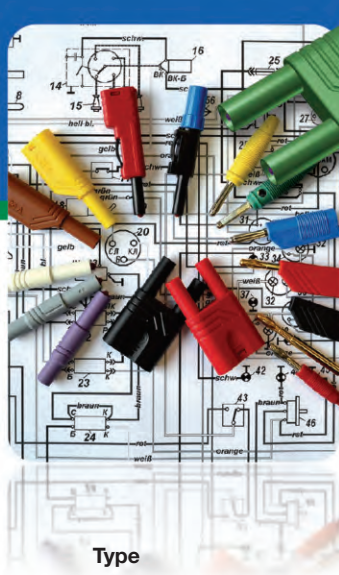
Drawing

Measurements are shown in millimeters.
 Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type



MZS 4

Shrouded Adapter 4mm plug to 2mm jack.

Pin diameter 4 mm (0.157")

- 973599100
- 973599101

Pin diameter

PART NO. / Housing color



KB 2

Fork type cable lug, nickel plated brass, flexible insulation sleeve, screw terminal up to 2.5mm².

Fork

- 930584100
- 930584101

Technical Data

Contact Type	spring loaded pin
Connection Type	spring-loaded jack (Ø 2 mm)
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	6A
Contact Resistance	6 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	nickel plated copper-beryllium
Housing	PP

Environmental Conditions

Temperature range	-20 °C to +60 °C (-4 to 140°F)
-------------------	--------------------------------

Flamability Rating

Housing	-
---------	---

fork cable lug
screw terminal max. 2.5mm ²
30 VAC / 60 VDC
CAT I
30A
1 mOhm

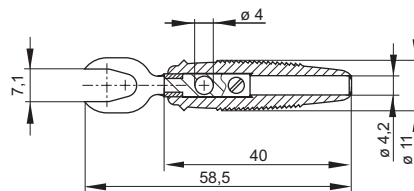
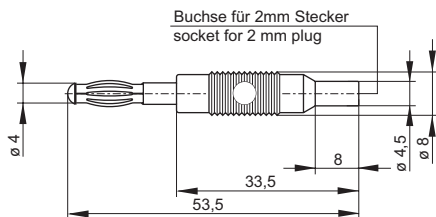
nickel plated brass
-
PVC-P

-25 °C to +70 °C (-13 to 158°F)

-

Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type

LAS 30 / LAS 30 Au

4mm spring loaded plug, nickel/ gold plated contact spring, solder terminal up 1.5mm².

Pin diameter

4 mm (0.157")

PART NO. / Housing color

- | Nickel Plated | Gold Plated |
|---------------|-------------|
| ● 972518100 | ● 972518700 |
| ● 972518101 | ● 972518701 |
| ● 972518102 | ● 972518702 |
| ● 972518103 | ● 972518703 |
| ● 972518104 | ● 972518704 |



BUELA 20 K

4mm multi spring plug, flexible, insulated sleeve with 4mm cross hole, nickel plated brass, screw terminal max. 1.5mm².

4 mm (0.157")

- 930726100
- 930726101
- 930726102
- 930726103
- 930726104
- 930726107

Technical Data

Contact Type: spring loaded pin
 Connection Type: solder terminal max. 1.5mm²
 Voltage Rating: 30 VAC / 60 VDC
 Measurement Category (IEC61010): CAT I
 Current Rating*: 32A
 Contact Resistance: 3 mOhm

Material Specifications

Plug: nickel plated brass; gold plated brass
 Contact Spring: nickel pl. copper-beryllium; gold pl. copper-beryllium
 Housing: PVC-P

Environmental Conditions

Temperature range: -25 °C to +70°C (-13 to 158°F)

Flamability Rating

Housing: -

Contact Type: spring loaded pin
 Connection Type: screw terminal max. 1.5mm²
 Voltage Rating: 30 VAC / 60 VDC
 Measurement Category: CAT I
 Current Rating: 16A
 Contact Resistance: 3 mOhm

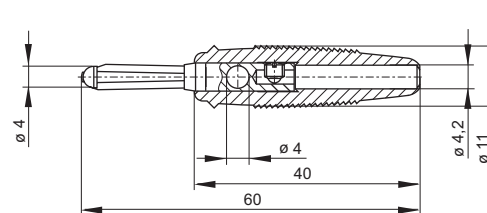
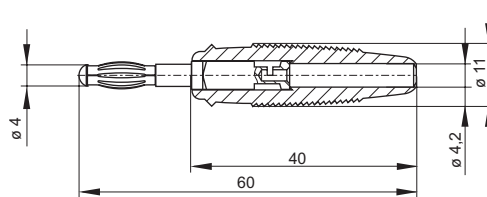
Plug: nickel plated brass
 Contact Spring: -
 Housing: PVC-P

