



# CMC CONNECTION SYSTEM

## SELECTOR GUIDE



• APTIV •

# At Aptiv, we are born to move

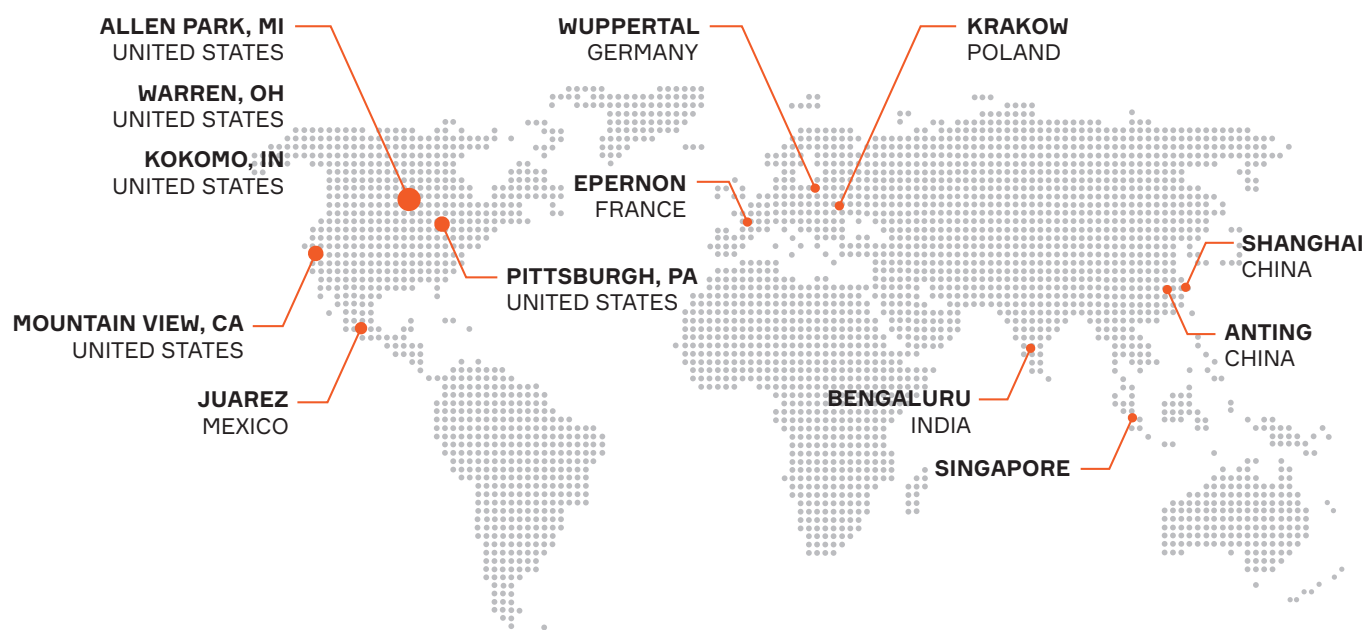
Aptiv is a **global technology company** that develops safer, greener and more connected solutions enabling the future of mobility.

Headquartered in Dublin, Aptiv has approximately 150,000 employees and operates 14 technical centers, as well as manufacturing sites and customer support centers in 45 countries.

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## Major Design Centers Worldwide





# A wide family range to fit your needs

CMC is one of the most popular interfaces for Engine Management and Electronic Control Units.

The compact connectors are sealed and have a high density of electrical contacts making them the ideal solution for harsh environments.



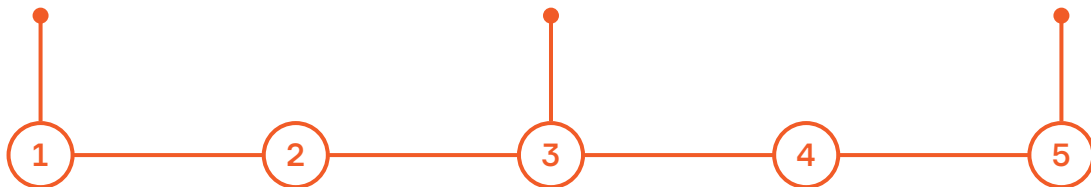
Headers



Dress Covers



Terminals



Connectors

Cavity Plugs & Tools



# Robust features, meaningful benefits

1

## A wide product range

- Headers, mating connectors, dress covers, terminals, seals & tools available
- Standard footprint interface
- Interchangeable with multiple industry solutions

2

## High quality & unique design

- 64 & 86 way connectors as single source product
- Smart design on female housing (mat seal, 0.64 mm terminal cavities closed – no cavity plug needed)
- Capable to endure 5 re-works (extraction and re-insertion of terminals)
- One of the best terminal current derating performances on the market

3

## Innovative technical features

- Clean-body terminal to prevent damage to the mat seal
- Highest vibration resistance on the market with 15 gravity rating
- Aptiv patents:
  - Front holder for Terminal Position Assurance (TPA) mating security
  - Polarization by the rear seal holder at the early stage of terminal insertion



# Associated Parts

## CAVITY PLUGS

### 32, 48, 64 & 86 WAY

| Part number | Terminal size (mm) | Color | Application                                     |
|-------------|--------------------|-------|-------------------------------------------------|
| 13768626    | 0.64               | White | Insertion of a wrong cavity - repairing purpose |
| 13826722    | 1.50               | Blue  | Unloaded 1.5 mm cavity                          |

## SEALS & CAVITY PLUGS

### 86 WAY

| Part number | Type             | Terminal size (mm) | Color  |
|-------------|------------------|--------------------|--------|
| 10736278    | Single Wire Seal | 0.5 - 0.85         | Yellow |
| 10736279    | Single Wire Seal | 1.0 - 2.0          | Green  |
| 10779162    | Single Wire Seal | 0.5 - 1.0          | Blue   |
| 13578695    | Single Wire Seal | 1.25               | Brown  |
| 10779159    | Single Wire Seal | 1.5 - 2.0          | Red    |
| 10779161    | Single Wire Seal | 2.5                | Yellow |
| 10787316    | Single Wire Seal | 1.5                | White  |
| 10779160    | Single Wire Seal | 2.8                | Green  |
| 13629105    | Cavity Plug      | 0.64               | White  |

## TOOLS

| Part number | Application                       |
|-------------|-----------------------------------|
| 10915564    | 0.64 mm terminal extraction       |
| 10915565    | 1.5 mm terminal extraction        |
| 10915566    | Cover removal                     |
| 33105886    | 0.64 mm dummy plug insertion      |
| 33105887    | 1.5 mm dummy plug insertion       |
| N/A         | 2.8 mm female terminal extraction |
| 33513040    | TPA removal                       |
| 33514306    | 1.5 mm terminal crimping          |
| 33514360    | 0.64 mm terminal crimping         |

# CMC 32 WAY SERIES



## 32W HEADER

Pin Size (mm): 0.64 (24) / 1.5 (8)

Number of Indexes: 4

MAX  
TEMPERATURE



SEALING  
PROTECTION



CONNECTOR  
MATING FORCE

< 60N

| Part number | Cavity count | Color (mates same color housing) |
|-------------|--------------|----------------------------------|
| 33503152    | 32           | Blue                             |
| 33503150    | 32           | Brown                            |
| 33503149    | 32           | Grey                             |
| 33503151    | 32           | Black                            |



## 32W DRESS COVER

| Part number | Cavity count | Color | Orientation |
|-------------|--------------|-------|-------------|
| 13851307    | 32           | Black | 90°         |



COMPATIBLE WITH GTS TERMINALS



| Part number | Blade size (mm) | Wire size range (mm <sup>2</sup> ) | Plating | Other available platings |
|-------------|-----------------|------------------------------------|---------|--------------------------|
| 13955989    | 0.64            | 0.35                               | Sn      | Ag, Au                   |
| 13648598    | 0.64            | 0.50                               | Sn      | Ag, Au                   |
| 13712871    | 1.5             | 0.50 - 0.85                        | Sn      | Ag, Au                   |
| 13741954    | 1.5             | 1.0 - 1.3                          | Sn      | Ag, Au                   |
| 13749482    | 1.5             | 1.4 - 2.0                          | Sn      | Ag, Au                   |



# 32W MATING CONNECTORS

|                     |            |
|---------------------|------------|
| Series:             | Mixed      |
| Cavities:           | 32         |
| Terminal Size (mm): | 0.64 & 1.5 |
| Material:           | PBT        |

 MAX  
TEMPERATURE

 SEALING  
PROTECTION

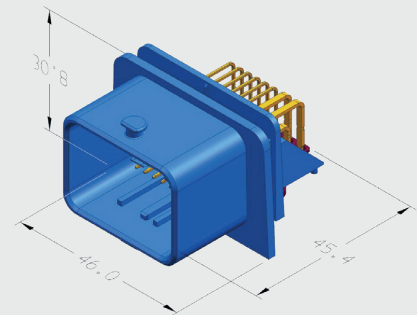
 TERMINAL  
RETENTION FORCE



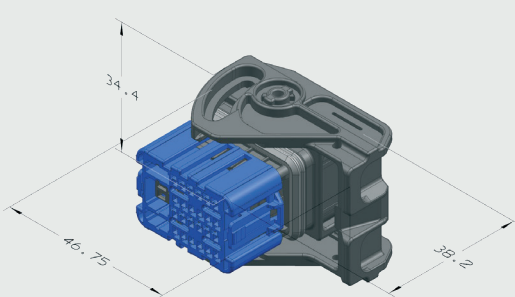
| Part number | Cavity count | Sealing | Gender | Color | Wire direction |
|-------------|--------------|---------|--------|-------|----------------|
| 13851306    | 32           | Sealed  | Female | Black | Right          |
| 13741940    | 32           | Sealed  | Female | Black | Left           |
| 33500498    | 32           | Sealed  | Female | Blue  | Right          |
| 33500497    | 32           | Sealed  | Female | Blue  | Left           |
| 33500496    | 32           | Sealed  | Female | Brown | Right          |
| 33500495    | 32           | Sealed  | Female | Brown | Left           |
| 33500494    | 32           | Sealed  | Female | Grey  | Right          |
| 33500507    | 32           | Sealed  | Female | Grey  | Left           |



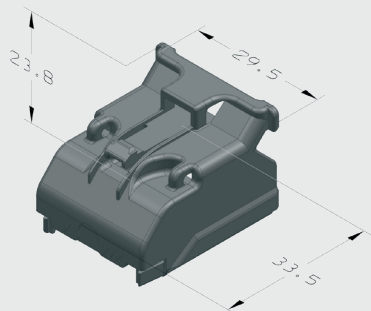
## DIMENSION MEASUREMENT SAMPLE



33503152



33500497



13851307

# CMC 48 WAY SERIES



## 48W HEADER

Pin Size (mm): 0.64 (40) / 1.5 (8)

Number of Indexes: 1

MAX  
TEMPERATURE



SEALING  
PROTECTION



CONNECTOR  
MATING FORCE

< 60N

| Part number | Cavity count | Color (mates same color housing) |
|-------------|--------------|----------------------------------|
| 33503457    | 48           | Black                            |



## 48W DRESS COVER

| Part number | Cavity count | Color | Orientation |
|-------------|--------------|-------|-------------|
| 13956254    | 48           | Black | 90°         |
| 33517228    | 48           | Black | 45°         |



COMPATIBLE WITH GTS TERMINALS



| Part number | Blade size (mm) | Wire size range (mm²) | Plating | Other available platings |
|-------------|-----------------|-----------------------|---------|--------------------------|
| 13955989    | 0.64            | 0.35                  | Sn      | Ag, Au                   |
| 13648598    | 0.64            | 0.50                  | Sn      | Ag, Au                   |
| 13712871    | 1.5             | 0.50 - 0.85           | Sn      | Ag, Au                   |
| 13741954    | 1.5             | 1.0 - 1.3             | Sn      | Ag, Au                   |
| 13749482    | 1.5             | 1.4 - 2.0             | Sn      | Ag, Au                   |





# 48W MATING CONNECTORS

|                     |            |
|---------------------|------------|
| Series:             | Mixed      |
| Cavities:           | 48         |
| Terminal Size (mm): | 0.64 & 1.5 |
| Material:           | PBT        |

 MAX TEMPERATURE       SEALING PROTECTION       TERMINAL RETENTION FORCE



| Part number | Cavity count | Sealing | Gender | Color | Wire direction |
|-------------|--------------|---------|--------|-------|----------------|
| 13956255    | 48           | Sealed  | Female | Black | Right          |
| 13956021    | 48           | Sealed  | Female | Black | Left           |

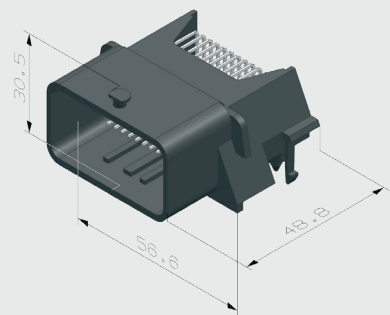
## OTHER 48W MATING CONNECTORS CODINGS\*

|          |    |        |        |       |       |
|----------|----|--------|--------|-------|-------|
| 33500420 | 48 | Sealed | Female | Brown | Right |
| 33500419 | 48 | Sealed | Female | Brown | Left  |
| 33500500 | 48 | Sealed | Female | Grey  | Right |
| 33500499 | 48 | Sealed | Female | Grey  | Left  |

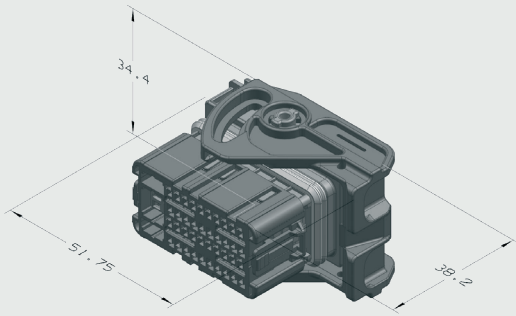
\* Part numbers compatible with Aktiv 112 Way header.



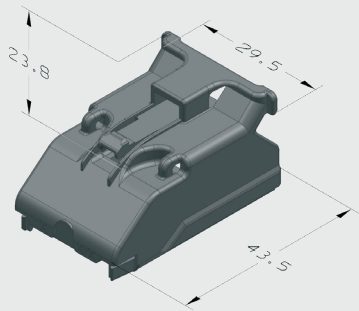
## DIMENSION MEASUREMENT SAMPLE



33503457



13956021



13956254

# CMC 64 WAY SERIES



## 64W HEADER

Pin Size (mm): 0.64 (56) / 1.5 (8)

Number of Indexes: 1

MAX  
TEMPERATURE



SEALING  
PROTECTION



CONNECTOR  
MATING FORCE

< 60N

| Part number | Cavity count | Color (mates same color housing) |
|-------------|--------------|----------------------------------|
| 33504510    | 64           | Black                            |
| 35110623    | 64           | Grey                             |



## 64W DRESS COVER

| Part number | Cavity count | Color | Orientation |
|-------------|--------------|-------|-------------|
| 13648597    | 64           | Black | 90°         |



COMPATIBLE WITH GTS TERMINALS



| Part number | Blade size (mm) | Wire size range (mm <sup>2</sup> ) | Plating | Other available platings |
|-------------|-----------------|------------------------------------|---------|--------------------------|
| 13955989    | 0.64            | 0.35                               | Sn      | Ag, Au                   |
| 13648598    | 0.64            | 0.50                               | Sn      | Ag, Au                   |
| 13712871    | 1.5             | 0.50 - 0.85                        | Sn      | Ag, Au                   |
| 13741954    | 1.5             | 1.0 - 1.3                          | Sn      | Ag, Au                   |
| 13749482    | 1.5             | 1.4 - 2.0                          | Sn      | Ag, Au                   |



# 64W MATING CONNECTORS

|                     |            |
|---------------------|------------|
| Series:             | Mixed      |
| Cavities:           | 64         |
| Terminal Size (mm): | 0.64 & 1.5 |
| Material:           | PBT        |

 MAX  
TEMPERATURE

 SEALING  
PROTECTION

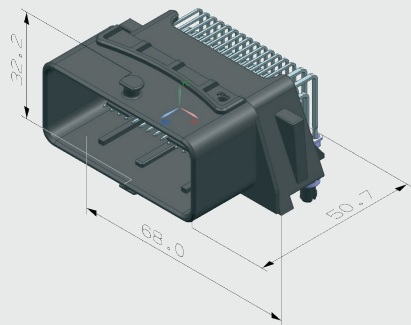
 TERMINAL  
RETENTION FORCE



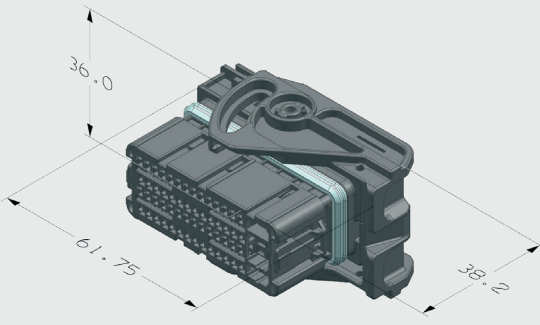
| Part number | Cavity count | Sealing | Gender | Color | Wire direction |
|-------------|--------------|---------|--------|-------|----------------|
| 13648596    | 64           | Sealed  | Female | Black | Right          |
| 13722628    | 64           | Sealed  | Female | Black | Left           |
| 33500504    | 64           | Sealed  | Female | Grey  | Right          |
| 33500503    | 64           | Sealed  | Female | Grey  | Left           |



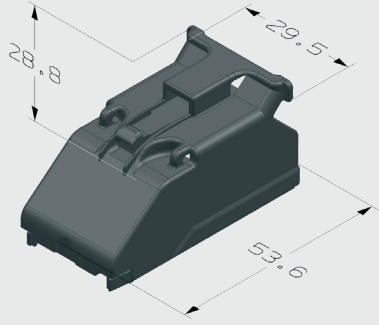
## DIMENSION MEASUREMENT SAMPLE



33504510



13648596



13648597

# CMC 86 WAY SERIES\*



## 86W DRESS COVER

| Part number | Cavity count | Color | Orientation |
|-------------|--------------|-------|-------------|
| 33121915    | 86           | Black | 90°         |
| 33121914    | 86           | Grey  | 90°         |

\* For more information on compatible Headers available on the market, please contact your local sales representative.



