



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



Click the active links within this document to view 3D PDF models!

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

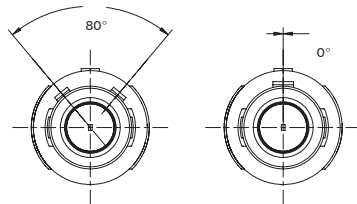
- Housing, Insert, Collet & Nut - Polyphenylsulfone
- Contacts - Copper Alloy, Gold Finish
- Hex Nut - Copper Alloy, Nickel Finish

STANDARDS & SPECS

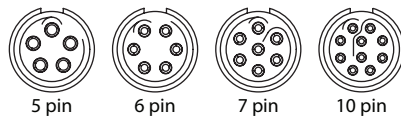
- EIA-364: Electrical Connector/Socket Test procedure Including Environmental Classifications

PRODUCT OFFERING

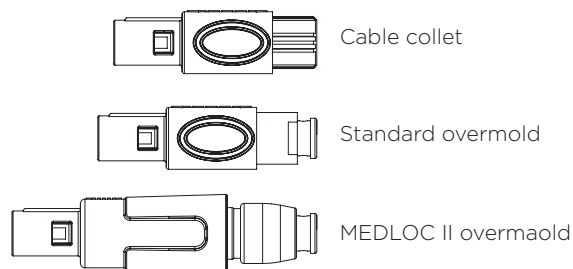
Keying (plug front view):



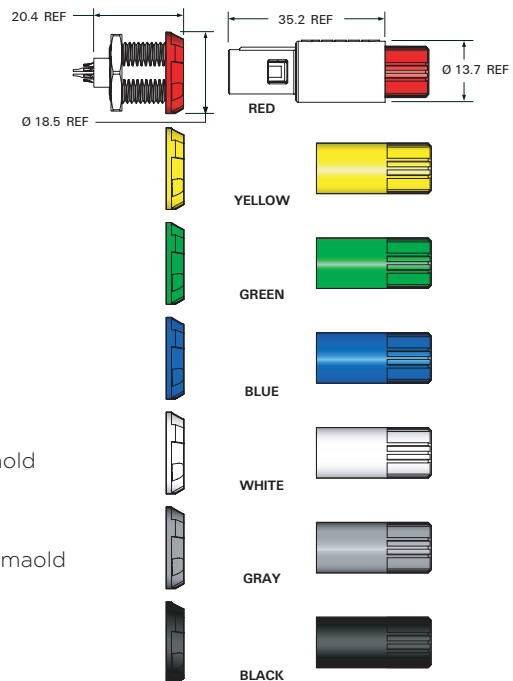
Contact Configuration:



Cable flex/strain reliefs:



Color Coded Receptacles and Plugs



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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 <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 <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 <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 <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 <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 <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 <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 <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..... | 1877849-1 | 1811797-1 |
| 5P | 80° | Black..... | 1877849-2 | 1811797-2 |
| 5P | 0° | Gray..... | 1877849-3 | 1811797-3 |
| 5P | 80° | Gray..... | 1877849-4 | 1811797-4 |
| 6P | 0° | Black..... | 1877850-1 | 1811897-1 |
| 6P | 80° | Black..... | 1877850-2 | 1811897-2 |
| 6P | 0° | Gray..... | 1877850-3 | 1811897-3 |
| 6P | 80° | Gray..... | 1877850-4 | 1811897-4 |
| 7P | 0° | Black..... | 1877851-1 | 1811798-1 |
| 7P | 80° | Black..... | 1877851-2 | 1811798-2 |
| 7P | 0° | Gray..... | 1877851-3 | 1811798-3 |
| 7P | 80° | Gray..... | 1877851-4 | 1811798-4 |
| 10P | 0° | Black..... | 1877852-1 | 1811799-1 |
| 10P | 80° | Black..... | 1877852-2 | 1811799-2 |
| 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 | 1877066-1 |
| 5P | 0° | Black..... | 1877066-2 |
| 5P | 80° | Gray | 1877066-3 |
| 5P | 80° | Black..... | 1877066-4 |
| 6P | 0° | Gray | 1877067-1 |
| 6P | 0° | Black..... | 1877067-2 |
| 6P | 80° | Gray | 1877067-3 |
| 6P | 80° | Black..... | 1877067-4 |
| 7P | 0° | Gray | 1877068-1 |
| 7P | 0° | Black..... | 1877068-2 |
| 7P | 80° | Gray | 1877068-3 |
| 7P | 80° | Black..... | 1877068-4 |
| 10P | 0° | Gray | 1877069-1 |
| 10P | 0° | Black..... | 1877069-2 |
| 10P | 80° | Gray | 1877069-3 |
| 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:
