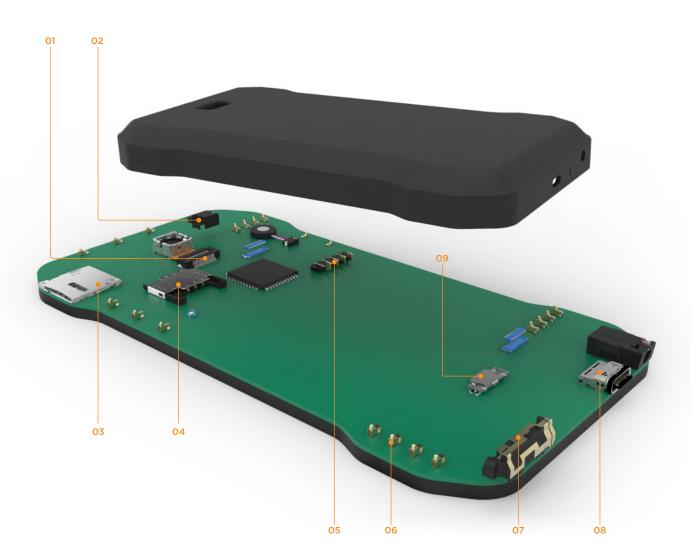


## **RUGGED MOBILE PHONES**

The demand for ubiquitous communication and connectivity is growing, as is the demand for waterproof, dustproof and shock-resistant designs and rugged mobile phones, which provide reliable communication even in harsh and extreme environments. As mobile functions and usage scenarios expand, there is increasing demand for highly reliable and flexible connectivity solutions.

TE Connectivity (TE) offers a broad range of space-saving and high-performance interconnects that address the challenges of next-generation rugged mobile phones. From antennas and memory cards to EMI shields and battery connectors, we support various design requirements for mobile devices to withstand extreme conditions.





- 01 FPC Connectors
- 02 Wi-Fi and GPS Antenna Connectors
- 03 Push-Push SIM Connectors
- 04 Memory Card Connectors
- 05 Mobile Battery Connectors

- 06 Spring Finger Connectors
- 07 LTE Main Antenna Connectors
- 08 USB Type-C Connectors
- 09 Board to Flex Connectors



## SOLUTIONS FOR RUGGED MOBILE PHONES

|                         | I∕O<br>USB Type-C Connectors   | CARD<br>Push-Push SIM Connectors   | CARD<br>Memory Card Connectors   |
|-------------------------|--|--|--|
|                         | so   |  |  |
| Key Part No.            | 2305018-2  | <u>2822541-1</u>   | <u>2201778-1</u>   |
| Key Product<br>Features | <ul> <li>Standard USB 3.1 Gen2</li> <li>True IP68 waterproof rating</li> <li>5 Amp power</li> <li>5-10 Gbps data rate</li> </ul>                             | <ul><li>Anti-buckling design</li><li>Wide portfolio and capacity</li></ul>   | <ul><li>Anti-buckling design</li><li>Low profile</li><li>Wide portfolio and large capacity</li></ul>   |
| Applications            | <ul> <li>Hand-held devices</li> <li>POS devices</li> <li>Gaming consoles</li> <li>Automotive (Infotainment)</li> <li>Industrial</li> <li>Security</li> </ul> | <ul> <li>Hand-held devices</li> <li>POS devices</li> <li>Gaming consoles</li> <li>Automotive (Infotainment)</li> <li>Industrial</li> <li>Security</li> </ul> | <ul> <li>Hand-held devices</li> <li>POS devices</li> <li>Gaming consoles</li> <li>Automotive (Infotainment)</li> <li>Industrial</li> <li>Security</li> </ul> |
| Literature              | USB Type-C Connectors  | Push-Push SIM Connectors   | Memory Card Connectors   |

