

# CMC sealed Full interconnect

## 32, 48, 64 & 112 ways

### Features

- ▶ CMC (Connecteur Modulaire pour Calculateur) is one of the most popular interfaces for Engine Management Electronic Control Units
- ▶ Sealed connector for Electronic Control Unit applications
- ▶ Mat seal and circumferential interface seal
- ▶ Accepts reversible wire dress cover
- ▶ Right or left mountable rotating lever for mate assistance
- ▶ Suitable for harsh environment
- ▶ 15 g sinus vibration resistant with Tin terminals
- ▶ 1.5 Bar pressure proof sealing
- ▶ Typical application: Powertrain Electronic Control Units



32 ways



48 ways



64 ways



112 ways

### Technical characteristics

| Number of ways              | 32 ways                        | 48 ways         | 64 ways         | 112 ways        |
|-----------------------------|--------------------------------|-----------------|-----------------|-----------------|
| Sealing protection          | IPx9K/IP68                     | IPx9K/IP68      | IPx9K/IP68      | IPx9K/IP68      |
| Terminals                   | 0.64 mm GTS-1<br>1.50 mm GTS-2 | 24<br>8         | 40<br>8         | 56<br>8         |
| Temperature range           | -40°C to +125°C                | -40°C to +125°C | -40°C to +125°C | -40°C to +125°C |
| Terminal retention force    | > 100 N                        | > 100 N         | > 100 N         | > 100 N         |
| Terminal insertion force    | < 10 N                         | < 10 N          | < 10 N          | < 10 N          |
| Connector mating force      | < 60 N                         | < 60 N          | < 60 N          | < 60 N          |
| Number of mechanical coding | Female housings                | 4               | 4               | 3               |

### Part numbers

| Pin headers     |                   | F670000 (blue) | 17464807 (black) | F932300 (black) | 1746B207M (black)  |
|-----------------|-------------------|----------------|------------------|-----------------|--------------------|
| Female housings | Black left lever  | -              | PPI0001494       | PPI0001500      | PPI0001487 (32 w)* |
|                 | Black right lever | -              | PPI0001495*      | PPI0001501*     | PPI0001488 (32 w)  |
|                 | Blue left lever   | PPI0001492     | -                | -               | -                  |
|                 | Blue right lever  | PPI0001493*    | -                | -               | -                  |
|                 | Brown left lever  | -              | -                | -               | F765000 (48 w)*    |
|                 | Brown right lever | -              | -                | -               | F865000 (48 w)     |
|                 | Grey left lever   | -              | -                | -               | PPI0001506 (32 w)  |
|                 | Grey right lever  | -              | -                | -               | PPI0001489 (32 w)* |
| Cover 32 ways   | Black             | PPI0001522*    | -                | -               | PPI0001522*        |
| Cover 48 ways   | Black             | -              | F965000*         | -               | F965000*           |
| Cover 64 ways   | Black             | -              | -                | PPI0001526*     | -                  |

Other color codings available, please consult us.

\* Preferred parts

# GTS Terminals

## 0.64 & 1.5 mm

### Features

- High performing one-piece terminal
- Lanceless version compatible with mat seal
- Temperature range -40 to +125°C
- Dual spring design with pre-loaded beam for enhanced contact force
- Low mating - unmating force
- Front protection of active beams



GTS 0.64 mm



GTS 1.5 mm

### Performance characteristics

| Terminal size          | 0.64 mm GTS-1 | 1.5 mm GTS-2 |
|------------------------|---------------|--------------|
| Pitch                  | 2.2 mm        | 3.5 mm       |
| Contact resistance     | < 5 mΩ        | < 4 mΩ       |
| Contact mating force   | < 5 N         | < 6 N        |
| Contact unmating force | < 3 N         | < 4 N        |

### Part Numbers

| Wire size range                               | 0.64 mm GTS-1 | 1.5 mm GTS-2 |
|---|---------------|--------------|
| Female terminals, Tin plated                  | PPI0001619    | -            |
| 0.35 mm <sup>2</sup> equivalent to AWG 22     | PPI0000489    | -            |
| 0.5 mm <sup>2</sup> equivalent to AWG 20      | -             | PPI0001483   |
| 1.25-1.3 mm <sup>2</sup> equivalent to AWG 16 | -             | PPI0001484   |
| 1.4-2 mm <sup>2</sup> equivalent to AWG 14    |               |              |

|            | 0.64 mm GTS-1 | 1.5 mm GTS-2 |
|------------|---------------|--------------|
| Dummy plug | PPI0001485    | PPI0001486   |

### Terminal Tooling

|                           | 0.64 mm GTS-1 | 1.5 mm GTS-2                             |
|---------------------------|---------------|--|
| Terminal extraction tool  | PPI0001590    | PPI0001592                               |
| Dummy plug insertion tool | PPI0001571    | PPI0001572                               |
| Hand Crimping tool        | CSV10         | CSV10                                    |
| Crimping die              | GTS0641M      | GTS1502M (for 1.25-1.3 mm <sup>2</sup> ) |
|                           |               | GTS1503M (for 1.4-2 mm <sup>2</sup> )    |

### CMC Tooling

|                    |         |
|--------------------|---------|
| Cover removal tool | C392000 |
|--------------------|---------|

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