PCR series provides bellows-contact type high-density connectors, which can support a wide variety of applications. The PCR is a sister series of PCS series connectors, since accessories such as backshell and termination tool can be shared between the PCR and PCS series.

**Features**

- Board-to-cable connectors provide a wide variety of contacts, 20 - 96 contacts.
- EMI-filtered design meets FCC and other standards.
- Board-to-board connectors also provide a wide variety of contacts, 20 - 128 contacts.
- Allows live wire connections for power terminals and signal terminals in three stages.
- Backshell with mating guide for preventing short circuit allows parallel mating.
- Best suited for parallel, horizontal, or vertical-stacked connections.

**Principal Applications**

Office automation equipment, instrumentation equipment, communications equipment, factory automation, etc.

### Electrical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>Board-to-board connector</th>
<th>Board-to-cable connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>250V AC (r.m.s.)</td>
<td>250V AC (r.m.s.)</td>
</tr>
<tr>
<td>Rated current</td>
<td>1 A</td>
<td>1 A</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>Over 1000 megohms at 500V DC</td>
<td>Over 1000 megohms at 250V DC</td>
</tr>
<tr>
<td>Dielectric withstanding voltage</td>
<td>750V AC (r.m.s.) for up to one minute</td>
<td>500V AC (r.m.s.) for up to one minute</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>35 milliohms or less</td>
<td>35 milliohms or less</td>
</tr>
</tbody>
</table>

**Document Disclaimer**

- When placing orders with us, minimum order quantities are set for every product.
- Be sure to contact us before starting preliminary design of PCBs using our connectors.
- The specifications and information shown in the catalog are subject to change without notice.
The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow temperature profile.

**Applicable products**
PCR-E( MY+)
PCR-E( MY-SLT)

The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.

**Applicable products**
PCR series through hole type connector
Dimensions in combination of various connectors for reference purposes

Board-to-board connector dimensions for reference purposes

Board-to-cable connector dimensions for reference purposes

PCB-side Connectors: For PCR-E ( ) LMD+

<table>
<thead>
<tr>
<th>Number of contacts</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>t</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>35 or more</td>
<td>36 or more</td>
<td>46.8 or more</td>
<td>2.7</td>
<td>Thickness of panel</td>
</tr>
<tr>
<td>28</td>
<td>40 or more</td>
<td>54 or more</td>
<td>51.8 or more</td>
<td>3.7</td>
<td>t = 1.6 MAX.</td>
</tr>
<tr>
<td>36</td>
<td>45.1 or more</td>
<td>41 or more</td>
<td>54.5 or more</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>54 or more</td>
<td>51.8 or more</td>
<td>54.5 or more</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>65.4 or more</td>
<td>41 or more</td>
<td>54.5 or more</td>
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<td></td>
</tr>
<tr>
<td>96</td>
<td>65.2 or more</td>
<td>41 or more</td>
<td>54.5 or more</td>
<td>3.7</td>
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</table>

Panel mounting-hole dimensions for reference purposes

<table>
<thead>
<tr>
<th>Number of contacts</th>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td>20</td>
<td>27.40</td>
<td>23.8</td>
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<tr>
<td>28</td>
<td>32.48</td>
<td>28.9</td>
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<td>36</td>
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<td>34.0</td>
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<tr>
<td>50</td>
<td>46.45</td>
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<td>68</td>
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<tr>
<td>96</td>
<td>75.66</td>
<td>72.1</td>
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**Product List**

Right-angle through hole type female connector for PCB  
PCR-( )LFD( )+

**B-78**  
PCR series...6

Straight through hole type female connector for PCB  
PCR-( )PD( )+

**B-79**  
PCR series...7

Right-angle through hole type male connector for PCB  
PCR-( )LMD( )+

**B-80**  
PCR series...8

Straight through hole type male connector for PCB  
PCR-E( )MD+

**B-82**  
PCR series...10

Right-angle through hole type male connector for PCB  
(PC with screw lock)  
PCR-E( )MD-SL+

**B-83**  
PCR series...11

Cable-side IDC type female connector  
PCR-E( )F( )+

**B-86**  
PCR series...14

Cable-side soldering type female connector  
PCR-E( )FS+

**B-87**  
PCR series...15

Right-angle through hole type male connector for PCB  
(PC with screw lock)  
PCR-E( )LMD( )+