|                         | GROUNDING<br>Spring Finger Connectors   | BATTERY<br>Mobile Battery Connectors   | BOARD TO BOARD<br>Board to Flex Connectors  |
|-------------------------|---|--|---|
|                         | 10000 2000 2000 2000 2000 2000 2000 200   |  |   |
| Key Part No.            | 2108613-5<br>2199001-1<br>1554901-1   | <u>2108074-2</u><br>2134758-1<br>1932859-1   | 4-2822378-0<br>4-2822384-0  |
| Key Product<br>Features | <ul> <li>Extensive off-the-shelf offering of spring fingers/grounding products</li> <li>Available in heights as low as 0.4mm and up to 7.0mm</li> <li>Type: standard, side-protected, pre-loaded, ultra low-profile</li> <li>The preload function nearly doubles the working area of a common spring finger and increases contact force by 0.2N.</li> </ul> | <ul> <li>Centerline of 2.5mm-6.5mm</li> <li>Various positions including 2, 3, 4, and 6</li> <li>Working height ranges from 0.4mm-6.7mm</li> <li>Wide current rating from 1.5 Amperes to 5 Amperes</li> </ul> | <ul> <li>0.4mm pitch board to FPC<br/>interconnect solution</li> <li>Visible mating operation</li> <li>Strong "U" spring structure offering<br/>strong retention</li> <li>Full EMI shielding</li> </ul> |
| Applications            | <ul> <li>Mobile phones</li> <li>Wearable devices</li> <li>Game consoles</li> <li>Tablets</li> <li>Patient monitoring devices</li> <li>POS scanners</li> <li>Security systems</li> <li>GPS devices</li> </ul>  | <ul> <li>Mobile phones</li> <li>PCs</li> <li>Cameras</li> <li>IoT</li> <li>Other portable devices</li> </ul>   | <ul> <li>Mobile phones</li> <li>Wearables</li> <li>Home appliances</li> <li>Laptops</li> <li>Ultraportable devices</li> <li>Game consoles</li> </ul>  |
| Literature              | Spring Finger Connectors  | Mobile Battery Connectors  | Board to Flex Connector   |



## SOLUTIONS FOR RUGGED MOBILE PHONES

|                         | FPC<br>FPC Connectors  | ANTENNA<br>LTE Main Antenna Connectors   | ANTENNA<br>Wi-Fi and GPS Antenna Connectors  |
|-------------------------|--|--|--|
|                         |  | 50   | <sup>50</sup>  |
| Key Part No.            | 1-2328702-0<br>1-2328724-5   | <u>2195350-1</u>   | <u>2195353-1</u>   |
| Key Product<br>Features | <ul> <li>Pitch: 0.25mm To 1.25mm</li> <li>Pin counts: 3 to 60 pins</li> <li>Slant FPC insertion option to maximize PCB layout area</li> <li>Low profile (less than 1mm) economical product offerings</li> <li>Wide portfolio enabling high design flexibility with proven quality &amp; reliability</li> </ul> | <ul> <li>Antenna structure is plastic carrier with FPC</li> <li>Antenna can cover world wide bands frequency</li> </ul>                                      | <ul> <li>Antenna combines Wi-Fi and GPS<br/>together, which can support Wi-Fi and<br/>GPS frequency</li> </ul>   |
| Applications            | <ul> <li>Hand-held scanners</li> <li>POS devices, set-top boxes, gaming consoles</li> <li>Business equipment</li> <li>Industrial controls, gas pumps, ATMs, slot machines</li> <li>Medical equipment</li> </ul>  | <ul> <li>Hand-held devices</li> <li>POS devices</li> <li>Gaming consoles</li> <li>Automotive (Infotainment)</li> <li>Industrial</li> <li>Security</li> </ul> | <ul> <li>Hand-held devices</li> <li>POS devices</li> <li>Gaming consoles</li> <li>Automotive (Infotainment)</li> <li>Industrial</li> <li>Security</li> </ul> |
| Literature              | FPC Connectors   | LTE Main Antenna Connectors  | Wi-Fi and GPS Antenna Connectors   |



These solutions are helping to unlock the potential of 5G. Our portfolio of 5G solutions and capabilities address key challenges faced by design engineers around the world.\*

## te.com

\* 5G ready solutions may vary within a product family. Please refer to te.com or contact your TE sales representative for additional information.

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