

# General characteristics and technical data Series 100

**100** Series

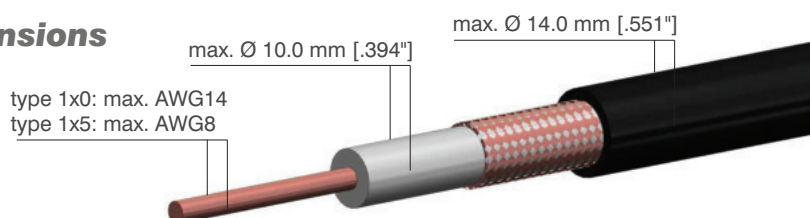
| Housing                               |                   |
|---------------------------------------|-------------------|
| Locking system                        | threaded coupling |
| Mounting type (panel mount connector) | round flange      |
| Housing material                      | brass (CuZn)      |
| Surface plating                       | nickel (Ni)       |
| Protection class (mated connector)    | IP67              |
| Operating temperature                 | -30°C to +80°C    |

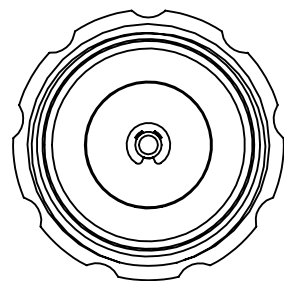
| Contacts 2.5 mm (connector types SB1x0) |                                                        |
|-----------------------------------------|--------------------------------------------------------|
| Termination method                      | solder (male contact), solder / screw (female contact) |
| Rated current                           | 30 A                                                   |
| Max. operating current                  | 40 A                                                   |
| Pulse current                           | 3000 A                                                 |
| Contact resistance                      | 300 $\mu\Omega$                                        |
| Contact diameter                        | 2.5 mm [.173"]                                         |
| Contact diameter                        | AWG 14 / 2.5 mm <sup>2</sup>                           |
| Contact material                        | brass (CuZn)                                           |
| Contact plating                         | silver (Ag)                                            |
| Insertion / Withdrawal force            | 5.5 N / 4.0 N                                          |
| Mating cycles                           | 100000                                                 |
| Rated temperature                       | +120°C                                                 |

| Contacts 5 mm (connector types SB1x5) |                                                        |
|---------------------------------------|--------------------------------------------------------|
| Termination method                    | solder (male contact), solder / screw (female contact) |
| Rated current                         | 80 A                                                   |
| Max. operating current                | 110 A                                                  |
| Pulse current                         | 10000 A                                                |
| Contact resistance                    | 150 $\mu\Omega$                                        |
| Contact diameter                      | 5 mm [.197"]                                           |
| Max. wire size                        | AWG 8 / 10 mm <sup>2</sup>                             |
| Contact material                      | brass (CuZn)                                           |
| Contact plating                       | silver (Ag)                                            |
| Insertion / Withdrawal force          | 15 N / 10 N                                            |
| Mating cycles                         | 100000                                                 |
| Rated temperature                     | +120°C                                                 |

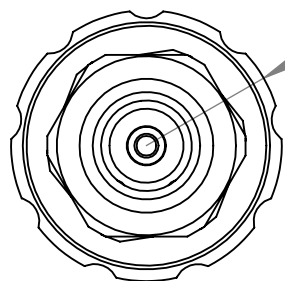
| Insulation inserts                   |                   |
|--------------------------------------|-------------------|
| Number of contacts                   | 1                 |
| Insulation material                  | PTFE              |
| CTI value                            | 600               |
| Flammability class PTFE              | UL94 V-0          |
| Operating temperature PTFE           | -50°C to +200°C   |
| Insulating material group PTFE / POM | I (DIN IEC 60664) |

