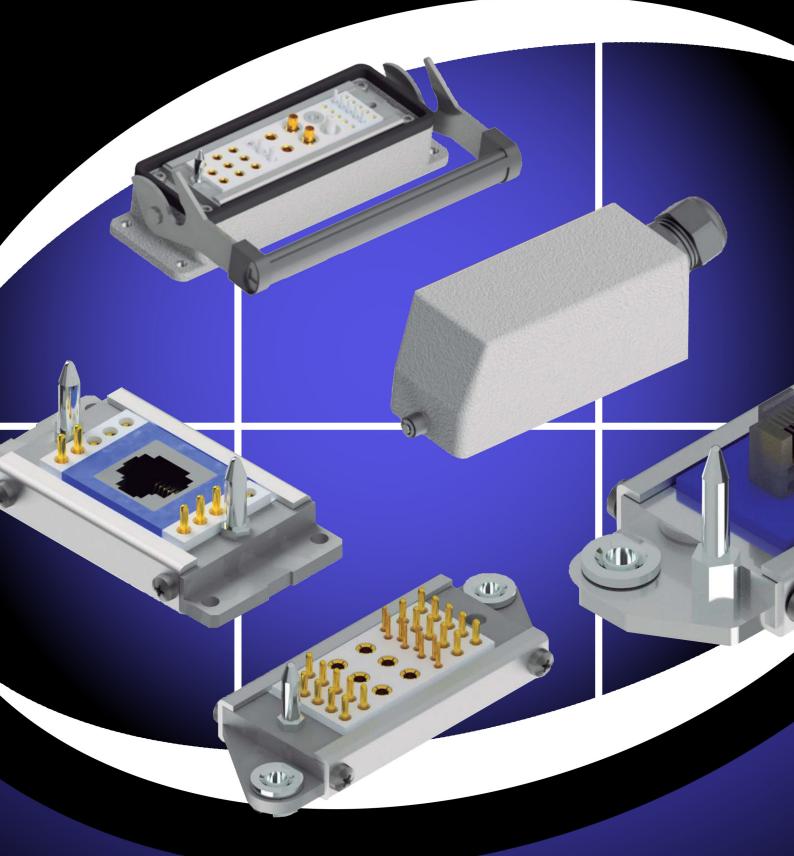
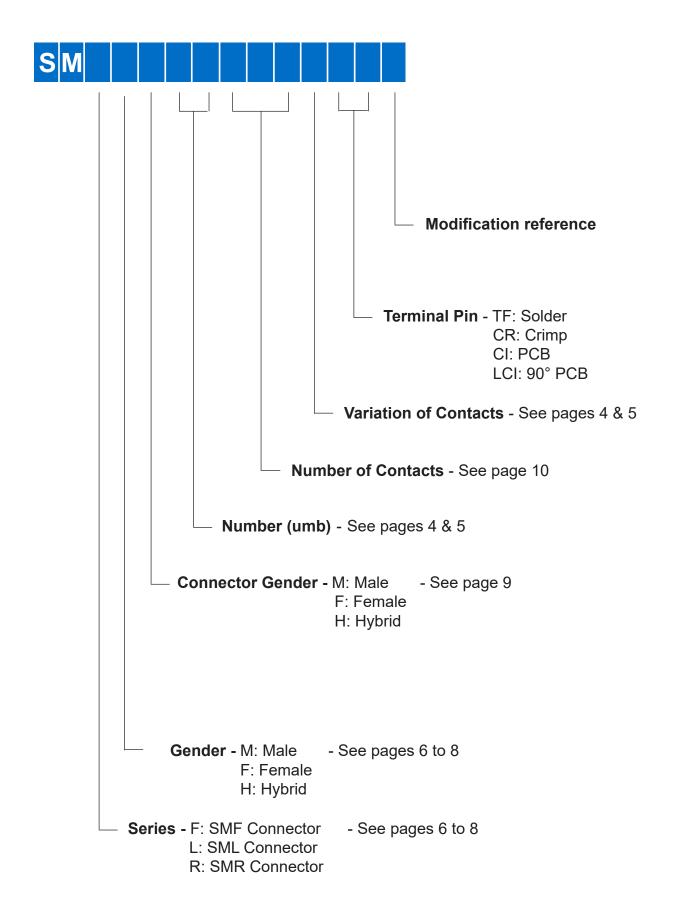
GEEPR **ALFA^R CONNECTORS**