Temperature range: -25 °C to +70°C (-13 to 158°F)

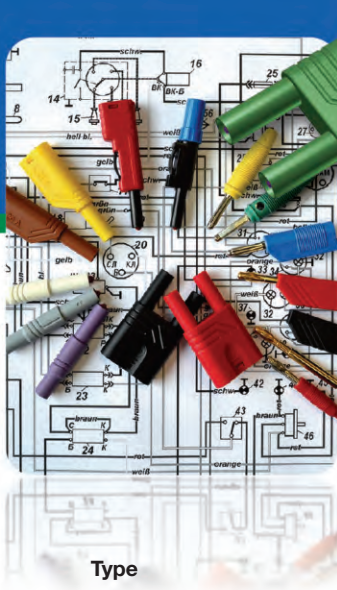
Housing: -

Drawing

Measurements are shown in millimeters.
 Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.



Test Plugs 4 mm System

Type

BUELA 30 K

4mm multi spring plug, flexible, insulated sleeve with 4mm cross hole, nickel plated brass, solder terminal max. 2.5mm².

BUELA 300 K

4mm multi spring plug, flexible, insulated sleeve with 4mm cross hole, nickel plated brass, solder terminal max. 2.5mm².

Pin diameter

4 mm (0.157")

4 mm (0.157")

PART NO. / Housing color

- 930727100
- 930727101
- 930727102
- 930727103
- 930727104
- 930727107

- 931667100
- 931667101
- 931667102
- 931667103
- 931667104

Technical Data

Contact Type	spring loaded pin
Connection Type	solder terminal max. 2.5mm ²
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	30A
Contact Resistance	3 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	-
Housing	PVC-P

Environmental Conditions

Temperature range	-25 °C to +70°C (-13 to 158°F)
-------------------	--------------------------------

Flamability Rating

Housing	-
---------	---

fork cable lug	
solder terminal max. 2.5mm ²	
30 VAC / 60 VDC	
CAT I	
30A	
3 mOhm	

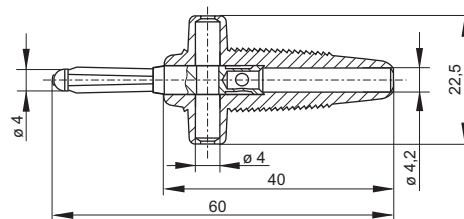
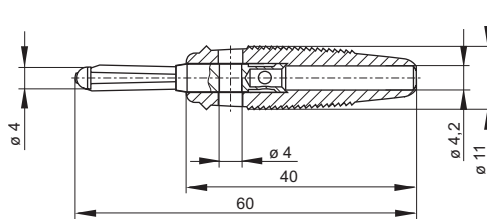
nickel plated brass	
-	
PVC-P	

-25 °C to +70°C (-13 to 158°F)	
--------------------------------	--

-

Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type

LAS N WS / LAS N WS Au

4mm stackable plug, nickel/ gold plated contact spring, screw terminal 0.5-1.5mm².

BSB 20 K

4mm multi spring plug with cable gland, nickel plated brass, screw terminal max. 2.5mm².

Pin diameter

4 mm (0.157")

4 mm (0.157")

PART NO. / Housing color

Nickel Plated	Gold Plated
● 934100100	● 934100700
● 934100101	● 934100701
● 934100102	● 934100702
● 934100103	● 934100703
● 934100104	● 934100704
● 934100105	● 934100705
● 934100106	● 934100706
● 934100107	● 934100707
● 934100109	● 934100709

● 930729100
● 930729101
● 930729102
● 930729103
● 930729104

Technical Data

Contact Type	spring loaded pin
Connection Type	screw terminal max. 1.5mm ²
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	24A
Contact Resistance	3 mOhm

Material Specifications

Plug	nickel plated brass; gold plated brass
Contact Spring	nickel pl. copper-beryllium; gold pl. copper-beryllium
Housing	Polyamide

Environmental Conditions

Temperature range	-15 °C to +70°C (5 to 158°F)
-------------------	------------------------------

Flamability Rating

Housing	UL 94 V-2
---------	-----------

Contact Type	spring loaded pin
Connection Type	screw terminal max. 2.5mm ²
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	30A
Contact Resistance	3 mOhm