## COMPATIBLE WITH GTS & APEX TERMINALS



| Part number | Blade size (mm) | Wire size range (mm <sup>2</sup> ) | Plating | Other available platings |
|-------------|-----------------|------------------------------------|---------|--------------------------|
| 13955989    | 0.64            | 0.35                               | Sn      | Ag, Au                   |
| 13648598    | 0.64            | 0.50                               | Sn      | Ag, Au                   |
| 13737770    | 1.5             | 0.50 - 0.85                        | Sn      | Ag, Au                   |
| 13860784    | 1.5             | 1.0 - 1.3                          | Sn      | Ag, Au                   |
| 13737773    | 1.5             | 1.4 - 2.0                          | Sn      | Ag, Au                   |
| 10810375    | 2.8             | 0.5 - 1.25                         | Sn      | Ag, Au                   |
| 13627267    | 2.8             | 1.5 - 2.5                          | Sn      | Ag, Au                   |





# 86W MATING CONNECTORS

|                     |                 |
|---------------------|-----------------|
| Series:             | Mixed           |
| Cavities:           | 86              |
| Terminal Size (mm): | 0.64, 1.5 & 2.8 |
| Material:           | PBT             |

MAX TEMPERATURE      SEALING PROTECTION      TERMINAL RETENTION FORCE



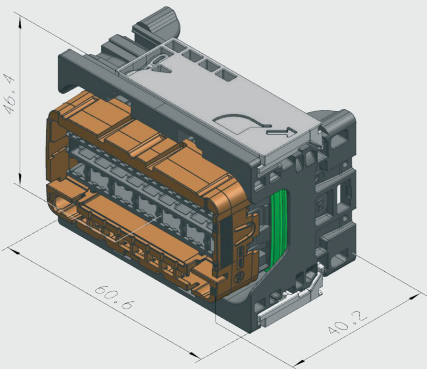
| Part number | Cavity count | Sealing | Gender | Color | Wire direction |
|-------------|--------------|---------|--------|-------|----------------|
| 33156001    | 86           | Sealed  | Female | Brown | Right          |
| 33155995    | 86           | Sealed  | Female | Brown | Left           |
| 33156000    | 86           | Sealed  | Female | Grey  | Right          |
| 33155993    | 86           | Sealed  | Female | Grey  | Left           |

## CORRESPONDING TERMINAL MODULES

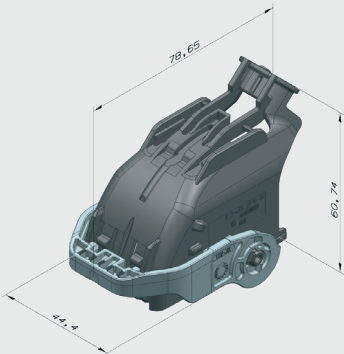
|          |                               |
|----------|-------------------------------|
| 33121921 | 38W Female B Module (for 86W) |
| 33121920 | 38W Female A Module (for 86W) |



## DIMENSION MEASUREMENT SAMPLE



33156001



33121915

# CMC 112 WAY (32+32+48) SERIES



## 112W HEADER

Pin Size (mm): 0.64 (88) / 1.5 (24)

Number of Indexes: 1

MAX  
TEMPERATURE



SEALING  
PROTECTION



CONNECTOR  
MATING FORCE

< 60N

| Part number | Cavity count | Color (mates same color housing) |
|-------------|--------------|----------------------------------|
| 33504045    | 112          | 32W Black / 32W Grey / 48W Brown |



## 112W DRESS COVER

| Part number | Cavity count | Color | Orientation |
|-------------|--------------|-------|-------------|
| 13851307    | 32           | Black | 90°         |
| 13956254    | 48           | Black | 90°         |
| 33517228*   | 48           | Black | 45°         |

\* Alternative dress cover.