Rectangular and Rack



SM Part Number Reference:



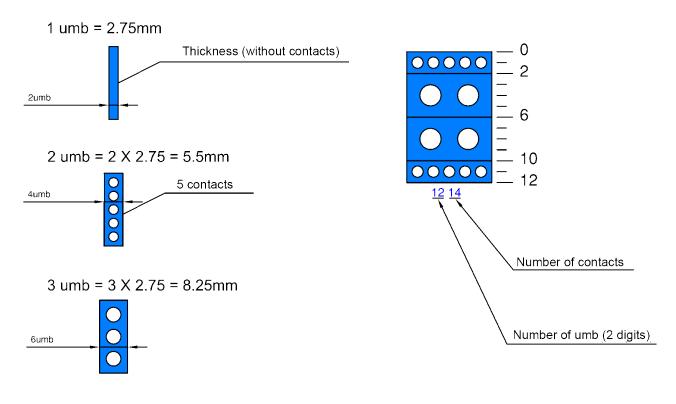
Product Description:

These connectors are made up of male, female or hybrid monoblock elements (SMP) mounted on a rigid and robust aluminium frame.

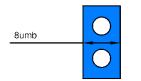
They are manufactured in 13 sizes and in three different clamping brackets (see pages 6-8, series: SMF / SML / SMR).

The connector guides allow for perfect alignment and coupling. These guides, regardless of their arrangement, prevent accidental connection with reversed polarity. A unit of measure (umb) MonoBlock Unit has been established to allow for a composition of different elements (SM). See example configurations below.

Monoblock Unit (umb)



4 umb = 4 X 2.75 = 11mm



Contact Distribution:

| 1umb | 2umb | 4umb | 6umb | 8umb | 10 | umb | 12u | ımb | 13u Compata | |
|------|----------------------|--|--|---|----|---|---|---|---|---|
| 0100 | 0205 0205 0208 | 0402 0402 0410 0410 0413 0413 0416 | 0608 0607 0607 0607 0608 0608 0608 0608 | O O | | Colored C | Colored C | Colored C | O O | O O |

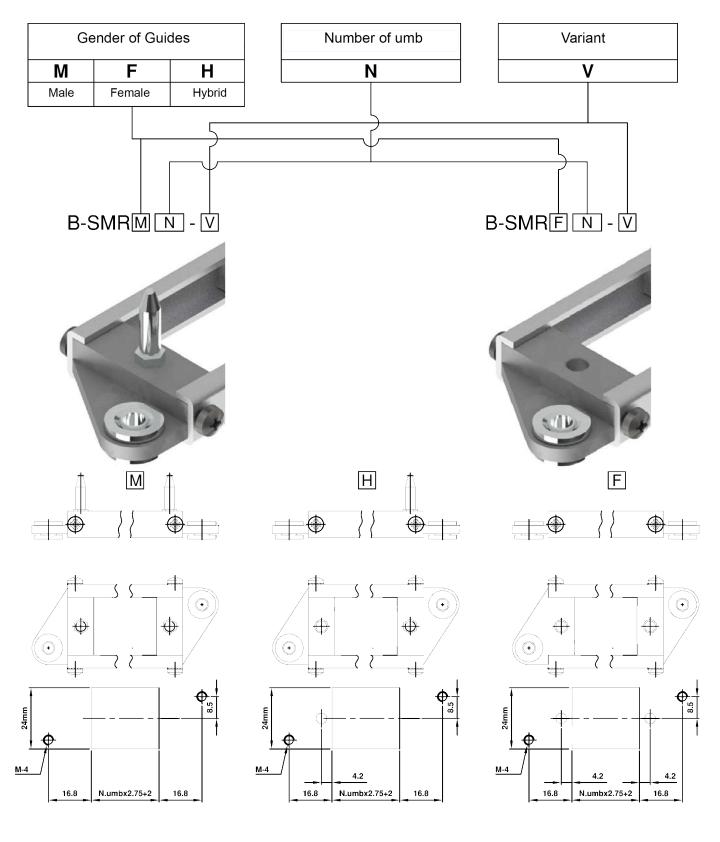
Contact Distribution:

| 15umb | 16umb | 18umb | 20umb | 25umb | 3013umb Compatable SME | |
|---|---|---|---|---|---|--|
| • • • • • • | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | |

Series SMF Rack:

Characterized by their small size and robustness. Fixed at four points. The guides of the two supports can be male (M), female (F) or one male and the other female, hybrid configuration (H).

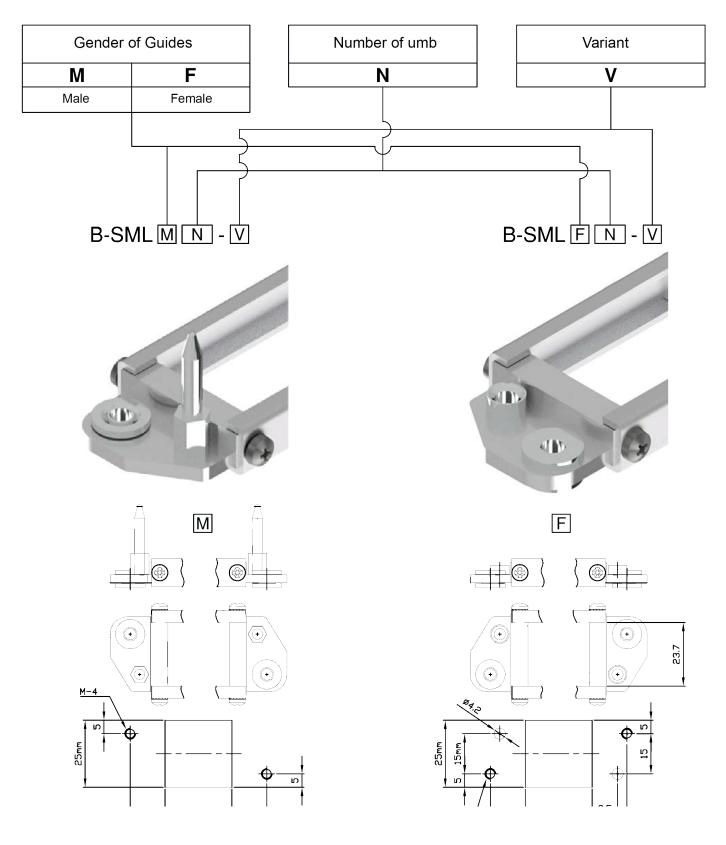
They are compatible with aluminium housings (SME series) in two sizes, 13 umb and 30 umb. The codes shown below are for empty frames (without contact blocks).



Series SML Rack:

These connectors have longer male guides than the other series. The guide of the two supports are always of the same gender, male (M) or female (F). The hybrid configuration is not possible.

