



## CPC - Medical Connector

### **Reliable and low cost for disposable or re-useable applications**

- Suitable for surgical power instrument, RF and ultrasound ablation and EP monitors used in the O.R.
- Grip area with push-pull action
- Robust self-latching mechanism
- Gold-plated contacts
- Sterilizable
  - Autoclave, STERRAD, CIDEK+, EtO
- Available contact types 5, 6, 7, 10 positions
- Lightweight housing is resistant to shock, drop and chemically induced cracking.
- Accommodates cables OD from 2.7 to 6.5 mm
- Available in either black or gray housing and optional color coding for mating polarization
- MEDLOC II enhanced latch release



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# CPC - Medical Connector

## KEY FEATURES

- Connectors are user friendly, sterilizable, robust and provide secure self-latching
- Can be overmolded with silicone or PVC flex reliefs for cable strain and flex protection
- Available with an integral cable collet or an overmolded flex relief
- Self-latching mechanism is secure under axial and torsional loads
- Overmolded flex-reliefs can be customized per customer requirements

## ELECTRICAL

- Operating Voltage - 300 VAC
- Current rating - 5 position - 7A  
6 position - 6A  
7 position - 5A  
10 position - 3A
- Dielectric Withstanding Voltage - 1200 VAC
- Insulation Resistance - 1000 megohms
- Contact Resistance - 20 milliohms max

## MECHANICAL

- Durability: 2500 cycles
- Temperature Rating: -50° to 170° C
- Mating Force: 2.5 lbs max
- Unmating Force: 1.0 lb min

## MATERIALS

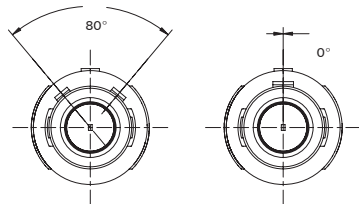
- Housing, Insert, Collet & Nut - Polyphenylsulfone
- Contacts - Copper Alloy, Gold Finish
- Hex Nut - Copper Alloy, Nickel Finish

## STANDARDS & SPECS

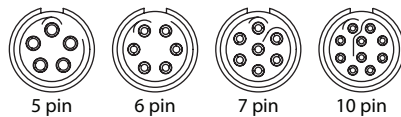
- EIA-364: Electrical Connector/Socket Test procedure Including Environmental Classifications

## PRODUCT OFFERING

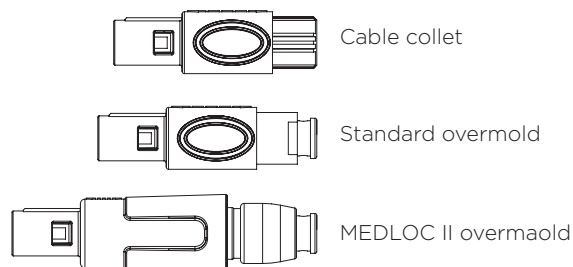
Keying (plug front view):



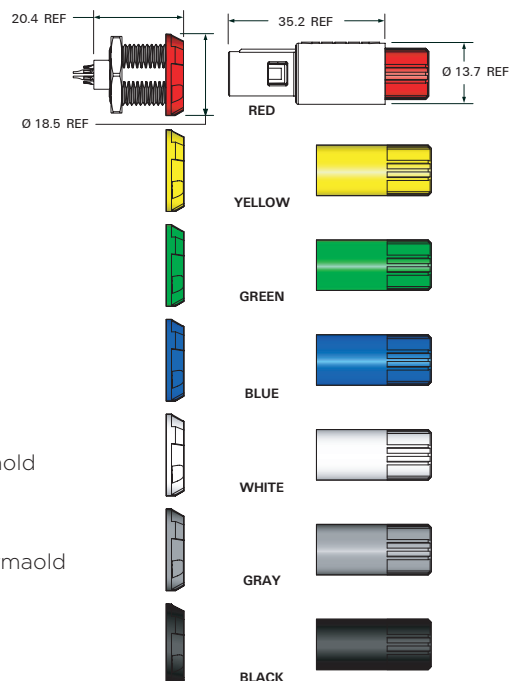
Contact Configuration:



Cable flex/strain reliefs:



Color Coded Receptacles and Plugs



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6-1773445-3-GIC-03-28-2007

Contact your local Tyco Electronics sales engineer for availability of additional configurations or complete cable assemblies.

 **Tyco Electronics**  
Our commitment. Your advantage.

## PART NUMBERS

### Cable Plugs - Cable Collet - No Flex Relief

#### 5 pin 0° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | <a href="#">Cable Diameter<br/>Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|-----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877845-3                  | 1877845-2                                     | 1877845-1                  |
|               | RED          | 1-1877845-5                | 1-1877845-4                                   | 1-1877845-3                |
|               | WHITE        | 2-1877845-7                | 2-1877845-6                                   | 2-1877845-5                |
|               | YELLOW       | 3-1877845-9                | 3-1877845-8                                   | 3-1877845-7                |
|               | GREEN        | 5-1877845-1                | 5-1877845-0                                   | 4-1877845-9                |
|               | BLUE         | 6-1877845-3                | 6-1877845-2                                   | 6-1877845-1                |
| GRAY          | GRAY         | 1877845-9                  | 1877845-8                                     | 1877845-7                  |
|               | RED          | 2-1877845-1                | 2-1877845-0                                   | 1-1877845-9                |
|               | WHITE        | 3-1877845-3                | 3-1877845-2                                   | 3-1877845-1                |
|               | YELLOW       | 4-1877845-5                | 4-1877845-4                                   | 4-1877845-3                |
|               | GREEN        | 5-1877845-7                | 5-1877845-6                                   | 5-1877845-5                |
|               | BLUE         | 6-1877845-9                | 6-1877845-8                                   | 6-1877845-7                |

#### 5 pin 80° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | <a href="#">Cable Diameter<br/>Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|-----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877845-6                  | 1877845-5                                     | 1877845-4                  |
|               | RED          | 1-1877845-8                | 1-1877845-7                                   | 1-1877845-6                |
|               | WHITE        | 3-1877845-0                | 2-1877845-9                                   | 2-1877845-8                |
|               | YELLOW       | 4-1877845-2                | 4-1877845-1                                   | 4-1877845-0                |
|               | GREEN        | 5-1877845-4                | 5-1877845-3                                   | 5-1877845-2                |
|               | BLUE         | 6-1877845-6                | 6-1877845-5                                   | 6-1877845-4                |
| GRAY          | GRAY         | 1-1877845-2                | 1-1877845-1                                   | 1-1877845-0                |
|               | RED          | 2-1877845-4                | 2-1877845-3                                   | 2-1877845-2                |
|               | WHITE        | 3-1877845-6                | 3-1877845-5                                   | 3-1877845-4                |
|               | YELLOW       | 4-1877845-8                | 4-1877845-7                                   | 4-1877845-6                |
|               | GREEN        | 6-1877845-0                | 5-1877845-9                                   | 5-1877845-8                |
|               | BLUE         | 7-1877845-2                | 7-1877845-1                                   | 7-1877845-0                |

#### 6 pin 0° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | <a href="#">Cable Diameter<br/>Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|-----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877846-3                  | 1877846-2                                     | 1877846-1                  |
|               | RED          | 1-1877846-5                | 1-1877846-4                                   | 1-1877846-3                |
|               | WHITE        | 2-1877846-7                | 2-1877846-6                                   | 2-1877846-5                |
|               | YELLOW       | 3-1877846-9                | 3-1877846-8                                   | 3-1877846-7                |
|               | GREEN        | 5-1877846-1                | 5-1877846-0                                   | 4-1877846-9                |
|               | BLUE         | 6-1877846-3                | 6-1877846-2                                   | 6-1877846-1                |
| GRAY          | GRAY         | 1877846-9                  | 1877846-8                                     | 1877846-7                  |
|               | RED          | 2-1877846-1                | 2-1877845-0                                   | 1-1877846-9                |
|               | WHITE        | 3-1877846-3                | 3-1877846-2                                   | 3-1877846-1                |
|               | YELLOW       | 4-1877846-5                | 4-1877846-4                                   | 4-1877846-3                |
|               | GREEN        | 5-1877846-7                | 5-1877846-6                                   | 5-1877846-5                |
|               | BLUE         | 6-1877846-9                | 6-1877846-8                                   | 6-1877846-7                |

#### 6 pin 80° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | <a href="#">Cable Diameter<br/>Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|-----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877846-6                  | 1877846-5                                     | 1877846-4                  |
|               | RED          | 1-1877846-8                | 1-1877846-7                                   | 1-1877846-6                |
|               | WHITE        | 3-1877846-0                | 2-1877846-9                                   | 2-1877846-8                |
|               | YELLOW       | 4-1877846-2                | 4-1877846-1                                   | 4-1877846-0                |
|               | GREEN        | 5-1877846-4                | 5-1877846-3                                   | 5-1877846-2                |
|               | BLUE         | 6-1877846-6                | 6-1877846-5                                   | 6-1877846-4                |
| GRAY          | GRAY         | 1-1877846-2                | 1-1877846-1                                   | 1-1877846-0                |
|               | RED          | 2-1877846-4                | 2-1877846-3                                   | 2-1877846-2                |
|               | WHITE        | 3-1877846-6                | 3-1877846-5                                   | 3-1877846-4                |
|               | YELLOW       | 4-1877846-8                | 4-1877846-7                                   | 4-1877846-6                |
|               | GREEN        | 6-1877846-0                | 5-1877846-9                                   | 5-1877846-8                |
|               | BLUE         | 7-1877846-2                | 7-1877846-1                                   | 7-1877846-0                |

