

# MICROCNX® SERIES CONNECTORS

**MicroCNX® Connectors** introduce a new category of aseptic micro-connectors that provide a simple, efficient method of connecting tubing for small-format biomanufacturing assemblies. MicroCNX connectors are the modern alternative to the cumbersome, industrial process of tube welding. Building on the inventiveness of CPC, the leader in single-use connection technology, the MicroCNX line of connectors is engineered specifically for the challenging conditions of biologic media transfer in bioprocessing, cell therapy and gene therapy applications.



## SPECIFICATIONS

### OPERATING PRESSURE

Up to 60 psi, 4.1 bar  
Up to 75 psi, 5.1 bar for 48 hours

### OPERATING TEMPERATURE

34°F to 104°F (1°C to 40°C)

### TERMINATIONS

1/16", 3/32" 1/8" ID hose barb (1.6mm, 2.4mm, 3.2mm)

### MATERIALS

**Main Components:** Polycarbonate (white), USP Class VI, ADCF

**Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF

**Protective Cover:** Polypropylene (teal), USP Class VI, ADCF

**Membrane:** Hydrophobic Polyethersulfone, USP Class VI

### STERILIZATION

**Gamma:** Up to 50kGy irradiation.

**Autoclave:** One cycle up to 266°F (130°C) for 60 minutes

## FEATURES

PINCH-CLICK-PULL →

Easy to use →

Genderless →

CPC Click →

## BENEFITS

Intuitive three-step connection process reduces risk of operator error

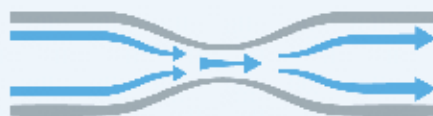
Lowers risk of operator error and related performance, reliability and safety concerns

Eases single-use systems specifications with one part number for both halves

Audible confirmation of assembly with no additional hardware required

## TYPICAL FLOW RATE

**Cv Value Range:** 0.04-0.27  
for MicroCNX hose barb terminations



*Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.*

**Caution:** CPC does not recommend the use of PVC tubing with the polycarbonate MicroCNX® Series Connectors. Leachables from PVC tubing could be incompatible with polycarbonate material and affect product performance. Determining product application suitability is solely the customer's responsibility. CPC does not guaranty or warrant product suitability for any application or use.

## NOTE

Validation and Extractables data can be requested at [cpcworldwide.com/MicroCNX](http://cpcworldwide.com/MicroCNX)

## DID YOU KNOW

MicroCNX connectors eliminate the need to purchase, calibrate, validate, maintain, and allocate clean room space for tube welding equipment.

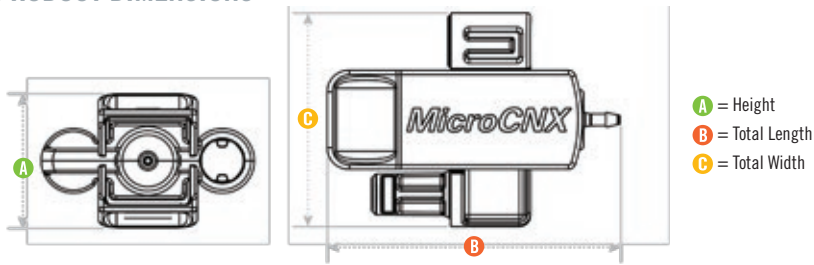
# MICROCNX® SERIES DIMENSIONS AND WEIGHTS

POLYCARBONATE with teal cover For autoclave or gamma irradiation applications.



TERMINATION	METRIC EQ.	PART NO.	A	B	C	PART WEIGHT
1/16" HOSE BARB	1.6 mm	CNX17001HT	0.93" (23.6 mm)	2.05" (52.1 mm)	1.49" (37.8 mm)	0.27 oz (7.64 g)
3/32" HOSE BARB	2.4 mm	CNX17003HT	0.93" (23.6 mm)	2.16" (54.9 mm)	1.49" (37.8 mm)	0.27 oz (7.62 g)
1/8" HOSE BARB	3.2 mm	CNX17002HT	0.93" (23.6 mm)	2.25" (57.2 mm)	1.49" (37.8 mm)	0.27 oz (7.60 g)

## PRODUCT DIMENSIONS



## MICROCNX® CONNECTORS ASSEMBLY PROCEDURE

### PINCH



Remove the protective cover on each half.

### CLICK



Join halves and click together.

### PULL



Pull membrane strips directly away from the connector.

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