AC-HVDC power supplies

# Screened HV cable

The standard combination of cable and connector can be found in the device datasheets under 'Models & ratings'.

### HRG58

| Technical data | |
|---|---|
| Maximum current | 10A/DC |
| Impedance | 50Ω |
| Maximum ambient temperature | +105°C |
| Bend radius (once) | 37mm |
| Outer diameter | 4.95mm |
| **Max. cable operating voltage DC** | **Typical connectors** |
| 20kV | SHV 10 |

### 130 660

| Technical data | |
|---|---|
| Maximum current | 6A/DC |
| Impedance | 55Ω |
| Maximum ambient temperature | +90°C |
| Bend radius (once) | 27mm |
| Outer diameter | 5.4mm |
| **Max. cable operating voltage DC** | **Typical connectors** |
| 30kV | F 3415<br>HS 21<br>HS40 |

### RG 11

| Technical data | |
|---|---|
| Maximum current | 6A/DC |
| Impedance | 75Ω |
| Maximum ambient temperature | +80°C |
| Bend radius (once) | 50mm |
| Outer diameter | 10.3mm |
| **Max. cable operating voltage DC** | **Typical connectors** |
| 50kV | F 3430<br>KS 150 |

### HSC-50

| Technical data | |
|---|---|
| Maximum current | 12A/DC |
| Impedance | 44Ω |
| Maximum ambient temperature | +90°C |
| Bend radius (once) | 60mm |
| Outer diameter | 11.7 ±0.5mm |
| **Max. cable operating voltage DC** | **Typical connectors** |
| 50kV | KS150 |

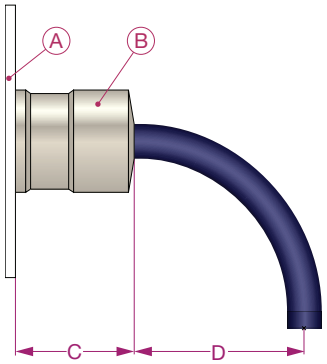
### C 2124

| Technical data | |
|---|---|
| Maximum current | 12A/DC |
| Impedance | 61Ω |
| Maximum ambient temperature | +60°C |
| Bend radius (once) | 150mm |
| Outer diameter | 11.2mm |
| **Max. cable operating voltage DC** | **Typical connectors** |
| 100kV | KS 160<br>B100KTOI |

### C 2121

| Technical data | |
|---|---|
| Maximum current | 15A/DC |
| Impedance | 51Ω |
| Maximum ambient temperature | +60°C |
| Bend radius (once) | 216mm |
| Outer diameter | 15.9mm |
| **Max. cable operating voltage DC** | **Typical connectors** |
| 150kV | B150KTOI |

| Key | |
|---|---|
| A | Unit rear panel |
| B | Connector |
| C | Connector body length |
| D | Bend radius |



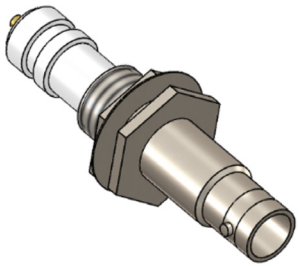
# HV output **cable & connectors**

## Connectors

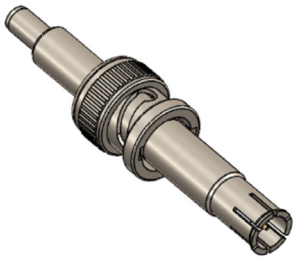
The standard combination of cable and connector can be found in the device datasheets under 'Models & ratings'.

### SHV 10

Socket



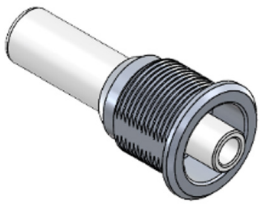
Connector



| Maximum output values | |
|---|---|
| Voltage | 10kV |
| Current | 9A (DC) |
| Connector body length | 37mm |

### RA 3415 - F 3415

Socket

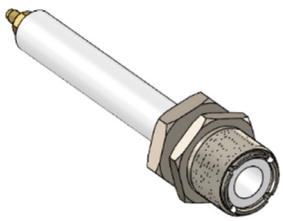


Connector

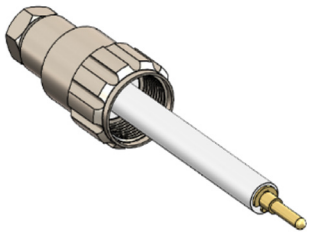
| Maximum output values | |
|---|---|
| Voltage | 12.5kV |
| Current | 8A (DC) |
| Connector body length | 50mm |

### HB 21 - HS 21

Socket



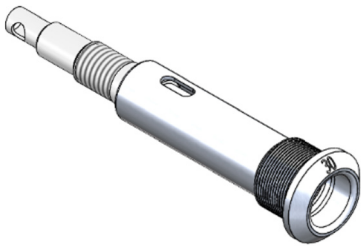
Connector



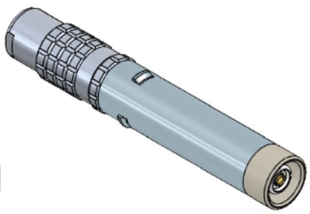
| Maximum output values | |
|---|---|
| Voltage | 20kV |
| Current | 30A (DC) |
| Connector body length | 46mm |