**B-84**  
PCR series...12

Straight through hole type male connector for PCB  
(PC with screw lock)  
PCR-E( )FS+

**B-88**  
PCR series...16

Straight SMT type male connector for PCB  
PCR-E( )MY+

**B-91**  
PCR series...19

Straight SMT type male connector for PCB  
(PC with screw lock)  
PCR-E( )MY-SL+

**B-92**  
PCR series...20

Right-angle SMT type male connector for PCB  
PCR-E( )LMY+

**B-93**  
PCR series...21

Right-angle SMT type male connector for PCB  
(PC with screw lock)  
PCR-E( )LMY-SL+

**B-94**  
PCR series...22

Cable-side soldering type female connector  
PCR-S( )FS+

**B-95**  
PCR series...23

Vertical type plastic backshell for cable extension  
PCR-S( )PMLA2+S

**B-96**  
PCR series...24

Vertical type plastic backshell  
(PC with screw lock)  
PCR-V20L( )

**B-97**  
PCR series...25
Vertical type plastic backshell (with screw lock)
PCR-LS(LA)
B-98
PCR series...26

Vertical type plastic backshell (without screw lock)
PCR-S20LA
B-99
PCR series...27
1.27 mm pitch connector

Right-angle through hole type female connector for PCB
PCR-( )LFD( )+

● Configuration of product Part No.

<table>
<thead>
<tr>
<th>PCR- ( ) LFD ( )+</th>
</tr>
</thead>
<tbody>
<tr>
<td>①  ②  ③  ④</td>
</tr>
</tbody>
</table>

① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
   LFD: Right-angle through hole type, female
④ Board lock
   K: With kink formed contacts
   T: With board lock pins

● Components

1. Insulator
2. Female contacts
3. Bracket
4. Board lock pins

Mating connectors: PCR-( )MDC( )+, PCR-( )LMD( )+)
Straight through hole type female connector for PCB
PCR-( )FD( )+

- **Configuration of product Part No.**
  
  **PCR-( ) FD ( )+**
  
  ① Series name
  ② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
  ③ Type of connector
     FD: Straight through hole type, female
  ④ Board lock
     K: With kink-formed
     T: With board lock pins contacts

- **Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-20FD( )+</td>
<td>22.74</td>
<td>13.34</td>
<td>11.43</td>
<td>17.94</td>
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<td>PCR-34FD( )+</td>
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<td>20.32</td>
<td>26.83</td>
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<td>PCR-48FD( )+</td>
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<td>PCR-68FD( )+</td>
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<td>PCR-80FD( )+</td>
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<td>51.44</td>
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<td>PCR-96FD( )+</td>
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<td>66.20</td>
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</tr>
<tr>
<td>PCR-128FD( )+</td>
<td>91.32</td>
<td>81.92</td>
<td>80.01</td>
<td>86.52</td>
<td>88.90</td>
</tr>
</tbody>
</table>

  *Note: These products are under consideration.

- **Components**

  ① Insulator
  ② Contacts
  ③ Board lock pins

  **Components** for 20, 48, 68, 80, 96 or 128-contact connectors.

- **Recommended PCB layout**

  For 20, 40, 48, 68, 80, 96 or 128-contact connectors.

- **Mating connectors:** PCR-( )MD( )+, PCR-( )LMD( )+
HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type male connector for PCB
PCR-( )LMD( )+

1. Configuration of product Part No.

PCR- ( ) LMD ( )+
① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
   LMD: Right-angle through hole type, male
④ Board lock
   K: With kink formed contacts
   T: With board lock pins

2. Components
   ① Insulator
   ② contacts
   ③ Bracket
   ④ Board lock pins

3. Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-20LMD( )+</td>
<td>22.74</td>
<td>13.14</td>
<td>11.43</td>
<td>18.14</td>
<td>20.32</td>
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<td>31.63</td>
<td>22.03</td>
<td>20.32</td>
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<td>43.62</td>
<td>41.91</td>
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<td>50.80</td>
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<tr>
<td>PCR-80LMD( )+</td>
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<td>49.53</td>
<td>56.24</td>
<td>58.42</td>
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<td>59.69</td>
<td>66.40</td>
<td>68.58</td>
</tr>
<tr>
<td>PCR-128LMD( )+</td>
<td>91.32</td>
<td>81.72</td>
<td>80.01</td>
<td>86.72</td>
<td>88.90</td>
</tr>
</tbody>
</table>

*Note 1: These products are under consideration.
*Note 2: PCR-48LMD+ or PCR-128LMD+ products are under consideration.

Mating connectors: PCR-( )FD( )+, PCR-( )LFD( )+
Straight through hole type male connector for PCB
PCR-( )MD( )+

Configuration of product Part No.

PCR-( ) MD ( )+

① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
  MD: Straight through hole type, male
④ Board lock
  K: With kink-formed contacts

Components

① Insulator
② Male contacts

4 kink-formed contacts for 20, 48, 68, 80, 96 or 128-contact connectors.

Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-20MD( )+</td>
<td>22.74</td>
<td>13.14</td>
<td>11.43</td>
<td>18.14</td>
</tr>
<tr>
<td>PCR-34MD( )+</td>
<td>31.63</td>
<td>22.03</td>
<td>20.32</td>
<td>27.03</td>
</tr>
<tr>
<td>PCR-48MD( )+</td>
<td>40.52</td>
<td>30.92</td>
<td>29.21</td>
<td>35.92</td>
</tr>
<tr>
<td>PCR-68MD( )+</td>
<td>53.22</td>
<td>43.62</td>
<td>41.91</td>
<td>48.62</td>
</tr>
<tr>
<td>PCR-80MD( )+</td>
<td>60.84</td>
<td>51.24</td>
<td>49.53</td>
<td>56.24</td>
</tr>
<tr>
<td>PCR-96MD( )+</td>
<td>71.00</td>
<td>61.40</td>
<td>59.69</td>
<td>66.40</td>
</tr>
<tr>
<td>PCR-128MD( )+</td>
<td>91.32</td>
<td>81.72</td>
<td>80.01</td>
<td>86.72</td>
</tr>
</tbody>
</table>

*Note: These products are under consideration.
Straight through hole type male connector for PCB
PCR-E( )MD+

● Configuration of product Part No.

PCR-E ( ) MD+

1 Series name
2 No. of contacts: 20, 28, 36, 50, 68, 80 or 96
3 Type of connector
MD: Straight through hole type, male

● Components

1 Contacts
2 Insulator
3 Shell

● Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
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<td>33.40</td>
<td>27.40</td>
<td>13.20</td>
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<td>20.43</td>
<td>22.43</td>
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<td>PCR-E28MD+</td>
<td>38.48</td>
<td>32.48</td>
<td>18.28</td>
<td>16.51</td>
<td>21.53</td>
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<td>27.51</td>
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<td>PCR-E36MD+</td>
<td>43.56</td>
<td>37.56</td>
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<td>31.76</td>
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<td>32.59</td>
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<tr>
<td>PCR-E50MD+</td>
<td>52.45</td>
<td>46.45</td>
<td>32.25</td>
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<td>40.65</td>
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<td>41.48</td>
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<td>PCR-E68MD+</td>
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<td>57.88</td>
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<td>64.71</td>
<td>69.86</td>
<td>68.69</td>
<td>70.69</td>
</tr>
</tbody>
</table>

Mating connectors: PCR series cable-side IDC type female connector
PCR series cable-side soldering type female connector

Accessories: Dust-proof cap, PCS-E()C

Recommended PCB layout

Except 50-contact connector

Except 50-contact connector

HONDA TSUSHIN KOGYO CO., LTD.

1.27 mm pitch connector
For PCB
Straight Through hole
EMI-filtered

RoHS
**Straight through hole type male connector for PCB (with screw lock)**

**PCR-E( )MD-SL+**

**Configuration of product Part No.**

**PCR-E( )MD-SL+**

1. Series name
2. No. of contacts: 20, 28, 36, or 50
3. Type of connector
   - MD: Straight through hole type, male
4. With screw locks

**Components**

- **Contacts**
- **Insulator**
- **Shell**
- **Spring washers**
- **Screw locks**

**Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20MD-SL+</td>
<td>33.40</td>
<td>27.40</td>
<td>13.20</td>
<td>16.43</td>
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<td>22.43</td>
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<tr>
<td>PCR-E28MD-SL+</td>
<td>38.48</td>
<td>32.48</td>
<td>18.28</td>
<td>16.51</td>
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<td>25.51</td>
<td>27.51</td>
</tr>
<tr>
<td>PCR-E36MD-SL+</td>
<td>43.56</td>
<td>37.56</td>
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<td>32.59</td>
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<tr>
<td>PCR-E50MD-SL+</td>
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<td>35.50</td>
<td>40.65</td>
<td>39.48</td>
<td>41.48</td>
</tr>
</tbody>
</table>