COMPATIBLE WITH GTS TERMINALS



| Part number | Blade size (mm) | Wire size range (mm²) | Plating | Other available platings |
|-------------|-----------------|-----------------------|---------|--------------------------|
| 13955989    | 0.64            | 0.35                  | Sn      | Ag, Au                   |
| 13648598    | 0.64            | 0.50                  | Sn      | Ag, Au                   |
| 13712871    | 1.5             | 0.50 - 0.85           | Sn      | Ag, Au                   |
| 13741954    | 1.5             | 1.0 - 1.3             | Sn      | Ag, Au                   |
| 13749482    | 1.5             | 1.4 - 2.0             | Sn      | Ag, Au                   |



## 112W MATING CONNECTORS

|                     |            |
|---------------------|------------|
| Series:             | Mixed      |
| Cavities:           | 112        |
| Terminal Size (mm): | 0.64 & 1.5 |
| Material:           | PBT        |

 MAX  
TEMPERATURE



 SEALING  
PROTECTION



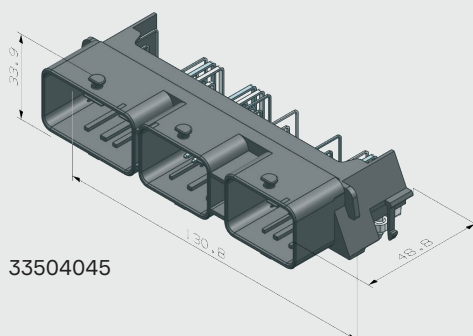
 TERMINAL  
RETENTION FORCE



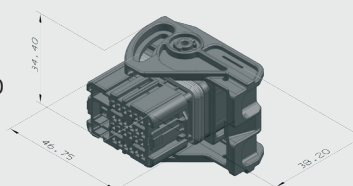
| Part number | Cavity count | Sealing | Gender | Color | Wire direction |
|-------------|--------------|---------|--------|-------|----------------|
| 13741940    | 32           | Sealed  | Female | Black | Left           |
| 33500494    | 32           | Sealed  | Female | Grey  | Right          |
| 33500419    | 48           | Sealed  | Female | Brown | Left           |



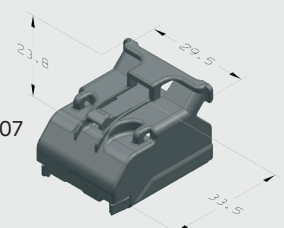
### DIMENSION MEASUREMENT SAMPLE



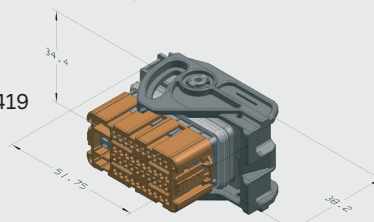
13741940



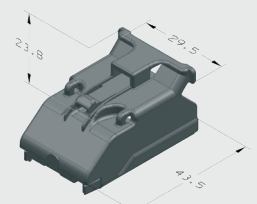
13851307



33500419



13956254



# CMC 154 WAY (48+53+53) SERIES



## 154W HEADER

Pin Size (mm): 0.64 (120) / 1.5 (24) / 2.8 (10)

Number of Indexes: 1

MAX  
TEMPERATURE



SEALING  
PROTECTION



CONNECTOR  
MATING FORCE

< 60N

| Part number | Cavity count | Color (mates same color housing) |
|-------------|--------------|----------------------------------|
| 33513909    | 154          | 48W Grey / 53W Brown / 53W Black |



## 154W DRESS COVER (FOR THE 48 WAY CONNECTOR)

| Part number | Cavity count | Color | Orientation |
|-------------|--------------|-------|-------------|
| 13956254    | 48           | Black | 90°         |
| 33517228    | 48           | Black | 45°         |



COMPATIBLE WITH GTS TERMINALS



| Part number | Blade size (mm) | Wire size range (mm²) | Plating | Other available platings |
|-------------|-----------------|-----------------------|---------|--------------------------|
| 13955989    | 0.64            | 0.35                  | Sn      | Ag, Au                   |
| 13648598    | 0.64            | 0.50                  | Sn      | Ag, Au                   |
| 13712871    | 1.5             | 0.50 - 0.85           | Sn      | Ag, Au                   |
| 13741954    | 1.5             | 1.0 - 1.3             | Sn      | Ag, Au                   |
| 13749482    | 1.5             | 1.4 - 2.0             | Sn      | Ag, Au                   |



# 154W MATING CONNECTORS

|                     |                        |
|---------------------|------------------------|
| Series:             | Mixed                  |
| Cavities:           | 154                    |
| Terminal Size (mm): | 0.64, 1.5 & 2.8 (53 W) |
| Material:           | PBT                    |

