

# VS-FSDB-IP20SDA/981/1,0 SCO - Patch cable



1420168

<https://www.phoenixcontact.com/gb/products/1420168>

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Assembled USB cable, shielded, color: black, PVC outer sheath, USB mini-B/IP20 on USB type A/IP20, length: 1 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1420168       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF1CPA        |
| Product key                          | AF1CPA        |
| GTIN                                 | 4046356548595 |
| Weight per piece (including packing) | 69 g          |
| Weight per piece (excluding packing) | 68.1 g        |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

## Technical data

### Notes

#### Trade restriction

##### CE note

The products are offered exclusively for export outside the EU and the European Economic Area.

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Application         | Standard                |
| Number of positions | 4                       |
| Shielded            | yes                     |

### Electrical properties

|                                         |         |
|-----------------------------------------|---------|
| Nominal voltage $U_N$                   | 48 V AC |
|                                         | 60 V DC |
| Nominal current $I_N$                   | 1 A     |
| Transmission medium                     | Copper  |
| Transmission characteristics (category) | USB 2.0 |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

### Connection data

#### Connection assignment

|                                                           |                                              |
|-----------------------------------------------------------|----------------------------------------------|
| Contact   Color (signal designation)   Contact (optional) | 1 (M12 mini B)   RD (+5 V)   1 (USB type A)  |
|                                                           | 2 (M12 mini B)   WH (DATA-)   2 (USB type A) |
|                                                           | 3 (M12 mini B)   GN (DATA+)   3 (USB type A) |
|                                                           | 4 (M12 mini B)   N.C.                        |
|                                                           | 5 (M12 mini B)   BK (GND)   4 (USB type A)   |

### Connector

#### Connection 1

|                      |                                 |
|----------------------|---------------------------------|
| Type                 | Plug straight USB type A / IP20 |
| Degree of protection | IP20                            |

#### Connection 2

|          |                                   |
|----------|-----------------------------------|
| Type     | Socket straight M12 mini B / IP65 |
| Material | Cu alloy                          |

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|                      |       |
|----------------------|-------|
|                      | Ni/Au |
| Degree of protection | IP65  |

## Cable/line

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Cable length                    | 1 m                                             |
| External sheath, color          | black                                           |
| Ambient temperature (operation) | -25 °C ... 80 °C (Cable, flexible installation) |

# VS-FSDB-IP20SDA/981/1,0 SCO - Patch cable

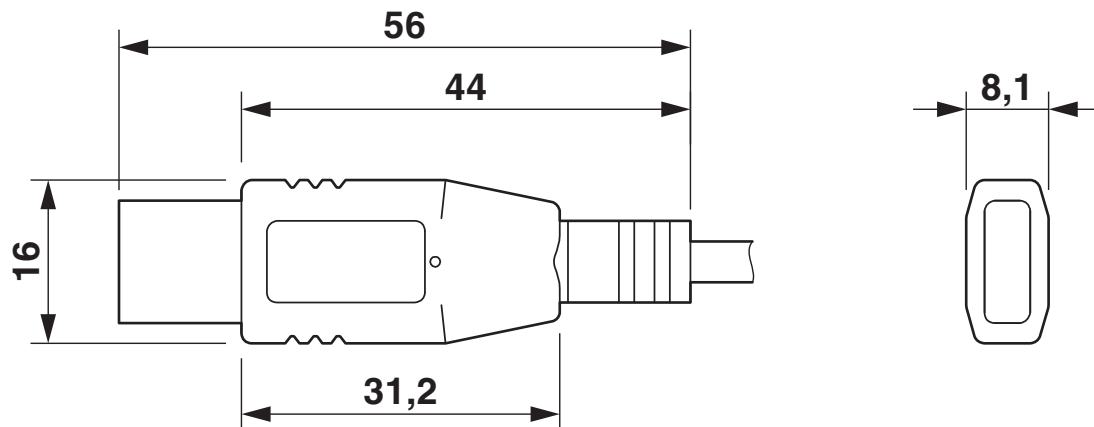
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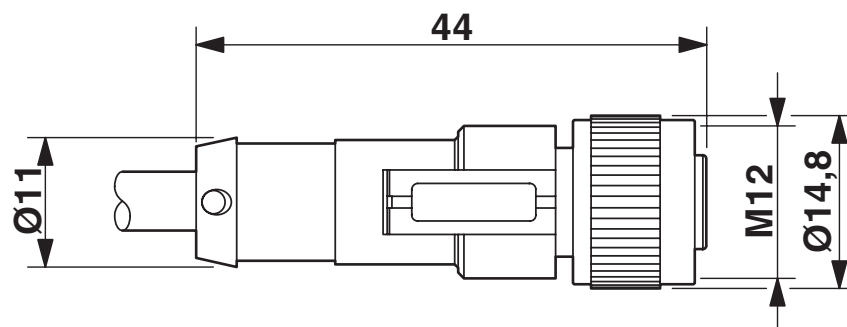
## Drawings

Dimensional drawing



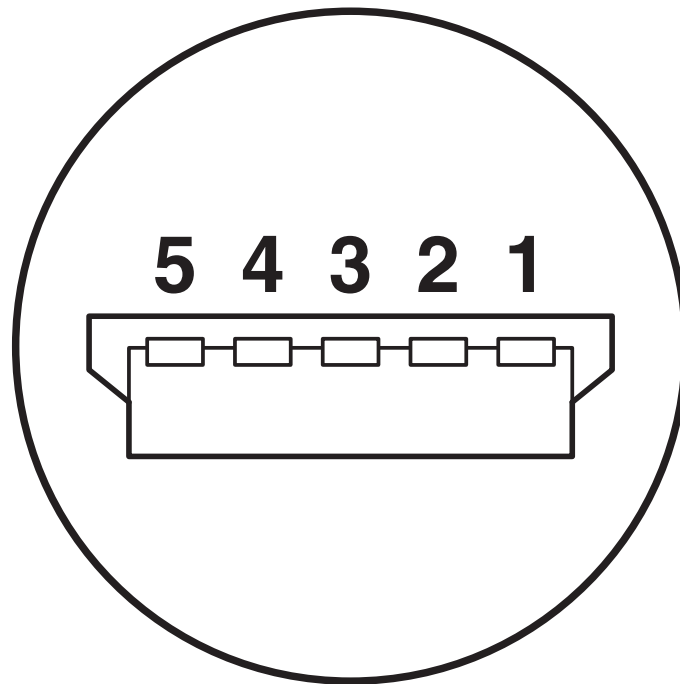
USB connector, type A, Standard

Dimensional drawing



Mini USB, M12 x 1 socket, straight

## Schematic diagram



Pin assignment plug USB, mini B

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## Approvals

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**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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