



## 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

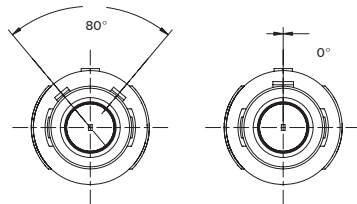
- Housing, Insert, Collet & Nut - Polyphenylsulfone
- Contacts - Copper Alloy, Gold Finish
- Hex Nut - Copper Alloy, Nickel Finish

## STANDARDS & SPECS

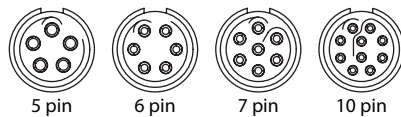
- EIA-364: Electrical Connector/Socket Test procedure Including Environmental Classifications

## PRODUCT OFFERING

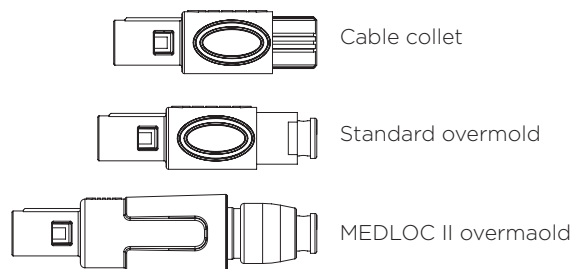
Keying (plug front view):



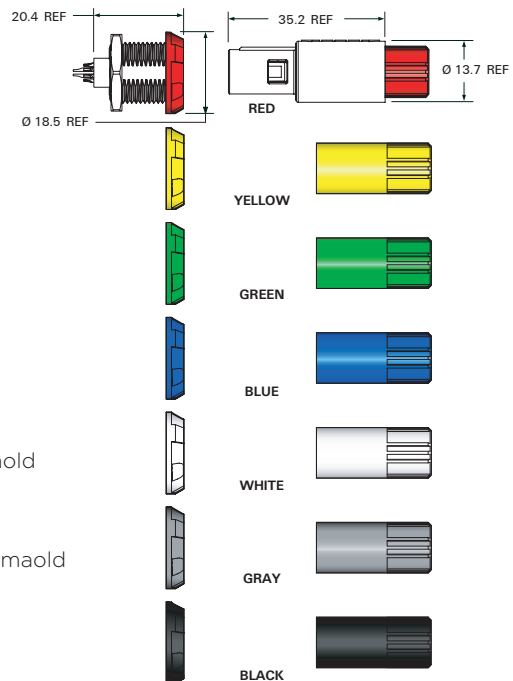
Contact Configuration:



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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 | <u>Ø2.7 - 3.9</u> | Cable Diameter<br><u>Ø4.0 - 5.2</u> | <u>Ø5.3 - 6.5</u> |
|---------------|--------------|-------------------|-------------------------------------|-------------------|
| 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 |
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**NOTES:**

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