## Cable Plugs - Cable Collet - No Flex Relief

### 7 pin 0° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | Cable Diameter<br><a href="#">Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877847-3                  | 1877847-2                                    | 1877847-1                  |
|               | RED          | 1-1877847-5                | 1-1877847-4                                  | 1-1877847-3                |
|               | WHITE        | 2-1877847-7                | 2-1877847-6                                  | 2-1877847-5                |
|               | YELLOW       | 3-1877847-9                | 3-1877847-8                                  | 3-1877847-7                |
|               | GREEN        | 5-1877847-1                | 5-1877847-0                                  | 4-1877847-9                |
|               | BLUE         | 6-1877847-3                | 6-1877847-2                                  | 6-1877847-1                |
| GRAY          | GRAY         | 1877847-9                  | 1877847-8                                    | 1877847-7                  |
|               | RED          | 2-1877847-1                | 2-1877847-0                                  | 1-1877847-9                |
|               | WHITE        | 3-1877847-3                | 3-1877847-2                                  | 3-1877847-1                |
|               | YELLOW       | 4-1877847-5                | 4-1877847-4                                  | 4-1877847-3                |
|               | GREEN        | 5-1877847-7                | 5-1877847-6                                  | 5-1877847-5                |
|               | BLUE         | 6-1877847-9                | 6-1877847-8                                  | 6-1877847-7                |

### 7 pin 80° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | Cable Diameter<br><a href="#">Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877847-6                  | 1877847-5                                    | 1877847-4                  |
|               | RED          | 1-1877847-8                | 1-1877847-7                                  | 1-1877847-6                |
|               | WHITE        | 3-1877847-0                | 2-1877847-9                                  | 2-1877847-8                |
|               | YELLOW       | 4-1877847-2                | 4-1877847-1                                  | 4-1877847-0                |
|               | GREEN        | 5-1877847-4                | 5-1877847-3                                  | 5-1877847-2                |
|               | BLUE         | 6-1877847-6                | 6-1877847-5                                  | 6-1877847-4                |
| GRAY          | GRAY         | 1-1877847-2                | 1-1877847-1                                  | 1-1877847-0                |
|               | RED          | 2-1877847-4                | 2-1877847-3                                  | 2-1877847-2                |
|               | WHITE        | 3-1877847-6                | 3-1877847-5                                  | 3-1877847-4                |
|               | YELLOW       | 4-1877847-8                | 4-1877847-7                                  | 4-1877847-6                |
|               | GREEN        | 6-1877847-0                | 5-1877847-9                                  | 5-1877847-8                |
|               | BLUE         | 7-1877847-2                | 7-1877847-1                                  | 7-1877847-0                |

### 10 pin 0° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | Cable Diameter<br><a href="#">Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877848-3                  | 1877848-2                                    | 1877848-1                  |
|               | RED          | 1-1877848-5                | 1-1877848-4                                  | 1-1877848-3                |
|               | WHITE        | 2-1877848-7                | 2-1877848-6                                  | 2-1877848-5                |
|               | YELLOW       | 3-1877848-9                | 3-1877848-8                                  | 3-1877848-7                |
|               | GREEN        | 5-1877848-1                | 5-1877848-0                                  | 4-1877848-9                |
|               | BLUE         | 6-1877848-3                | 6-1877848-2                                  | 6-1877848-1                |
| GRAY          | GRAY         | 1877848-9                  | 1877848-8                                    | 1877848-7                  |
|               | RED          | 2-1877848-1                | 2-1877848-0                                  | 1-1877848-9                |
|               | WHITE        | 3-1877848-3                | 3-1877848-2                                  | 3-1877848-1                |
|               | YELLOW       | 4-1877848-5                | 4-1877848-4                                  | 4-1877848-3                |
|               | GREEN        | 5-1877848-7                | 5-1877848-6                                  | 5-1877848-5                |
|               | BLUE         | 6-1877848-9                | 6-1877848-8                                  | 6-1877848-7                |

