

## straight\_in\_line\_receptacle\_with\_break\_away\_and\_push\_pull\_locking\_for\_bend\_relief

size: 1, IP68, keying: a, number\_of\_contacts: 3, solder\_cup, contact\_type: sockets, Signal



### Basic information

|                    |                     |
|--------------------|---------------------|
| Part number        | K21KAC-P03LPH0-500S |
| Category           | connector           |
| Type of connector  | in_line_receptacle  |
| Assembly situation | straight            |
| Size               | 1                   |

### Contact insert description

|                        |            |
|------------------------|------------|
| Transmission type      | Signal     |
| Number of contacts     | 3          |
| Contact type           | sockets    |
| Contact diameter       | 1.3 mm     |
| Termination type       | solder_cup |
| Termination diameter   | 1.1 mm     |
| Wire cross section AWG | AWG 20     |

### Technical information

|                                              |                             |                                            |
|----------------------------------------------|-----------------------------|--------------------------------------------|
| Nominal current single contact               | 12 A                        | IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003) |
| Max. current insert                          | 12                          | VDE 0298-4:2003                            |
| Test voltage                                 | 1.5 kV AC                   | SAE AS 13441:1998 method 3001.1            |
| Max. creepage distance (contact to contact)  | 0.9 mm (Contact to housing) |                                            |
| Max. creepage distance (contact to housing)  | 0.7 mm (Contact to housing) |                                            |
| Max. clearance distance (contact to contact) | 0.9 mm (Contact to contact) |                                            |
| Max. clearance distance (contact to housing) | 0.7 mm (Contact to housing) |                                            |

### Cable description

|                     |                   |
|---------------------|-------------------|
| Cable outlet        | cable_bend_relief |
| Min. cable diameter | 4.5               |
| Max. cable diameter | 5                 |

**Mechanical and environmental data**

|                            |                        |
|----------------------------|------------------------|
| Locking principle          | break_away , push_pull |
| Keying                     | a                      |
| Mating cycles              | 5000                   |
| IP class                   | IP68                   |
| Max. operating temperature | 120 °C                 |
| Min. operating temperature | -40 °C                 |

ip\_protection\_class\_refers\_to\_mated\_condition

**Material and surface treatments**

|                    |                                  |
|--------------------|----------------------------------|
| Material           | cu_alloy_with_matt_chrome_finish |
| Insulator material | peek                             |
| Contact material   | cu_alloy_with_gold_finish        |

## DIMENSIONS



## CODING: 30°



## POSITIONS: 3 Positions



### Further technical information and downloads

[3D-File \[STP File\]](#)

[Technical specifications](#)