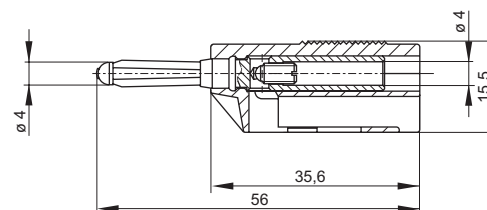
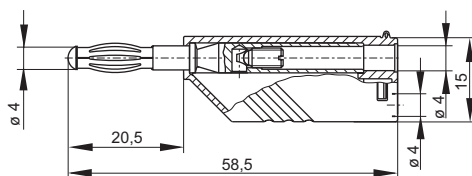
Plug	brass
Contact Spring	nickel
Housing	PP

Temperature range	-25 °C to +100°C (-13 to 212°F)
-------------------	---------------------------------

Housing	UL 94 HB
---------	----------

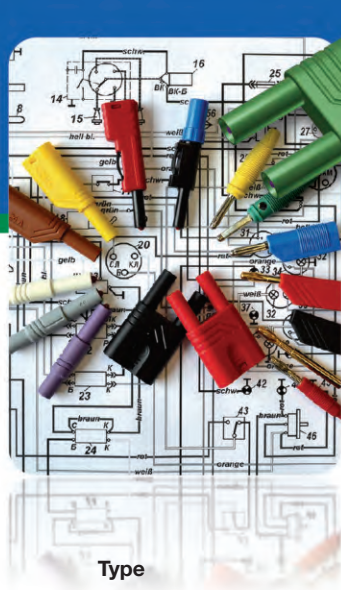
Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type

BSB 300

4mm multi spring wire plug with parallel adapter for shorting proof connection, nickel plated brass, solder terminal max. 1.5mm².

Pin diameter

4 mm (0.157")

PART NO. / Housing color

- 931294100
- 931294101
- 931294102
- 931294103
- 931294104

VSB 20

4mm spring loaded plug with cable gland, stackable (4mm jack), screw terminal max. 2.5mm².

4 mm (0.157")

- 930435100
- 930435101
- 930435102
- 930435103
- 930435104



Technical Data

Contact Type	spring loaded pin
Connection Type	solder terminal max. 1.5mm ²
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	16A
Contact Resistance	3 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	-
Housing	PP

Environmental Conditions

Temperature range	-25 °C to +100°C (-13 to 212°F)
-------------------	---------------------------------

Flamability Rating

Housing	UL 94 HB
---------	----------

spring loaded pin	spring loaded pin
screw terminal max. 2.5mm ²	screw terminal max. 2.5mm ²
30 VAC / 60 VDC	30 VAC / 60 VDC
CAT I	CAT I
30A	30A
3 mOhm	3 mOhm

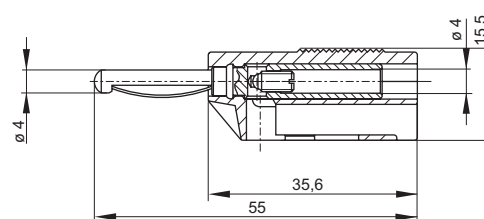
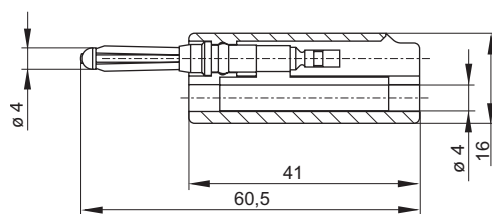
nickel plated brass	nickel plated brass
-	-
PP	PP

-25 °C to +70 °C (-13 to 158°F)	-25 °C to +70 °C (-13 to 158°F)
---------------------------------	---------------------------------

UL 94 HB	UL 94 HB
----------	----------

Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type

VON 20

4mm spring loaded plug, flexible insulation sleeve, nickel plated brass, screw terminal max. 1.5mm².

Pin diameter

4 mm (0.157")

PART NO. / Housing color

- 930046100
- 930046101
- 930046102
- 930046103
- 930046104



VON 30

4mm spring loaded plug, flexible insulation sleeve, nickel plated brass, solder terminal max. 2.5mm².