### 10 pin 80° Alignment Key

| Housing Color | Collet Color | <a href="#">Ø2.7 - 3.9</a> | Cable Diameter<br><a href="#">Ø4.0 - 5.2</a> | <a href="#">Ø5.3 - 6.5</a> |
|---------------|--------------|----------------------------|----------------------------------------------|----------------------------|
| BLACK         | BLACK        | 1877848-6                  | 1877848-5                                    | 1877848-4                  |
|               | RED          | 1-1877848-8                | 1-1877848-7                                  | 1-1877848-6                |
|               | WHITE        | 3-1877848-0                | 2-1877848-9                                  | 2-1877848-8                |
|               | YELLOW       | 4-1877848-2                | 4-1877848-1                                  | 4-1877848-0                |
|               | GREEN        | 5-1877848-4                | 5-1877848-3                                  | 5-1877848-2                |
|               | BLUE         | 6-1877848-6                | 6-1877848-5                                  | 6-1877848-4                |
| GRAY          | GRAY         | 1-1877848-2                | 1-1877848-1                                  | 1-1877848-0                |
|               | RED          | 2-1877848-4                | 2-1877848-3                                  | 2-1877848-2                |
|               | WHITE        | 3-1877848-6                | 3-1877848-5                                  | 3-1877848-4                |
|               | YELLOW       | 4-1877848-8                | 4-1877848-7                                  | 4-1877848-6                |
|               | GREEN        | 6-1877848-0                | 5-1877848-9                                  | 5-1877848-8                |
|               | BLUE         | 7-1877848-2                | 7-1877848-1                                  | 7-1877848-0                |

**Cable Plugs - Overmold Flex Relief - Cable OD Ø6.4 mm Max**

| Contacts | Keying | Color      | Standard                        | MEDLOC II                 |
|----------|--------|------------|---------------------------------|---------------------------|
| 5P       | 0°     | Black..... | <a href="#">1877849-1</a> ..... | <a href="#">1811797-1</a> |
| 5P       | 80°    | Black..... | <a href="#">1877849-2</a> ..... | <a href="#">1811797-2</a> |
| 5P       | 0°     | Gray.....  | 1877849-3 .....                 | 1811797-3                 |
| 5P       | 80°    | Gray.....  | 1877849-4 .....                 | 1811797-4                 |
| 6P       | 0°     | Black..... | <a href="#">1877850-1</a> ..... | <a href="#">1811897-1</a> |
| 6P       | 80°    | Black..... | <a href="#">1877850-2</a> ..... | <a href="#">1811897-2</a> |
| 6P       | 0°     | Gray.....  | 1877850-3 .....                 | 1811897-3                 |
| 6P       | 80°    | Gray.....  | 1877850-4 .....                 | 1811897-4                 |
| 7P       | 0°     | Black..... | <a href="#">1877851-1</a> ..... | <a href="#">1811798-1</a> |
| 7P       | 80°    | Black..... | <a href="#">1877851-2</a> ..... | <a href="#">1811798-2</a> |
| 7P       | 0°     | Gray.....  | 1877851-3.....                  | 1811798-3                 |
| 7P       | 80°    | Gray.....  | 1877851-4 .....                 | 1811798-4                 |
| 10P      | 0°     | Black..... | <a href="#">1877852-1</a> ..... | <a href="#">1811799-1</a> |
| 10P      | 80°    | Black..... | <a href="#">1877852-2</a> ..... | <a href="#">1811799-2</a> |
| 10P      | 0°     | Gray.....  | 1877852-3.....                  | 1811799-3                 |
| 10P      | 80°    | Gray.....  | 1877852-4 .....                 | 1811799-4                 |

**Panel Mount - Receptacles**

| Contacts | Keying | Color      | Part number               |
|----------|--------|------------|---------------------------|
| 5P       | 0°     | Gray ..... | <a href="#">1877066-1</a> |
| 5P       | 0°     | Black..... | 1877066-2                 |
| 5P       | 80°    | Gray ..... | <a href="#">1877066-3</a> |
| 5P       | 80°    | Black..... | 1877066-4                 |
| 6P       | 0°     | Gray ..... | <a href="#">1877067-1</a> |
| 6P       | 0°     | Black..... | 1877067-2                 |
| 6P       | 80°    | Gray ..... | <a href="#">1877067-3</a> |
| 6P       | 80°    | Black..... | 1877067-4                 |
| 7P       | 0°     | Gray ..... | <a href="#">1877068-1</a> |
| 7P       | 0°     | Black..... | 1877068-2                 |
| 7P       | 80°    | Gray ..... | <a href="#">1877068-3</a> |
| 7P       | 80°    | Black..... | 1877068-4                 |
| 10P      | 0°     | Gray ..... | <a href="#">1877069-1</a> |
| 10P      | 0°     | Black..... | 1877069-2                 |
| 10P      | 80°    | Gray ..... | <a href="#">1877069-3</a> |
| 10P      | 80°    | Black..... | 1877069-4                 |

**Front Nut**

RED..... 1811448-1  
 WHITE ..... 1811448-2  
 YELLOW ..... 1811448-3  
 GREEN..... 1811448-4  
 BLUE ..... 1811448-5

**Back Nut**

RED ..... 1877841-1  
 WHITE..... 1877841-2  
 YELLOW..... 1877841-3  
 GREEN ..... 1877841-4  
 BLUE..... 1877841-5

**Wrench**

GRAY..... 195457-1

**NOTES:**

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