## Suitable cable dimensions



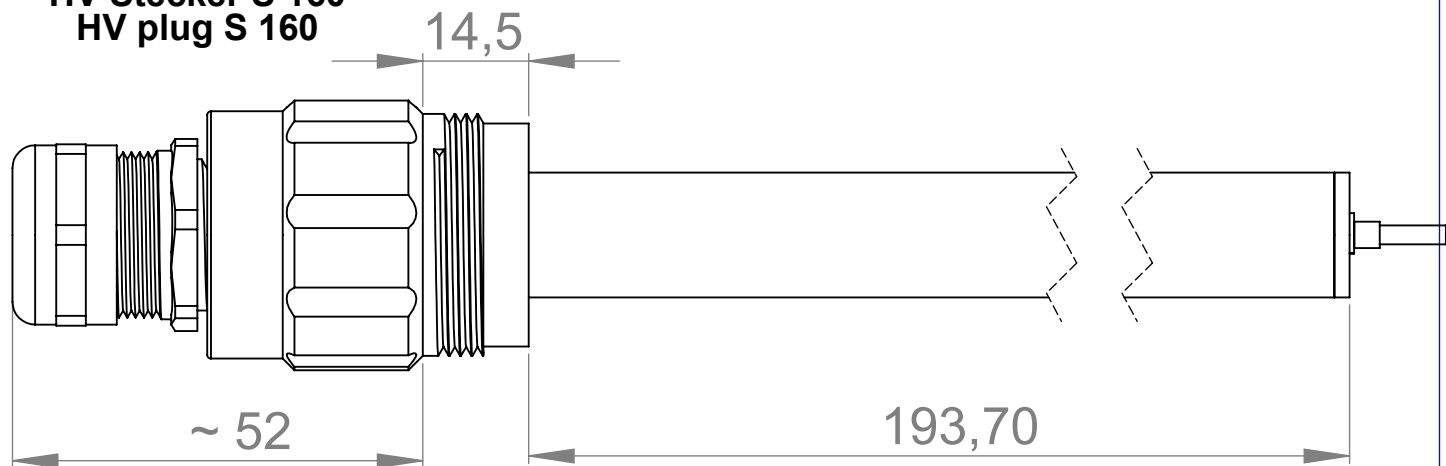


Rückansicht  
rear view

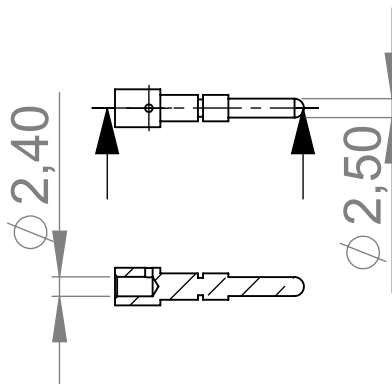


R17,90

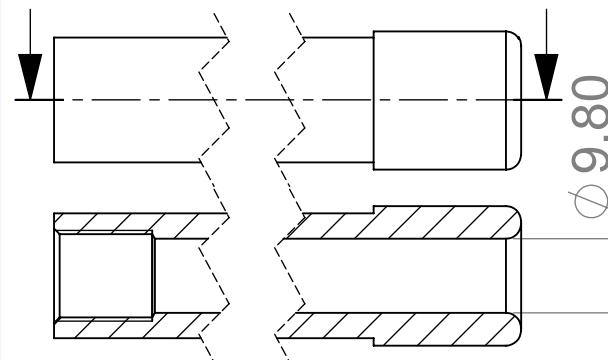
HV Stecker S 160  
HV plug S 160



Stiftkontakt  
male contact



Isolierteil  
insulation part



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBUR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

|        | NAME  | SIGNATURE | DATE     |  |  |
|--------|-------|-----------|----------|--|--|
| DRAWN  | Ammon |           | 21.05.10 |  |  |
| CHK'D  |       |           |          |  |  |
| APPV'D |       |           |          |  |  |
| MFG    |       |           |          |  |  |
| Q.A    |       |           |          |  |  |
|        |       |           |          |  |  |
|        |       |           |          |  |  |
|        |       |           |          |  |  |
|        |       |           |          |  |  |

**GES**

WEIGHT:

TITLE:

**HV STECKER S 160  
HV plug S 160**

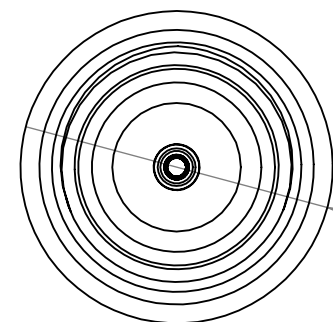
DWG NO.

**S 160**

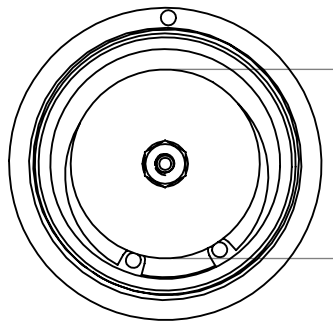
A4

SCALE:1:1

SHEET 1 OF 1



HV Buchse B160  
HV receptacle B160



Rückansicht  
rear view

M 36 x 0,75

Ø 25

Ø 41,30

4,60

10,50

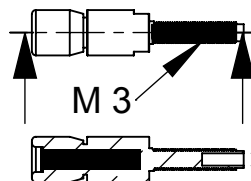
2,20

22,40

235,35

Ø 34,50

Buchsenkontakt  
female contact



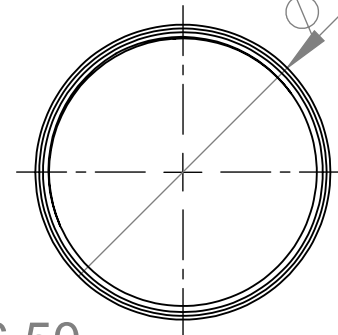
M 3

Ø 1,60

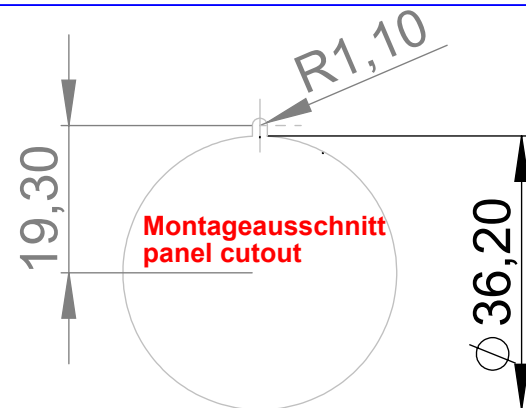
Gewinding für Befestigung  
mounting nut



6,50



Ø 39



Montageausschnitt  
panel cutout

UNLESS OTHERWISE SPECIFIED:  
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ANGULAR:

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EDGES

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| CHK'D  |       |           |          |  |  |
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| MFG    |       |           |          |  |  |
| Q.A    |       |           |          |  |  |
|        |       |           |          |  |  |
|        |       |           |          |  |  |
|        |       |           |          |  |  |
|        |       |           |          |  |  |

**GES**

WEIGHT:

TITLE:

**HV BUCHSE B 160**  
**HV socket B 160**

DWG NO.

**B 160**

A4

SCALE:1:1

SHEET 1 OF 1