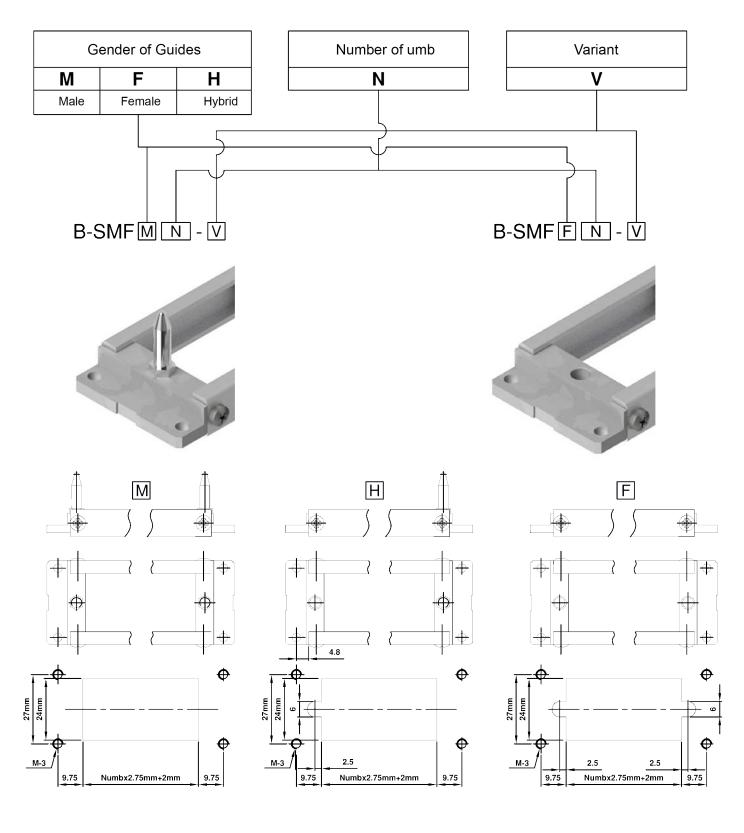
The connectors are provided with a floating clamping system. The codes shown below are for empty frames (without contact blocks).



Series SMR Rack:

In this series, the guides of the two supports can be male (M), female (F), or one male and one female, hybrid configuration (H).

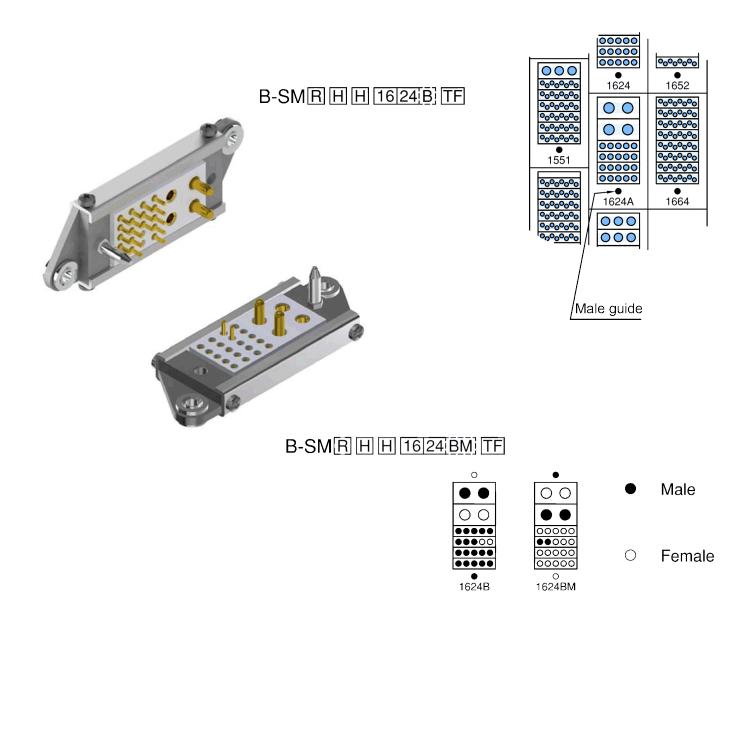
The connectors are provided with a floating fixing system. The codes shown below are for empty frames (without contact blocks).