**Mating connectors:**
- PCR series cable-side IDC type female connector
- PCR series cable-side soldering type female connector

**Accessories:**
- Dust-proof cap, PCS-E( )C

---

**HONDA TSUSHIN KOGYO CO., LTD.**

---

1.27 mm pitch connector

For PCB

Straight Through hole

EMI-filtered

RoHS
Right-angle through hole type male connector for PCB
PCR-E( )LMD( )+

- **1.27 mm pitch connector**
- **For PCB**
- **Right-angle Through hole**
- **EMI-filtered**

- **Configuration of product Part No.**
  - **PCR-E( )LMD( )+**
    - **Series name**
    - **No. of contacts:** 20, 28, 36, 50, 68 or 96
    - **Type of connector**
      - LMD: Right-angle through hole type, male connector
    - **Thickness of panel**
      - Blank: $t = 1.6 \text{ mm MAX.}$
      - A: $t = 2.1 \text{ mm MAX.}$, electrostatic noise resistant (ESD resistant)
      - B: $t = 2.1 \text{ mm MAX.}$, electrostatic noise resistant (ESD resistant)

- **Components**
  - **Contacts**
  - **Insulator**
  - **Shell**
  - **Bracket**

- **Dimensions**

- **Mating connectors:** PCR series cable-side IDC type female connector
- **PCR series cable-side soldering type female connector**

- **Accessories:** Dust-proof cap, PCS-E( )C

- **Recommended PCB layout**

---

**Part No.**

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<th>POS.#2</th>
<th>POS.#1</th>
<th>POS.#2</th>
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</tr>
</tbody>
</table>

**Contact length**

- **Panel thickness**
  - 1.6mm MAX.

---

**Recommended PCB layout**

**Connector mating side**

**Reference pin**

---

**Recommended PCB layout**

---

**Recommended PCB layout**
Right-angle through hole type male connector for PCB (with screw lock)
PCR-E( )LMD-SL+

- 1 Series name
- 2 No. of contacts: 20, 28, 36 or 50
- 3 Type of connector
  LMD: Right-angle through hole type, male connector
- 4 With screw locks

Configuration of product Part No.

PCR-E ( ) LMD- SL+

- Components
  ① Contacts
  ② Insulator
  ③ Shell
  ④ Bracket
  ⑤ Screw locks
  ⑥ Spring washers

- Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20LMD-SL+</td>
<td>33.40</td>
<td>27.40</td>
<td>11.43</td>
<td>13.20</td>
<td>16.45</td>
<td>21.60</td>
<td>20.23</td>
</tr>
<tr>
<td>PCR-E28LMD-SL+</td>
<td>38.48</td>
<td>32.48</td>
<td>16.51</td>
<td>18.28</td>
<td>21.53</td>
<td>26.68</td>
<td>25.31</td>
</tr>
<tr>
<td>PCR-E36LMD-SL+</td>
<td>43.56</td>
<td>37.56</td>
<td>21.59</td>
<td>23.36</td>
<td>26.61</td>
<td>31.76</td>
<td>30.39</td>
</tr>
<tr>
<td>PCR-E50LMD-SL+</td>
<td>52.45</td>
<td>46.45</td>
<td>30.48</td>
<td>32.25</td>
<td>35.50</td>
<td>40.65</td>
<td>39.28</td>
</tr>
</tbody>
</table>

Mating connectors: PCR series cable-side IDC type female connector
PCR series cable-side soldering type female connector

Accessories: Dust-proof cap, PCS-E( )C

- 1.27 mm pitch connector
  For PCB
  Right-angle Through hole
  EMI-filtered
  RoHS
1.27 mm pitch connector

For cable

IDC

RoHS

Cable-side IDC type female connector

PCR-E ( ) F( )+

● Configuration of product Part No.

<table>
<thead>
<tr>
<th>PCR-E ( ) F( )+</th>
</tr>
</thead>
<tbody>
<tr>
<td>① ② ③</td>
</tr>
<tr>
<td>Series name</td>
</tr>
<tr>
<td>② No. of contacts: 20, 28, 36, 50, 68, 80, or 96</td>
</tr>
<tr>
<td>③ Cable sizes for reference purposes (In case the cable sheath is made of PVC resin)</td>
</tr>
<tr>
<td>F : AWG#26(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.8-1 mm. For loose wire.</td>
</tr>
<tr>
<td>FA: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.5-0.65 mm. For loose wire.</td>
</tr>
<tr>
<td>FB: AWG#32(7 / 0.1). Outside diameter of wire is 0.5-0.65 mm. For loose wire.</td>
</tr>
<tr>
<td>FC: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). For flat cable, t = 1.0 mm MAX. (See Note #1)</td>
</tr>
<tr>
<td>FD: AWG#30(7 / 0.1). For flat cable, t = 1.0 mm MAX. (See Note #1)</td>
</tr>
<tr>
<td>FH: AWG#32(7 / 0.08). Outside diameter of wire is 0.35-0.5 mm. For loose wire. (See Note #2)</td>
</tr>
<tr>
<td>FJ : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.65-0.8 mm. For loose wire. (See Note #2)</td>
</tr>
<tr>
<td>FK: AWG#30(7 / 0.1). Outside diameter of wire is 0.65-0.8 mm. For loose wire. (See Note #2)</td>
</tr>
</tbody>
</table>

POS. #2
POS. #1

Form of 96-contact connector

Part No. marked on the opposite surface.

HONDA is marked on the opposite surface.

Except of 50-contact connector

Note 1:
FC is not available for 96-contact connector.
FD is not available for 20, 80, or 96-contact connectors.

Note 2:
FH is available only for 68-contact connector.
FJ is available for 28, or 96-contact connectors.
FK is available only for 96-contact connector.

Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20F( )+</td>
<td>21.65</td>
<td>13.35</td>
<td>11.43</td>
<td>16.25</td>
</tr>
<tr>
<td>PCR-E28F( )+</td>
<td>26.7</td>
<td>18.43</td>
<td>16.51</td>
<td>21.33</td>
</tr>
<tr>
<td>PCR-E36F( )+</td>
<td>31.8</td>
<td>23.51</td>
<td>21.59</td>
<td>26.41</td>
</tr>
<tr>
<td>PCR-E50F( )+</td>
<td>40.7</td>
<td>32.4</td>
<td>30.48</td>
<td>35.3</td>
</tr>
<tr>
<td>PCR-B68F( )+</td>
<td>52.1</td>
<td>43.23</td>
<td>41.91</td>
<td>46.73</td>
</tr>
<tr>
<td>PCR-E80F( )+</td>
<td>57.9</td>
<td>51.45</td>
<td>49.53</td>
<td>54.35</td>
</tr>
<tr>
<td>PCR-E96F( )+</td>
<td>69.9</td>
<td>61.61</td>
<td>59.69</td>
<td>64.51</td>
</tr>
</tbody>
</table>

Components

| ① ② ③ ④ ⑤ |
| Contacts     |
| Insulator    |
| Shell        |
| Spacer       |
| Cable housings |

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector

RoHS

Tool: (Refer to page Tool-12)
Cable-side soldering type female connector
PCR-E( )FS+

Configuration of product Part No.
PCR-E( )FS+

1. Series name
2. No. of contacts: 20, 28, 36, 50, 68 or 96
3. Type of connector
   FS: Soldering type, female, AWG#20 MAX.

Components
- Contacts
- Insulator
- Shell
- Spacer

For 50-contact connector

Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20FS+</td>
<td>21.65</td>
<td>13.35</td>
<td>11.43</td>
<td>16.25</td>
</tr>
<tr>
<td>PCR-E28FS+</td>
<td>26.70</td>
<td>18.43</td>
<td>16.51</td>
<td>21.33</td>
</tr>
<tr>
<td>PCR-E36FS+</td>
<td>31.80</td>
<td>23.51</td>
<td>21.59</td>
<td>26.41</td>
</tr>
<tr>
<td>PCR-E50FS+</td>
<td>40.70</td>
<td>32.40</td>
<td>30.48</td>
<td>35.30</td>
</tr>
<tr>
<td>PCR-E68FS+</td>
<td>52.10</td>
<td>43.83</td>
<td>41.91</td>
<td>46.73</td>
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<tr>
<td>PCR-E96FS+</td>
<td>69.90</td>
<td>61.61</td>
<td>56.69</td>
<td>64.51</td>
</tr>
</tbody>
</table>

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector
PCR-E series PCB-side straight through hole type or SMT type connector
1.27 mm pitch connector
For panel
IDC
EMI-filtered
RoHS

Cable-side IDC type male connector
for mounting on a panel
PCR-E( ) PM( )

- Mating connectors: PCR series cable-side IDC type or soldering type female connector
- Accessories: Dust-proof cap, PCS-E(J)C
- Tool: (Refer to page Tool-12)

**Configuration of product Part No.**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>➀ Contact</td>
<td>26 contacts: 20, 28, 36, 50, 56, 68, 96</td>
</tr>
<tr>
<td>➁ Insulator</td>
<td></td>
</tr>
<tr>
<td>➂ Shell</td>
<td></td>
</tr>
<tr>
<td>➃ Spacer</td>
<td></td>
</tr>
<tr>
<td>➄ Cable housing</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended panel cut-out dimensions**

- Width: 7.5 mm
- Height: 2-M2.5

**Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20PM( )</td>
<td>33.40</td>
<td>27.40</td>
<td>15.43</td>
<td>13.20</td>
<td>21.60</td>
<td>21.65</td>
<td>23.80</td>
<td>16.45</td>
</tr>
<tr>
<td>PCR-E28PM( )</td>
<td>38.48</td>
<td>32.48</td>
<td>16.51</td>
<td>18.28</td>
<td>26.68</td>
<td>26.70</td>
<td>28.90</td>
<td>21.53</td>
</tr>
<tr>
<td>PCR-E36PM( )</td>
<td>43.56</td>
<td>37.56</td>
<td>21.59</td>
<td>23.36</td>
<td>31.76</td>
<td>31.80</td>
<td>34.00</td>
<td>26.61</td>
</tr>
<tr>
<td>PCR-E50PM( )</td>
<td>52.45</td>
<td>46.45</td>
<td>30.48</td>
<td>32.25</td>
<td>40.65</td>
<td>40.70</td>
<td>42.90</td>
<td>35.50</td>
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<tr>
<td>PCR-E68PM( )</td>
<td>63.88</td>
<td>57.88</td>
<td>41.91</td>
<td>43.68</td>
<td>52.08</td>
<td>52.10</td>
<td>54.60</td>
<td>46.93</td>
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<tr>
<td>PCR-E96PM( )</td>
<td>81.66</td>
<td>75.66</td>
<td>59.69</td>
<td>61.46</td>
<td>69.86</td>
<td>69.90</td>
<td>72.10</td>
<td>64.71</td>
</tr>
</tbody>
</table>

- Note 1: PMB is not available for 28-contact Connector.
- PMC is not available for 96-contact connector.
- Note 2: PMD is available only for 50 or 68-contact connectors.
Cable-side soldering type male connector for mounting on a panel
PCR-E( )PMRS+

Configuration of product Part No.

PCR-E( )PMRS+

1. Series name
2. No. of contacts: 20 or 28
3. Type of connector: Panel mount type, male
   Outside diameter of wire is 2.2 mm MAX.

Components

- Contacts
- Insulator
- Shell
- Bushing

Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20PMRS+</td>
<td>33.40</td>
<td>27.40</td>
<td>13.20</td>
<td>11.43</td>
<td>16.45</td>
<td>21.60</td>
<td>19.40</td>
<td>23.80</td>
</tr>
<tr>
<td>PCR-E28PMRS+</td>
<td>38.48</td>
<td>32.48</td>
<td>18.28</td>
<td>16.51</td>
<td>21.53</td>
<td>26.68</td>
<td>24.45</td>
<td>28.88</td>
</tr>
</tbody>
</table>

Mating connectors: PCR series cable-side IDC type or soldering type female connector
Accessories: Dust-proof cap, PCS-E( )C
Straight SMT type male connector for PCB
PCR-E( )MY+

- **Configuration of product Part No.**
  - **Series name**
  - **No. of contacts: 20 or 36**
  - **Type of connector**
    - MY: Straight SMT type, male

**Components**
- Insulator
- Contacts
- Shell

**Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20MY+</td>
<td>33.40</td>
<td>27.40</td>
<td>11.43</td>
<td>16.45</td>
<td>13.20</td>
<td>21.60</td>
<td>22.32</td>
</tr>
<tr>
<td>PCR-E36MY+</td>
<td>43.56</td>
<td>37.56</td>
<td>21.59</td>
<td>26.61</td>
<td>23.36</td>
<td>31.76</td>
<td>32.48</td>
</tr>
</tbody>
</table>

**Mating connectors:** PCR series cable-side IDC type or soldering type female connector
**Accessories:** Dust-proof cap, PCS-E( )CP
Straight SMT type male connector for PCB (with screw lock)
PCR-E( )MY-SL+

- Configuration of product Part No.