4 mm (0.157")

- 930047100
- 930047101
- 930047102
- 930047103
- 930047104

Technical Data

Contact Type: spring loaded pin
 Connection Type: screw terminal max. 1.5mm²
 Voltage Rating: 30 VAC / 60 VDC
 Measurement Category (IEC61010): CAT I
 Current Rating*: 16A
 Contact Resistance: 3 mOhm

Material Specifications

Plug: nickel plated brass
 Contact Spring: -
 Housing: PVC-P

Environmental Conditions

Temperature range: -25°C to +70°C (-13 to 158°F)

Flamability Rating

Housing: -

Contact Type: spring loaded pin
 Connection Type: screw terminal max. 2.5mm²
 Voltage Rating: 30 VAC / 60 VDC
 Measurement Category (IEC61010): CAT I
 Current Rating*: 30A
 Contact Resistance: 3 mOhm

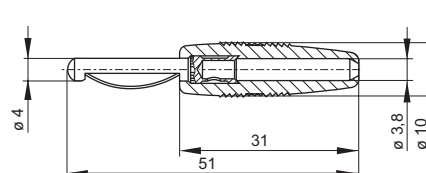
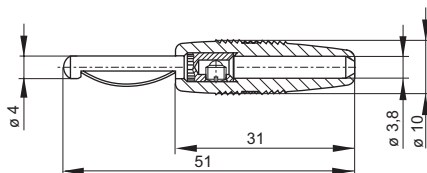
Plug: nickel plated brass
 Contact Spring: -
 Housing: PVC-P

Temperature range: -25°C to +70°C (-13 to 158°F)

Housing: -

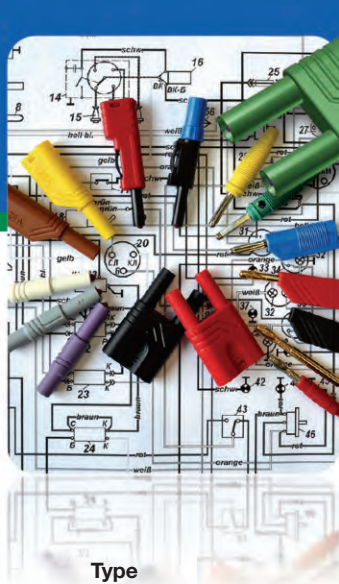
Drawing

Measurements are shown in millimeters.
 Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs 4 mm System



Type



VQ 20

4mm spring loaded plug with 4mm cross hole, flexible insulation sleeve, nickel plated brass, screw terminal max. 1.5mm².



VQ 30

4mm spring loaded plug with 4mm cross hole, flexible insulation sleeve, nickel plated brass, solder terminal max. 2.5mm².



Pin diameter

4 mm (0.157")

PART NO. / Housing color

- 930058100
- 930058101
- 930058102
- 930058103
- 930058104
- 930058107

4 mm (0.157")

- 930061100
- 930061101
- 930061102
- 930061103
- 930061104
- 930061107

Technical Data

Contact Type	spring loaded pin
Connection Type	screw terminal max. 1.5mm ²
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	16A
Contact Resistance	3 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	-
Housing	PVC-P

Environmental Conditions

Temperature range	-25°C to +70°C (-13 to 158°F)
-------------------	-------------------------------

Flamability Rating

Housing	-
---------	---

spring loaded pin	spring loaded pin
solder terminal max. 2.5mm ²	solder terminal max. 2.5mm ²
30 VAC / 60 VDC	30 VAC / 60 VDC
CAT I	CAT I
30A	30A
3 mOhm	3 mOhm

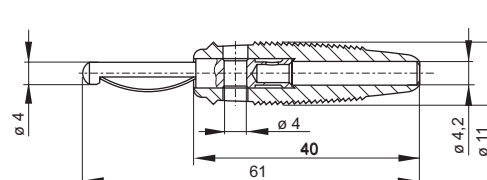
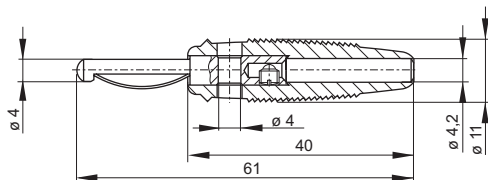
nickel plated brass	nickel plated brass
-	-
PP	PP

-25°C to +70 °C (-13 to 158°F)	-25°C to +70 °C (-13 to 158°F)
--------------------------------	--------------------------------

-	-
---	---

Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

Test Plugs

4 mm Retractable Plug System



Type

SLS 10 B

4mm touch proof banana plug, sliding sleeve system, solder terminal max. 2.5mm² leads.

Pin diameter

4 mm (0.157")

PART NO. / Housing color

- 931824100
- 931824101
- 931824102
- 931824103
- 931824104
- 931824107



SLS 20 B

4mm touch proof banana plug, sliding sleeve system, screw terminal max. 1.5mm² leads.