SMF/L/R

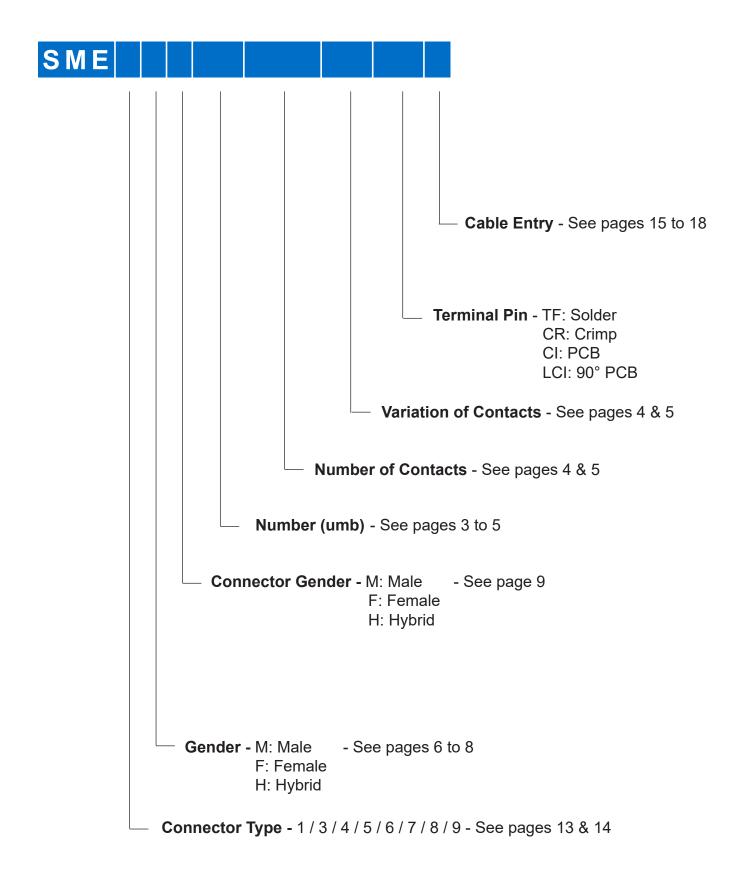
Hybrid connectors come with a male and female guide and an asymmetric arrangement of contacts. The male guide is identified as per the diagram below (for more information please refer to pages 4 & 5).

For connectors containing hybrid contacts (mix of male and female), when the two connectors are mated, they present a totally inverted configuration scheme. This is differentiated by adding the letter M within the part number (see example below).



Contacts:

| 2 | 3 | 5 | 8 | 10 | 16 |
|----------------|-----------------------------|--|-------------------------------------|---|---|
| 5.3 | 2.1 | 0.9 | 0.6 | 0.9 | 0.9 |
| <6N | <4N | <2N | | | |
| > 10³ MΩ | | | | | |
| < 5 MΩ | | | | | |
| 2500V | 2000V | 1500V | | | |
| | _ | 1500V - | | | _ |
| 750V | 500V | 250V | | | |
| - 250V - | | | | _ | |
| -40°C + 120 °C | | | | | |
| -55°C + 90 °C | | | | | |
| 25A | 15A | 10A | 7.5A | 10A | |
| | 5.3 <6N 2500V 750V | 5.3 2.1 <6N <4N 2500V 2000V - 750V 500V - | 5.3 2.1 0.9 <6N | 5.3 2.1 0.9 0.6 <6N | 1 + 1 + 1 + 2 + 3 $1 + 1 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 +$ |



SME Product Description:

These connectors are made up of elements of the SMF series, mounted in aluminium housings. They are manufactured in two sizes: 13umb (from 6 to 48 contacts) 30umb (from 14 to 120) (See diagrams on pages 4 and 5)

The housings are provided with gaskets resistant to industrial agents, mineral oils and hydrocarbons, which, together with the appropriate cable outlet accessories, guarantee an IP65 degree of protection. For the cable outlet there is a wide range of accessories consisting of: integrated cable glands, external plastic, external metal and spiral glands of various diameters (see pages 15-18)



Series SME Type:







Extended vertical entry, with pivots **SME 3**

Vertical entry, with pivots

SME 1



Side entry 15°, with pivots **SME 4**



Extended side entry 15°, with pivots **SME 5**

Series SME Type:



Vertical outlet, with lever **SME 6**



Vertical outlet, with lever **SME 7**

Recessed base, with pivots **SME 8**



Recessed base, with lever **SME 9**

Taking into account the size of the connector and the cable, we can complete the code according to the table below. Available with: EMI Shield, flexible spiral, rigid cable, or multiple cable outlet (see figure below). Please contact us for more information.

| | Cable Gland | | | | | | | | | |
|---------------|-------------|------|-----------|-------|----------------|--------|--|--|--|--|
| Ø Cable Entry | | Sino | Reference | | | | | | | |
| Min | Мах | Size | Plastic | Metal | Ground Contact | Spiral | | | | |
| 5 | 10 | | А | E | - | SA | | | | |
| 6 | 13 | | - | - | I | - | | | | |
| 7 | 13 | M20 | В | F | J | SB | | | | |
| 7.5 | 14 | | - | - | L | - | | | | |
| 10 | 14 | | D | н | - | SD | | | | |
| 7 | 15 | | В | F | - | SB | | | | |
| 11 | 21 | | С | G | К | SC | | | | |
| 16 | 24.5 | M32 | - | - | L | - | | | | |
| 20 | 25 | | D | Н | - | SD | | | | |
| 11* | 23 | | А | E | - | SA | | | | |
| 19 | 28 | M40 | В | F | J | SB | | | | |
| 22 | 32 | | - | н | L | - | | | | |
| 27 | 32 | | D | - | - | SD | | | | |

*With silicone reducer. Ref:N050S100TA0 (8-12)

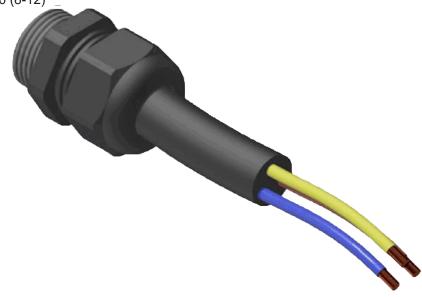
Plastic Cable Gland

Available Colours: RAL 7001 Silver/Grey RAL 7035 Light grey RAL 9005 Black/ UV resistant

Material: Body: Polyamide Seal: EPDM Sealed to connector: Silicone

Protection: IP68 - 5 Bar

Working temperature: Static: from -40°C to 100°C Dynamic: from -40°C to 100°C



RAI

MAT

IP

TEMP

Cable Glands



Metal Cable Gland

 Material: Body: Nickel plated brass Seal: EPDM Sealed to connector: Silicone

Protection: IP68 - 10 Bar

Working temperature: Range from -30°C to 100°C They are also supplied on demand with a temperature range up to 200°C

Metal Cable Gland with mesh



TEMP

Material: Body: Nickel plated brass Seal: EPDM Sealed to connector: Silicone

Protection: IP68 - 10 Bar

Working temperature: Range from -30°C to 100°C They are also supplied on demand with a temperature range up to 200°C

Plastic Spiral Cable Gland

Available Colours: RAL 7001 Silver/Grey RAL 7035 Light grey RAL 9005 Black/ UV resistant

Material: Body: Polyamide Seal: EPDM Sealed to connector: Silicone

Protection: IP68 - 5 Bar

Working temperature: Static: from -20°C to 100°C Dynamic: from -40°C to 100°C

www.ceep.co.uk

RAL

MAT

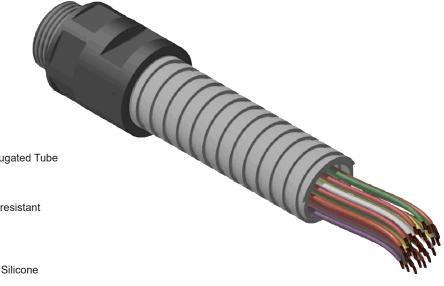
IP

TEMP

sales@ceep.co.uk

Cable Glands:

| Cable Gland for Corrugated Tube | | | | | | | | |
|---------------------------------|--------|------|-----------|----------|--|--|--|--|
| | Ø Tube | Size | Reference | | | | | |
| Nom | Ext | Int | Size | Referice | | | | |
| 10 | 13 | 10 | M16 | FB | | | | |
| 12 | 15.8 | 12 | M16 | FC | | | | |
| 12 | 15.8 | 12 | MOO | FD | | | | |
| 16 | 21.2 | 16.5 | M20 | FE | | | | |
| 27.5 | 34.9 | 29 | M32 | FF | | | | |
| 35 | 42.5 | 36 | M40 | FG | | | | |
| 48 | 54.5 | 48 | M63 | FH | | | | |



Cable Gland for Corrugated Tube

RAL MAT IP

RAL

MAT)

IP

TEMP)

Available Colours: RAL 7035 Light grey RAL 9005 Black/ UV resistant

Material: Body: Polyamide Seal: EPDM Sealed to connector: Silicone

Protection: IP68 - 5 Bar IP69K according to DIN 40050 T.9

Working temperature: Range from -30°C to 100°C

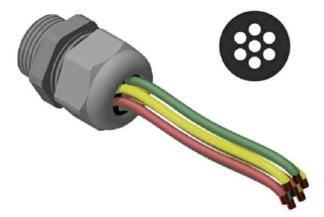
Multi-Cable Plastic Gland

Available Colours: RAL 7001 Silver/Grey RAL 7035 Light grey RAL 9005 Black/ UV resistant

Material: Body: Polyamide Seal: NBR / VITON Sealed to connector: Silicone

Protection: IP54

Working temperature: Static: from -40°C to 100°C



| Cable Gland for Corrugated Tube | | | | | | | |
|---------------------------------|---------|------|-----------|----------|--|--|--|
| No of Cables | Ø Cable | Size | Reference | Material | | | |
| 2 | 2 | | J1 | | | | |
| 2 | 3 | M16 | J2 | | | | |
| 2 | 4 | | J3 | | | | |
| 2 | 5 | | J4 | | | | |
| 2 | 6 | | J5 | | | | |
| 3 | 4 | | J6 | | | | |
| 3 | 5.3 | | J7 | NBR | | | |
| 3 | 5.8 | | J8 | | | | |
| 4 | 4 | M20 | J9 | | | | |
| 4 | 5 | | J10 | | | | |
| 9 | 2 | | J11 | | | | |
| 4 | 3 | | J12 | | | | |
| 2 | 5 | | JV1* | VITON | | | |
| 2 | 6 | | JV2* | VITON | | | |
| 2 | 7 | - | J13 | | | | |
| 2 | 8 | | J14 | | | | |
| 2 | 9 | | J15 | | | | |
| 3 | 7 | | J16 | | | | |
| 3 | 8 | | J17 | | | | |
| 4 | 6 | | J18 | | | | |
| 4 | 7 | M32 | J19 | | | | |
| 5 | 6 | | J20 | | | | |
| 6 | 5 | | J21 | | | | |
| 8 | 4 | | J22 | | | | |
| 8 | 5 | | J23 | NBR | | | |
| 9 | 4 | 1 | J24 | | | | |
| 2 | 9 | | J25 | | | | |
| 3 | 10 | | J26 | | | | |
| 4 | 8 | | J27 | | | | |
| 4 | 9 | | J28 | | | | |
| 5 | 8 | M40 | J29 | | | | |
| 5 | 9 | | J30 | | | | |
| 6 | 7 | | J31 | | | | |
| 8 | 6 | | J32 | | | | |
| 9 | 6.9 | | J33 | | | | |
| 9 | 6.9 | | JV3* | VITON | | | |



CEEP Connectors Limited

Unit 4 Rake Heath House, London Road, Hill Brow, Liss, Hampshire, GU33 7NT, United Kingdom

Tel: +44 (0) 1730 895785

www.ceep.co.uk

sales@ceep.co.uk



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