<table>
<thead>
<tr>
<th>PCR-E( ) MY-SL+</th>
<th>①</th>
<th>②</th>
<th>③</th>
<th>④</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of contacts: 20 or 36</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of connector</td>
<td>MY: Straight SMT type, male</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With screw locks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Components

| ① | Insulator |
| ② | Contacts  |
| ③ | Shell     |
| ④ | Spring washers |
| ⑤ | Screw locks |

- Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E20MY-SL+</td>
<td>33.40</td>
<td>27.40</td>
<td>11.43</td>
<td>16.45</td>
<td>13.20</td>
<td>21.60</td>
<td>22.32</td>
</tr>
<tr>
<td>PCR-E36MY-SL+</td>
<td>43.56</td>
<td>37.56</td>
<td>21.60</td>
<td>26.81</td>
<td>23.36</td>
<td>31.76</td>
<td>32.48</td>
</tr>
</tbody>
</table>

- Mating connectors: PCR series cable-side IDC type or soldering type female connector
- Accessories: Dust-proof cap, PCS-E( )CP

Recommended PCB layout:
- Land diameter: 4
- Lot No. is marked on the opposite surface
- Screw size: M2

HONDA TSUSHIN KOGYO CO., LTD.

1.27 mm pitch connector
For PCB
Straight SMT
EMI-filtered
RoHS
Right-angle SMT type male connector for PCB
PCR-E( )LMY+

● Configuration of product Part No.

PCR-E ( ) LMY+

1. Series name
2. No. of contacts: 36 or 50
3. Type of connector
   LMY: Right-angle SMT type, male

Mating connectors:
PCR series cable-side IDC type or soldering type female connector

Accessories:
Dust-proof cap, PCS-E ( ) CP

Components
1. Contacts
2. Insulator
3. Shell

Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E36LMY+</td>
<td>43.56</td>
<td>52.45</td>
<td>17.5</td>
<td>11.6 REF.</td>
<td>5.9</td>
<td>3.6 REF.</td>
<td>0.85</td>
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<td>2.6 REF.</td>
</tr>
<tr>
<td>PCR-E50LMY+</td>
<td>52.45</td>
<td>52.45</td>
<td>17.5</td>
<td>11.6 REF.</td>
<td>5.9</td>
<td>3.6 REF.</td>
<td>0.85</td>
<td>0.85</td>
<td>2.6 REF.</td>
</tr>
</tbody>
</table>

Recommended PCB layout

Recommended panel cut-out dimensions

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E ( ) CP

Others
- Wire wrapping
- Crimping
- Soldering
- IDC
- Press-in
- SMT
- Through hole
1.27 mm pitch connector
For PCB
Right-angle SMT
EMI-filtered
RoHS

Right-angle SMT type male connector for PCB
(with screw lock)
PCR-E ( ) LMY-SL+

Configuration of product Part No.

PCR-E ( ) LMY- SL+

1. Series name
2. No. of contacts: 36 or 50
3. Type of connector
   LMY: Right-angle SMT type, male
4. With screw locks

Components

1. Contacts
2. Insulator
3. Shell
4. Screw locks
5. Spring washers

Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-E36LMY-SL+</td>
<td>43.56</td>
<td>37.56</td>
<td>21.59</td>
<td>26.61</td>
<td>31.76</td>
<td>28.70</td>
<td>30.39</td>
<td>34.00</td>
<td>4.20</td>
<td></td>
</tr>
<tr>
<td>PCR-E50LMY-SL+</td>
<td>52.45</td>
<td>46.45</td>
<td>30.48</td>
<td>35.50</td>
<td>40.65</td>
<td>37.59</td>
<td>39.28</td>
<td>42.89</td>
<td>5.20</td>
<td></td>
</tr>
</tbody>
</table>

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )CP

Recommended PCB layout

Recommended panel cut-out dimensions
Cable-side soldering type female connector
PCR-S( )FS+

● Configuration of product Part No.

