

# Coupling connectors

Sicma

## 24 way sealed coupling housings for 1.5 + 2.8 mm terminals

### Features

- High density connector system using 6 x [2.8 mm] and 18 x [1.5 mm] terminals
- 3 rows 5 x 5 mm pitch
- Circumferential interface seal on female housing
- Rear sealing by a pre-mounted mat-seal
- Pre-assembled front grids support blade terminal guiding and mating
- Terminal position assurance (T.P.A.)
- Easy locking cam
- Mechanical polarization
- Several colour codings available
- 2 locking cam positions possible



### Performance characteristics

- Temperature range: from -40°C to +125°C
- Contact retention force: > 65 N for 1.5 mm terminals > 80 N for 2.8 mm terminals
- Contact insertion force: < 12 N for 1.5 mm terminals < 15 N for 2.8 mm terminals
- Connector mating force: < 70 N
- Sealing protection: IP 68
- Acceptable wire range: from 0.35 mm<sup>2</sup> to 4 mm<sup>2</sup>

### Construction

- Housing material: PBT
- Interfacial seal: Silicone
- Grommet seal: Silicone

### Tooling

- T.P.A. removal tool: 210S040
- Terminal removal tool
  - Female terminal: 210S048
  - Male terminal: 210S049

### Connector compatibility

- Usable terminals:
  - Sicma-2 1.5 mm female terminals
  - Sicma-2 1.5 mm male terminals
  - Sicma-2 2.8 mm female terminals
  - Sicma-2 2.8 mm male terminals
  - Sicma-3 1.5 mm female terminals
  - Sicma-3 1.5 mm male terminals
  - Sicma-3 2.8 mm female terminals
  - Sicma-3 2.8 mm male terminals
- Other applications: see chapter 5 and 7

| Part Numbers   | No. of position | Terminal size                | Type           | Colour |
|----------------|-----------------|------------------------------|----------------|--------|
| 211 PC249S0005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Female housing | Black  |
| 211 PC249S1005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Female housing | Brown  |
| 211 PC249S8005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Female housing | Grey   |
| 211 PC249S6005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Female housing | Blue   |
| 211 PL249S0005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Male housing   | Black  |
| 211 PL249S1005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Male housing   | Brown  |
| 211 PL249S8005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Male housing   | Grey   |
| 211 PL249S6005 | 24              | 18 x [1.5 mm] + 6 x [2.8 mm] | Male housing   | Blue   |
| 211 A 247 001  |                 |                              | Locking cam    | Purple |

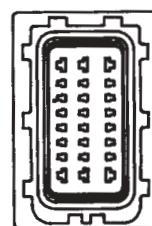
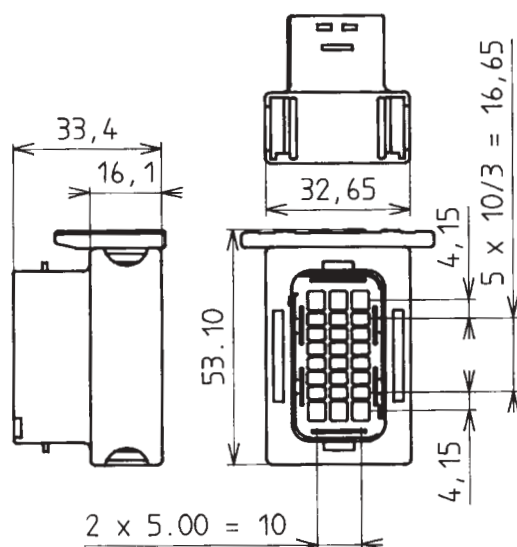
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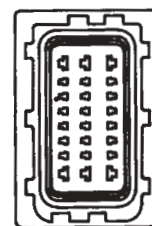
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### Dimensional characteristics

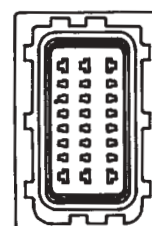
#### Female housing



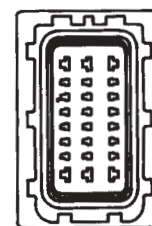
BLACK



BROWN

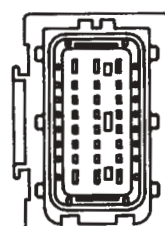
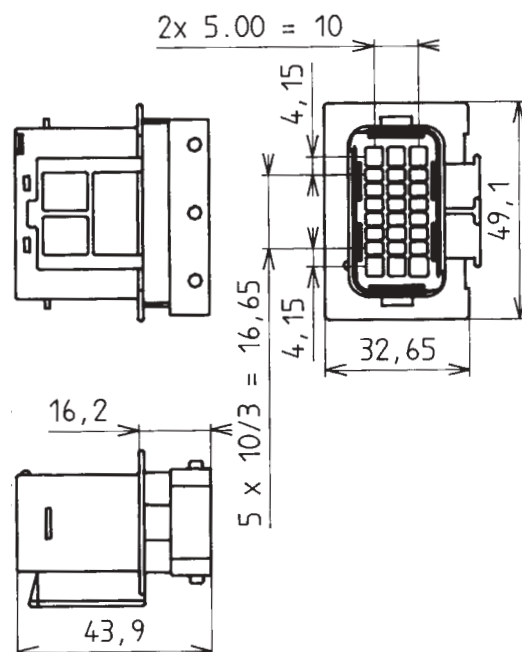


BLUE

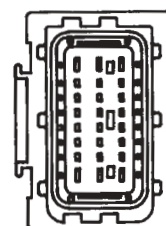


GREY

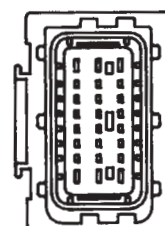
#### Male housing



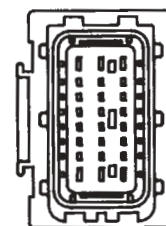
BLACK



BROWN



BLUE



GREY