

# Product data sheet

## Yamaïchi connectors

### Straight cable plug with back nut for Bend Relief

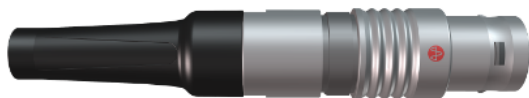


## + Bend Relief (051,Black)

YCP-BPR09ACX-07MSCBX-051B

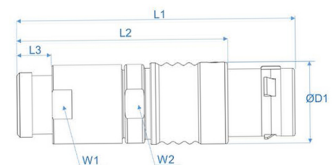
YCP-BPR09ACX-07MSCBX-051B

<https://www.ac-solutions.be/en/product/ycpbpr09acx07mscbx051b>



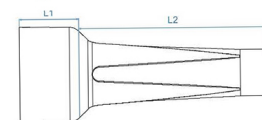
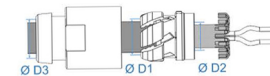
#### Dimensions [mm]

|         |           |         |
|---------|-----------|---------|
| D1= 9.0 | L1= ~37.6 | W1= 8.0 |
|         | L2= ~28.5 | W2= 8.0 |
|         | L3= 4.6   |         |



#### Dimensions [mm]

|         |
|---------|
| D1= 5.1 |
| D2= 5.0 |
| D3= 5.3 |



## Specifications

### General Characteristics

|                            |                      |
|----------------------------|----------------------|
| Pin count                  | 7 Pins               |
| Size                       | Size 09              |
| Housing variant            | Standard             |
| Insulator Variant          | Standard             |
| IP Grade (to contact)      | IP50                 |
| IP Grade (to housing)      | IP50                 |
| Mating cycles              | 5000 Times           |
| Min. operating temperature | -40 °C               |
| Max. operating temperature | +120 °C              |
| Short Term Max. Temp       | +260 °C              |
| Vibration [Hz]             | 20 [10 Hz - 2000 Hz] |
| Shock resistance           | 50 [ 6 ms]           |
| Salt Spray Corrosion       | >144 Hours           |
| Shielding (10 MHz)         | >75 Db               |

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|                                   |                          |
|-----------------------------------|--------------------------|
| Shielding (1 GHz)                 | >55 Db                   |
| Contact Diameter                  | 0.5 mm                   |
| Terminal cross section            | Max AWG 28 / 0,09 mm²    |
| Contact Type                      | Male: Solder Contacts    |
| Cable collet type                 | 51                       |
| Cable diameter range              | >4,0 to 5,1 mm           |
| RoHS                              | 2011/65/EU (2015/863/EU) |
| Bend relief part number           | YCP-ABR09BT051X          |
| Bend relief cable diameter range  | >4,5 to 5,1 mm           |
| Bend relief colour                | Black                    |
| Bend relief operating temperature | -40 to 110 °C            |
| Bend relief L1                    | 5.5 mm                   |
| Bend relief L2                    | 21.5 mm                  |

## Electrical Parameters

|                                  |        |
|----------------------------------|--------|
| Current rating per contact       | 2.5 A  |
| Test Voltage Contact-Contact RMS | 1 kV   |
| Test Voltage Contact-Shell RMS   | 0.8 kV |
| Contact Resistance               | 9,5 ?  |

## Material

|                              |                                  |
|------------------------------|----------------------------------|
| Connector type digit         | PR                               |
| Housing Material             | Brass                            |
| Housing surface              | Chrome                           |
| Contact Material and Surface | CuZn38Pb2 / min 0.75µm Au        |
| Insulator Material           | PEEK (UL)                        |
| Bend relief material         | TPU (Thermoplastic polyurethane) |