 MAX  
TEMPERATURE

 SEALING  
PROTECTION

 TERMINAL  
RETENTION FORCE

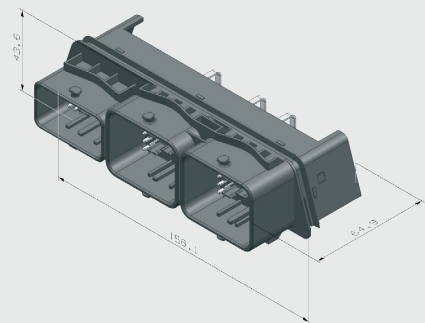


| Part number | Cavity count | Sealing | Gender | Color | Wire direction |
|-------------|--------------|---------|--------|-------|----------------|
| 13956255    | 48           | Sealed  | Female | Grey  | Right          |
| 13956021    | 48           | Sealed  | Female | Grey  | Left           |

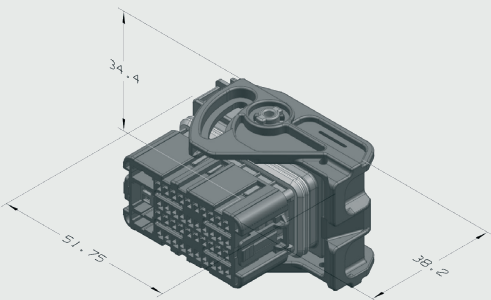
\* 53W pocket compatible with generic connectors on market.



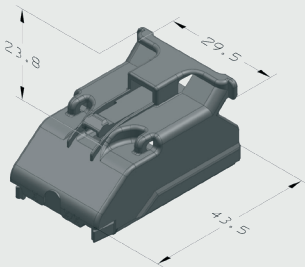
## DIMENSION MEASUREMENT SAMPLE



33513909



13956021



13956254



# Part Numbers

## HEADERS & CONNECTORS

| Part Number | Cavity count | Type        | Sealing | Gender | Color            | Wire Direction | Orientation |
|-------------|--------------|-------------|---------|--------|------------------|----------------|-------------|
| 33503152    | 32           | Header      | -       | -      | Blue             | -              | -           |
| 33503150    | 32           | Header      | -       | -      | Brown            | -              | -           |
| 33503149    | 32           | Header      | -       | -      | Grey             | -              | -           |
| 33503151    | 32           | Header      | -       | -      | Black            | -              | -           |
| 13851306    | 32           | Connector   | Sealed  | Female | Black            | Right          | -           |
| 13741940    | 32           | Connector   | Sealed  | Female | Black            | Left           | -           |
| 33500498    | 32           | Connector   | Sealed  | Female | Blue             | Right          | -           |
| 33500497    | 32           | Connector   | Sealed  | Female | Blue             | Left           | -           |
| 33500496    | 32           | Connector   | Sealed  | Female | Brown            | Right          | -           |
| 33500495    | 32           | Connector   | Sealed  | Female | Brown            | Left           | -           |
| 33500494    | 32           | Connector   | Sealed  | Female | Grey             | Right          | -           |
| 33500507    | 32           | Connector   | Sealed  | Female | Grey             | Left           | -           |
| 13851307    | 32           | Dress cover | -       | -      | Black            | -              | 90°         |
| 33503457    | 48           | Header      | -       | -      | Black            | -              | -           |
| 13956255    | 48           | Connector   | Sealed  | Female | Black            | Right          | -           |
| 13956021    | 48           | Connector   | Sealed  | Female | Black            | Left           | -           |
| 33500420    | 48           | Connector   | Sealed  | Female | Brown            | Right          | -           |
| 33500419    | 48           | Connector   | Sealed  | Female | Brown            | Left           | -           |
| 33500500    | 48           | Connector   | Sealed  | Female | Grey             | Right          | -           |
| 33500499    | 48           | Connector   | Sealed  | Female | Grey             | Left           | -           |
| 13956254    | 48           | Dress cover | -       | -      | Black            | -              | 90°         |
| 33517228    | 48           | Dress cover | -       | -      | Black            | -              | 45°         |
| 33504510    | 64           | Header      | -       | -      | Black            | -              | -           |
| 35110623    | 64           | Header      | -       | -      | Grey             | -              | -           |
| 13648596    | 64           | Connector   | Sealed  | Female | Black            | Right          | -           |
| 13722628    | 64           | Connector   | Sealed  | Female | Black            | Left           | -           |
| 33500504    | 64           | Connector   | Sealed  | Female | Grey             | Right          | -           |
| 33500503    | 64           | Connector   | Sealed  | Female | Grey             | Left           | -           |
| 13648597    | 64           | Dress cover | -       | -      | Black            | -              | -           |
| 33504045    | 112          | Header      | -       | -      | Black/Grey/Brown | -              | -           |
| 33513909    | 154          | Header      | -       | -      | Grey/Brown/Black | -              | -           |
| 33121921    | 38           | B Module    | -       | Female | -                | -              | -           |
| 33121920    | 38           | A Module    | -       | Female | -                | -              | -           |
| 33156001    | 86           | Connector   | Sealed  | Female | Brown            | Right          | -           |
| 33155995    | 86           | Connector   | Sealed  | Female | Brown            | Left           | -           |
| 33156000    | 86           | Connector   | Sealed  | Female | Grey             | Right          | -           |
| 33155993    | 86           | Connector   | Sealed  | Female | Grey             | Left           | -           |
| 33121915    | 86           | Dress cover | -       | -      | Black            | -              | 90°         |
| 33121914    | 86           | Lever       | -       | -      | Grey             | -              | 90°         |

