Panel-through connectors
Sicma

FCi

24 way sealed connector system 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
- Circumferencial interface seal on female housing
- Rear sealing by a pre-mounted grommet
- Pre-assembled front grids support blade terminal guiding and mating
- Terminal position assurance (T.P.A.)
- Female part designed to be mounted on body car
- 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
- Sealing protection: IP 68
- Acceptable wire range:
  from 0.35 mm^2 to 4 mm^2
- Connector mating force: < 70 N

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 6 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
HCCMHPE24BKAF	24	18 x [1.5 mm] + 6 x [2.8 mm]	Male housing	Black
HCCMHPE24BKAF SV*	24	18 x [1.5 mm] + 6 x [2.8 mm]	Male housing	Black
211 A 247 001			Locking cam	Purple

* SV: Sealed version

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Dimensional characteristics

Male housing

37.9
24.1
43.9
18.2
21.9
4.15
5x3.33=16.65
59.400
4.15

BLACK

Female housing

33,4
16,1
32,65
10/3 = 16,65
4,15
5 x
4,15
53.10
2 x 5.00 = 10

BLACK   BROWN

BLUE   GREY
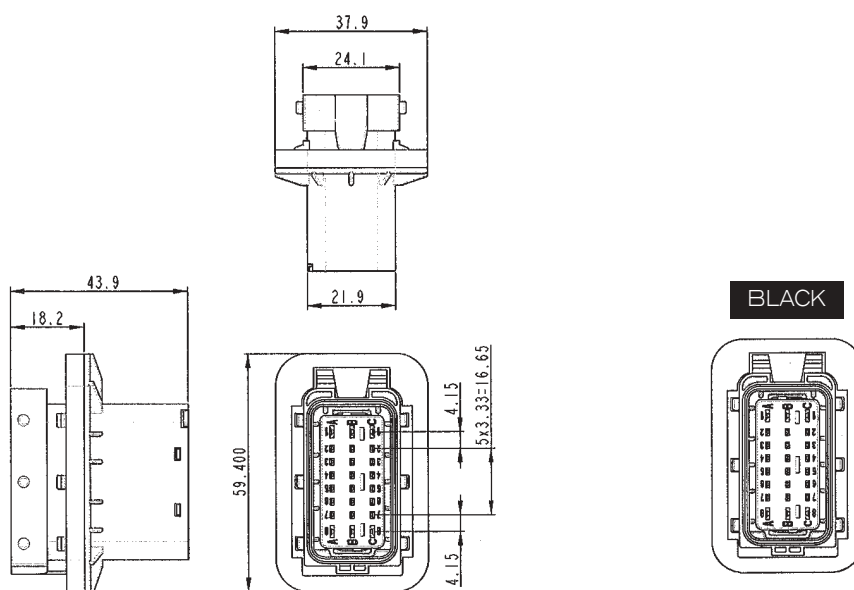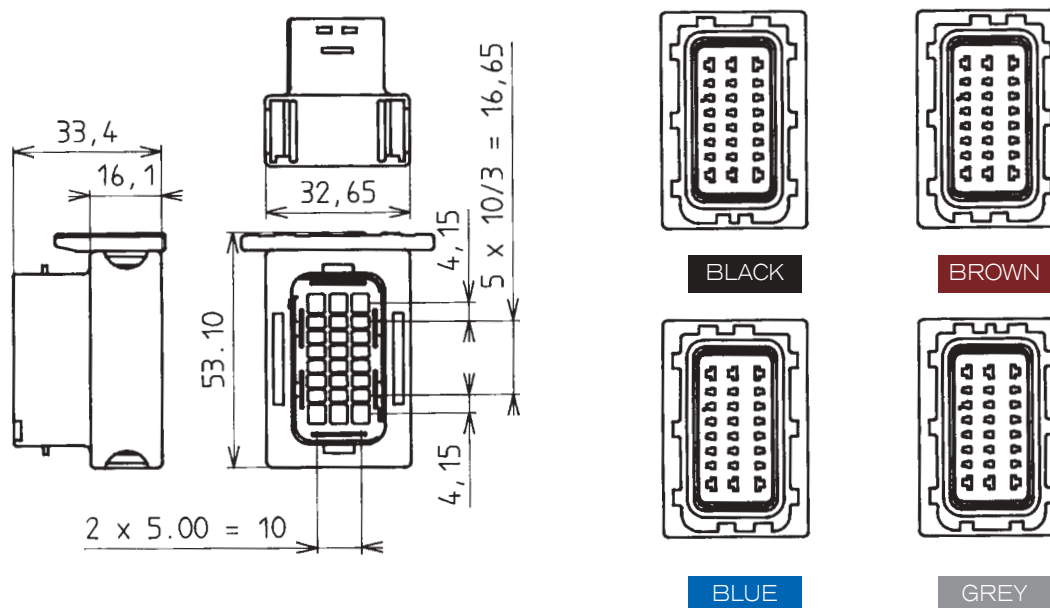
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