**PCR-S ( ) FS+**

1. Series name
2. No. of contacts: 20, 28, 36 or 50
3. Type of connector
   FS: Soldering type, female, AWG#20 MAX.

● Components

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Contacts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>②</td>
<td>Shell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>③</td>
<td>Insulator</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

● Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-S20FS+</td>
<td>19.40</td>
<td>13.35</td>
<td>11.43</td>
<td>16.25</td>
</tr>
<tr>
<td>PCR-S28FS+</td>
<td>24.48</td>
<td>18.43</td>
<td>16.51</td>
<td>21.33</td>
</tr>
<tr>
<td>PCR-S36FS+</td>
<td>29.56</td>
<td>23.51</td>
<td>21.59</td>
<td>26.41</td>
</tr>
<tr>
<td>PCR-S50FS+</td>
<td>38.45</td>
<td>32.40</td>
<td>30.48</td>
<td>35.30</td>
</tr>
</tbody>
</table>

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector

---

For cable
Soldering
EMI-Filtered

RoHS

---

Wire wrapping
Crimping
Soldering
IDC
Press-in
SMT
Through hole

---

HONDA TSUSHIN KOGYO CO., LTD.
Vertical type plastic backshell for cable extension
PCR-S( )PMLA2+S

- Configuration of product Part No.
  PCR-S( )PMLA2+S

  ① Series name
  ② No. of contacts: 20 or 28
  ③ Vertical type backshell for PCR-E( )PMRS-SL+

- Components
  ① Housing
  ② Screw
  ③ Hex nuts

- Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-S20PMLA2+S</td>
<td>33.4</td>
<td>28.4</td>
<td>42.0</td>
<td>10.4</td>
<td>-</td>
</tr>
<tr>
<td>PCR-S28PMLA2+S</td>
<td>38.5</td>
<td>33.5</td>
<td>43.0</td>
<td>14.5</td>
<td>16.5</td>
</tr>
</tbody>
</table>

Mating connectors: PCR-E( )PMRS-SL+
Vertical type plastic backshell (without screw lock)
PCR-V20L( )

- **Components**
  1. Housing
  2. Lock hardware
  3. Clamp

- **Configuration of product Part No.**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series name</td>
<td>No. of contacts: 20</td>
<td>For use with specific cable sizes</td>
</tr>
<tr>
<td>PCR-V20L( )</td>
<td>20</td>
<td>A: Outside diameter of cable is 6 mm. B: Outside diameter of cable is 8 mm.</td>
</tr>
</tbody>
</table>

- **Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>For use with specific cable sizes (outside diameter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR-V20LA</td>
<td>ø6</td>
</tr>
<tr>
<td>PCR-V20LB</td>
<td>ø8</td>
</tr>
</tbody>
</table>

Mating connectors: PCR-E20F(), PCR-E20FS+.
**Vertical type plastic backshell (with screw lock)**

**PCR-LS( )LA( )**

- **Configuration of product Part No.**

<table>
<thead>
<tr>
<th>PCR-LS( )LA( )</th>
</tr>
</thead>
<tbody>
<tr>
<td>① ② ③</td>
</tr>
<tr>
<td>① Series name</td>
</tr>
<tr>
<td>② No. of contacts: 20, 28, 36 or 50</td>
</tr>
<tr>
<td>③ Vertical type backshell for PCR-S( )FS+</td>
</tr>
</tbody>
</table>

- **PCR-LS20LA1**: Max outside diameter of cable is 10 mm.
- **PCR-LS20LA**: Max outside diameter of cable is 10 mm.
- **PCR-LS28LA**: Max outside diameter of cable is 14.5 mm.
- **PCR-LS36LA**: Max outside diameter of cable is 15 mm.
- **PCR-LS50LA**: Max outside diameter of cable is 16 mm.

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**Mating connectors: PCR-S( )FS+**

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**Others**

- Through hole
- SMT
- Press-in
- IDC
- Soldering
- Crimping
- Wire wrapping
- Others
Vertical type plastic backshell (without screw lock)

PCR-S20LA

- **Configuration of product Part No.**

  **PCR-S20LA**
  
  ① Series name  
  ② No. of contacts: 20  
  ③ For use with specific cable sizes
  
  A: Outside diameter of cable is 8.5 mm.

- **Components**
  
  ① Housing  
  ② Lock hardware  
  ③ Clamp

- **Mating connectors:** PCR-S20FS+