### RA 3430 - F 3430

Socket



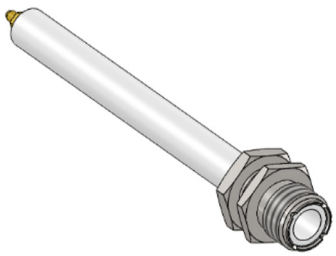
Connector



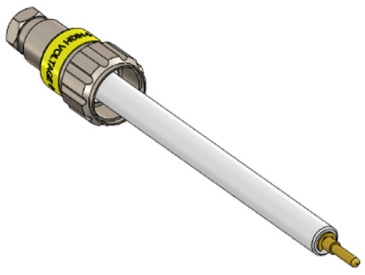
| Maximum output values | |
|---|---|
| Voltage | 35kV |
| Current | 15A (DC) |
| Connector body length | 42mm |

### HB 41 - HS 40

Socket



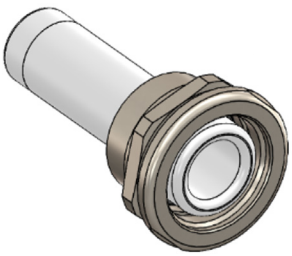
Connector



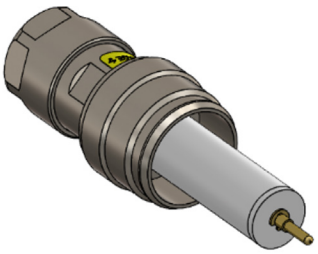
| Maximum output values | |
|---|---|
| Voltage | 40kV |
| Current | 30A (DC) |
| Connector body length | 45mm |

### GB 150 - KS 150

Socket



Connector



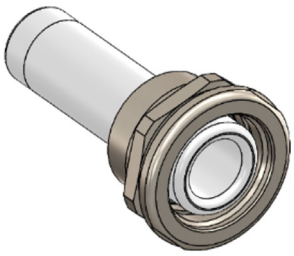
| Maximum output values | |
|---|---|
| Voltage | 50kV |
| Current | 30A (DC) |
| Connector body length | 55mm |

# HV output **cable & connectors**

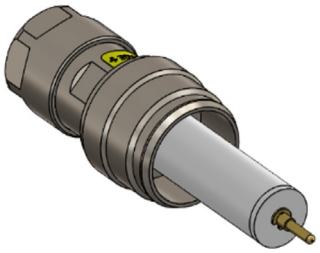


### GB 155 - KS 155

Socket



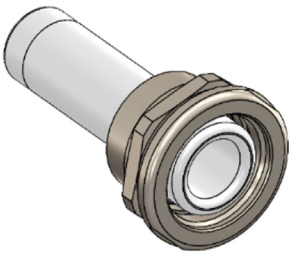
Connector



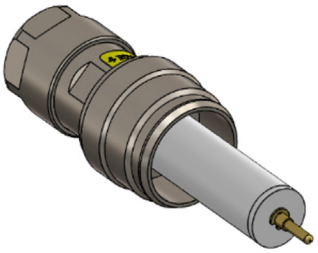
| Maximum output values | |
|---|---|
| Voltage | 50kV |
| Current | 80A (DC) |
| Connector body length | 55mm |

### GB 160 - KS 160

Socket



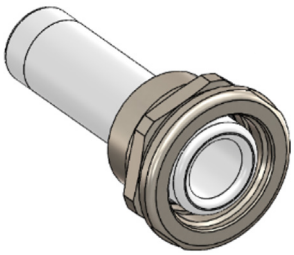
Connector



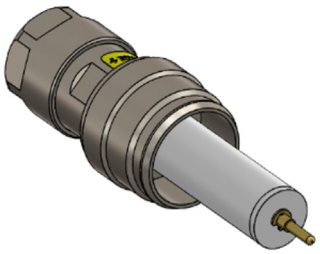
| Maximum output values | |
|---|---|
| Voltage | 65kV |
| Current | 30A (DC) |
| Connector body length | 55mm |

### GB 180 - KS 180

Socket



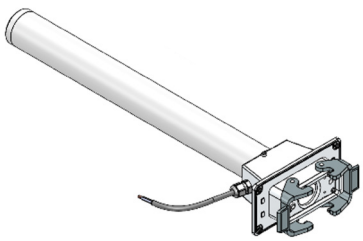
Connector



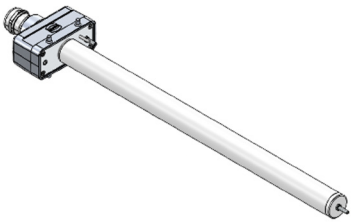
| Maximum output values | |
|---|---|
| Voltage | 80kV |
| Current | 30A (DC) |
| Connector body length | 55mm |

### B100KTOI[1]

Socket



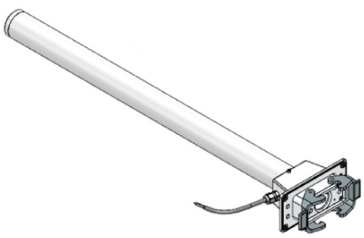
Connector



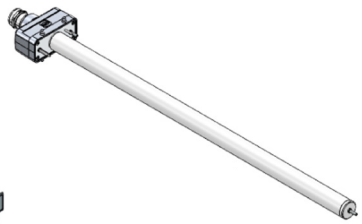
| Maximum output values | |
|---|---|
| Voltage | 100kV |
| Current | 12A (DC) |
| Connector body length | 117mm |

### B150KTOI[1]

Socket



Connector



| Maximum output values | |
|---|---|
| Voltage | 150kV |
| Current | 15A (DC) |
| Connector body length | 117mm |

**Notes:**

1. An interlock connection is included for the B100KTOI and B150KTOI.