4 mm (0.157")

- 931825100
- 931825101
- 931825102
- 931825103
- 931825104
- 931825107

Technical Data

Contact Type	spring loaded plug
Connection Type	solder terminal max. 2.5mm ²
Voltage Rating	30 VAC / 60 VDC
Measurement Category (IEC61010)	CAT I
Current Rating*	30A
Contact Resistance	5 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	nickel plated copper-beryllium
Housing	POM

Environmental Conditions

Temperature range	-25°C to +70°C (-13 to 158°F)
-------------------	-------------------------------

Flamability Rating

Housing	UL 94 HB
---------	----------

Contact Type	spring loaded plug
Connection Type	screw terminal max. 1.5mm ²
Voltage Rating	30 VAC / 60 VDC ¹
Measurement Category (IEC61010)	CAT I
Current Rating*	16A
Contact Resistance	5 mOhm

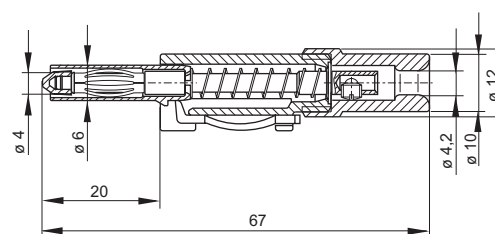
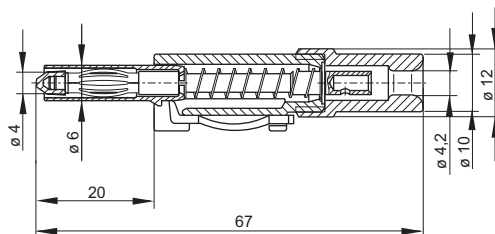
Plug	nickel plated brass
Contact Spring	nickel plated copper-beryllium
Housing	POM

Temperature range	-25°C to +70°C (-13 to 158°F)
-------------------	-------------------------------

Housing	UL 94 HB
---------	----------

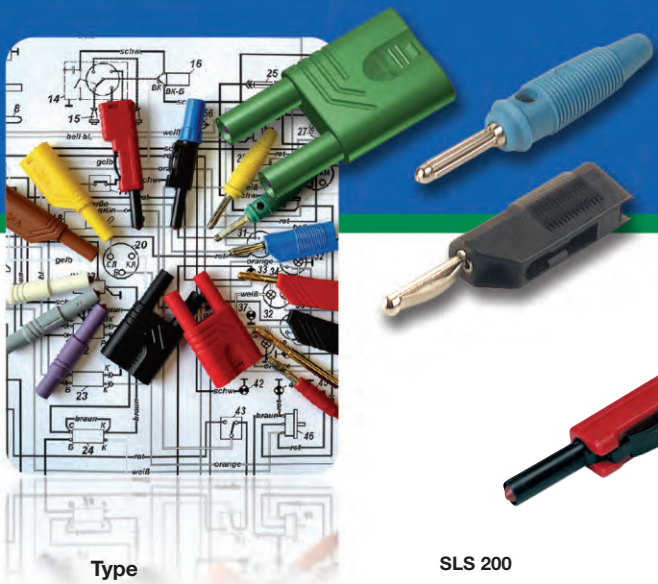
Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

¹For this two types up to DC 150 V, CAT II according IEC/EN 61010-31 item 6.4., comment 4 allowed for devices with not yet protected sockets.



Test Plugs

4 mm System Retractable Plug

Type

SLS 200

4mm touch proof banana plug, stackable, sliding sleeve system, screw terminal max. 2.5mm² leads.

Pin diameter

PART NO. / Housing color

4 mm (0.157")

- 932153100
- 932153101
- 932153102
- 932153103
- 932153104



LAS S W

4mm safety banana plug, angled, 1000V system, screw terminal 0.5-1.5mm² leads.