## TERMINALS

| Part number | Blade size (mm) | Terminal type | Wire size range (mm <sup>2</sup> ) | Plating | Other available platings | Compatible with                |
|-------------|-----------------|---------------|------------------------------------|---------|--------------------------|--------------------------------|
| 13955989    | 0.64            | GTS           | 0.35                               | Sn      | Ag, Au                   | 32, 48, 64, 86, 112, & 154 Way |
| 13648598    | 0.64            | GTS           | 0.50                               | Sn      | Ag, Au                   | 32, 48, 64, 86, 112, & 154 Way |
| 13712871    | 1.5             | GTS           | 0.50 - 0.85                        | Sn      | Ag, Au                   | 32, 48, 64, 86, 112, & 154 Way |
| 13741954    | 1.5             | GTS           | 1.0 - 1.30                         | Sn      | Ag, Au                   | 32, 48, 64, 86, 112, & 154 Way |
| 13749482    | 1.5             | GTS           | 1.4 - 2.0                          | Sn      | Ag, Au                   | 32, 48, 64, 86, 112, & 154 Way |
| 13774269    | 1.5             | GTS           | 0.50 - 0.85                        | Sn      | Ag, Au                   | 86 Way                         |
| 13860784    | 1.5             | GTS           | 1.0 - 1.30                         | Sn      | Ag, Au                   | 86 Way                         |
| 13737773    | 1.5             | GTS           | 1.4 - 2.0                          | Sn      | Ag, Au                   | 86 Way                         |
| 10810375    | 2.8             | APEX          | 0.50 - 1.25                        | Sn      | Ag, Au                   | 86 Way                         |
| 13627267    | 2.8             | APEX          | 1.5 - 2.5                          | Sn      | Ag, Au                   | 86 Way                         |

## CAVITY PLUGS

| Part number | Blade size (mm) | Terminal type | Color  | Description      | Compatible with  |
|-------------|-----------------|---------------|--------|------------------|------------------|
| 13768626    | 0.64            | GTS           | White  | Cavity Plug      | 32, 48, & 64 Way |
| 13826722    | 1.5             | GTS           | Blue   | Cavity Plug      | 32, 48, & 64 Way |
| 10736278    | 0.5 - 0.85      | -             | Yellow | Single Wire Seal | 86 Way           |
| 10736279    | 1.0 - 2.0       | -             | Green  | Single Wire Seal | 86 Way           |
| 10779162    | 0.5 - 1.0       | -             | Blue   | Single Wire Seal | 86 Way           |
| 13578695    | 1.25            | -             | Brown  | Single Wire Seal | 86 Way           |
| 10779159    | 1.5 - 2.0       | -             | Red    | Single Wire Seal | 86 Way           |
| 10779161    | 2.5             | -             | Yellow | Single Wire Seal | 86 Way           |
| 10787316    | 1.5             | -             | White  | Single Wire Seal | 86 Way           |
| 10779160    | 2.8             | -             | Green  | Single Wire Seal | 86 Way           |
| 13629105    | 0.64            | -             | White  | Cavity Plug      | 86 Way           |

## TOOLS

| Part number | Application                       | Associated with     |
|-------------|-----------------------------------|---------------------|
| 10915564    | 0.64 mm terminal extraction       | 32, 48, 64 & 86 Way |
| 10915565    | 1.5 mm terminal extraction        | 32, 48, 64 & 86 Way |
| 10915566    | Cover removal                     | 32, 48 & 64 Way     |
| 33105886    | 0.64 mm dummy plug insertion      | 32, 48 & 64 Way     |
| 33105887    | 1.5 mm dummy plug insertion       | 32, 48 & 64 Way     |
| N/A         | 2.8 mm female terminal extraction | 86 Way              |
| 33513040    | TPA removal                       | 32, 48 & 64 Way     |
| 33514306    | 1.5 mm terminal crimping          | 32, 48 & 64 Way     |
| 33514360    | 0.64 mm terminal crimping         | 32, 48 & 64 Way     |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

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