4 mm (0.157")

- 934098100
- 934098101
- 934098102
- 934098103
- 934098104

Technical Data

Contact Type	spring loaded plug
Connection Type	screw terminal max. 2.5mm ²
Voltage Rating	30 VAC / 60 VDC ¹
Measurement Category (IEC61010)	CAT I
Current Rating*	30A
Contact Resistance	5 mOhm

Material Specifications

Plug	nickel plated brass
Contact Spring	nickel plated copper-beryllium
Housing	PP

Environmental Conditions

Temperature range	-25°C to +70°C (-13 to 158°F)
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Flamability Rating

Housing	UL 94 HB
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spring loaded plug
screw terminal 0.5-1.5mm ²
AC/DC 1000V
CAT III
24A
-

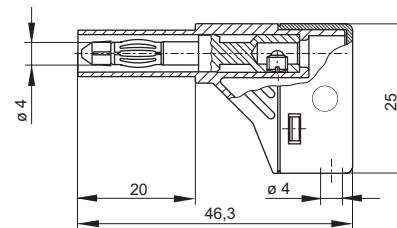
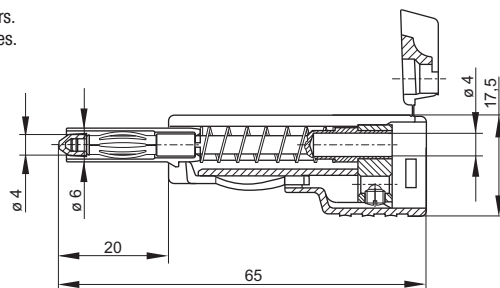
nickel plated brass
nickel plated copper-beryllium
Polyamide

-25°C to +70°C (-13 to 158°F)

UL 94 V-2

Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.

¹For this two types up to DC 150 V, CAT II according IEC/EN 61010-31 item 6.4., comment 4 allowed for devices with not yet protected sockets.

Test Plugs 4 mm System



Type

LAS S WS

4mm safety banana plug, stackable, 1000V system, screw terminal 0.5-1.5mm² leads.

Pin diameter

4 mm (0.157")

PART NO. / Housing color

- 934099100
- 934099101
- 934099102
- 934099103
- 934099104
- 934099105
- 934099106
- 934099107
- 934099109



LAS S G

4mm safety banana plug, stackable, 1000V system, screw terminal 0.5-1.5mm² leads.

4 mm (0.157")

- 934097100
- 934097101
- 934097102
- 934097103
- 934097104
- 934097105
- 934097106
- 934097107
- 934097109



KST S WS

4mm dual safety plug, stackable, 1000V system, nickel plated, 4mm jack.

4 mm (0.157")

- 932200100
- 932200101
- 932200102
- 932200103
- 932200104

Technical Data

Contact Type	spring loaded plug
Connection Type	screw terminal 0.5-1.5mm ²
Voltage Rating	AC/DC 1000 V
Measurement Category (IEC61010)	CAT II
Current Rating*	24A
Contact Resistance	-

Material Specifications

Plug	nickel plated brass
Contact Spring	nickel plated copper-beryllium
Housing	Polyamide

Environmental Conditions

Temperature range	-15°C to +70°C (5 to 158°F)
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Flamability Rating

Housing	UL 94 V-2
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Contact Type	spring loaded plug
Connection Type	screw terminal 0.5-1.5mm ²
Voltage Rating	AC/DC 1000 V
Measurement Category (IEC61010)	CAT III
Current Rating*	24A
Contact Resistance	-

Plug	nickel plated brass
Contact Spring	nickel plated copper-beryllium
Housing	Polyamide

Temperature range	-15°C to +70°C (5 to 158°F)
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Housing	UL 94 V-2
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Contact Type	2x spring loaded plug
Connection Type	jack Ø 4 mm
Voltage Rating	AC/DC 1000 V
Measurement Category (IEC61010)	CAT II
Current Rating*	32A
Contact Resistance	8 mOhm

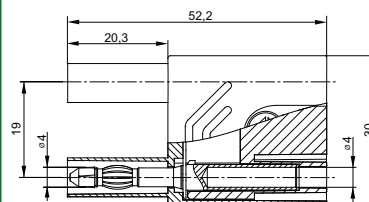
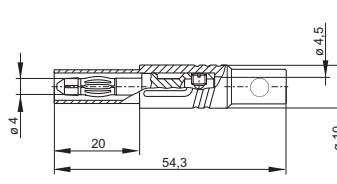
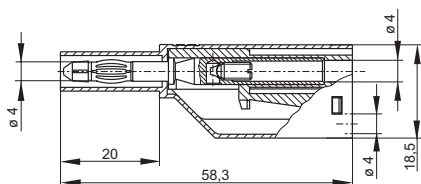
Plug	nickel plated copper-beryllium
Contact Spring	nickel plated brass
Housing	Polyamide

Temperature range	-15°C to +70°C (5 to 158°F)
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Housing	UL 94 V-2
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Drawing

Measurements are shown in millimeters.
Multiply by 0.03937 to convert to inches.



* Please consider derating graph on page 80.