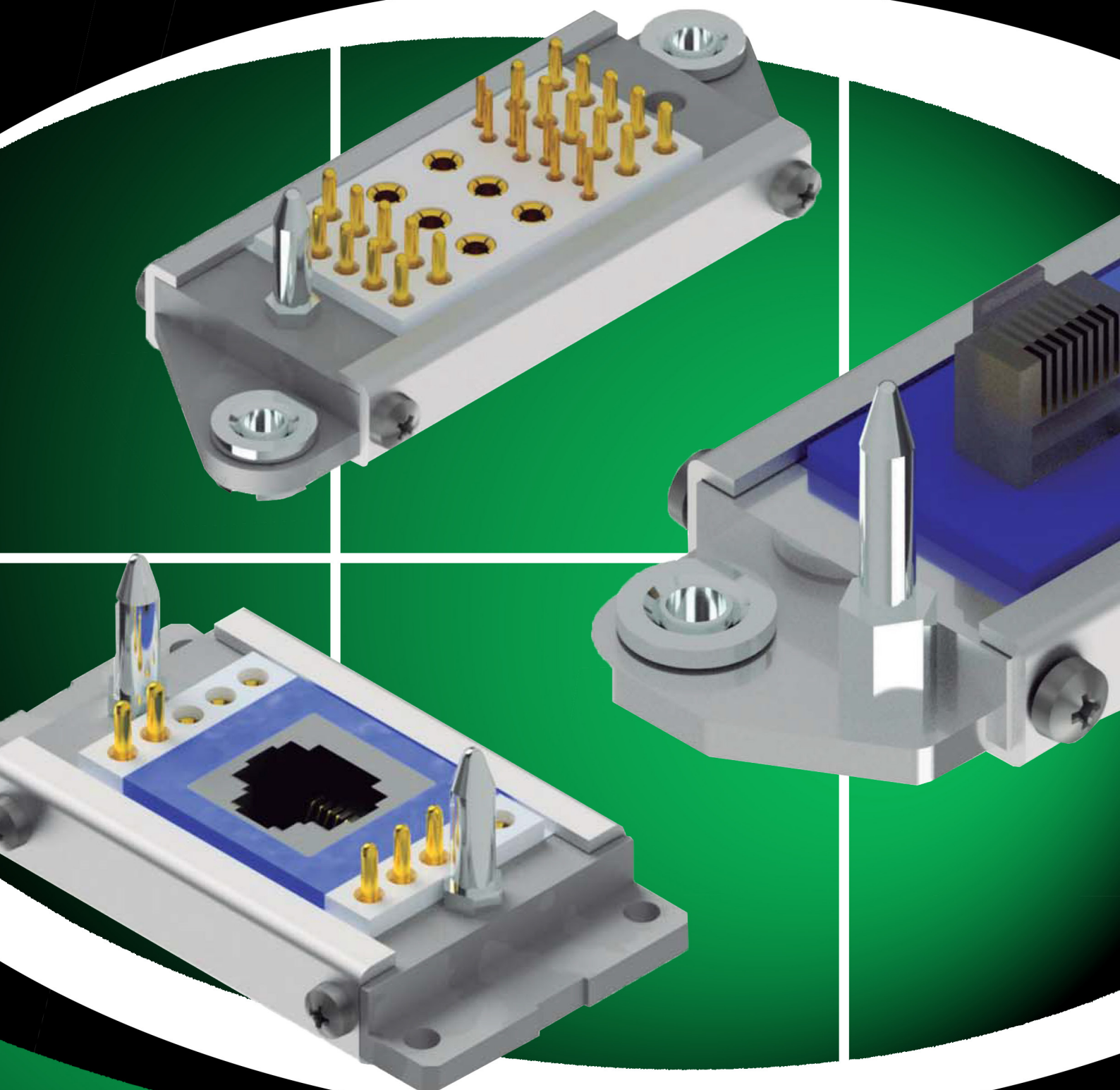


CEEP

ALFA¹R CONNECTORS

Rectangular
Rack



Part Number Reference:



Modification reference

Terminal Pin - TF: Solder
CR: Crimp
CI: PCB
LCI: 90° PCB

Variation of Contacts - See pages 4 & 5

Number of Contacts - See page 10

Number (umb) - See pages 4 & 5

Connector Gender - M: Male - See page 9
F: Female
H: Hybrid

Gender - M: Male - See pages 6 to 8
F: Female
H: Hybrid

Series - F: SMF Connector - See pages 6 to 8
L: SML Connector
R: SMR Connector

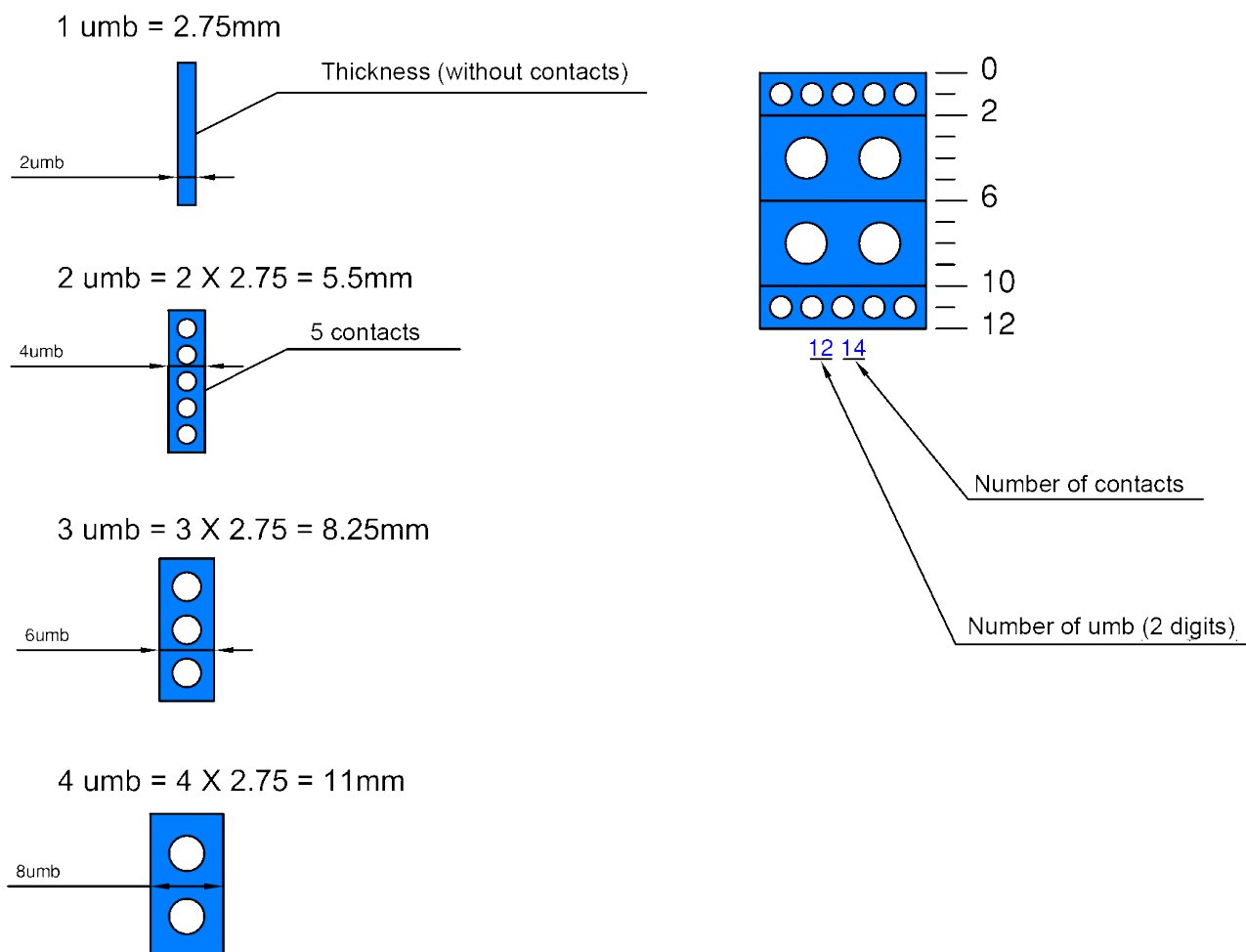
Product Description:

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.

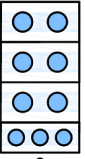
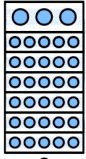
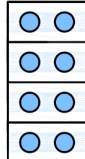


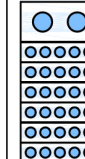
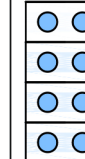
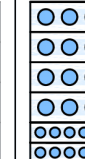
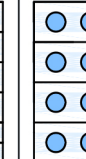
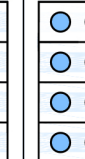
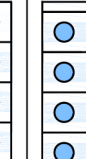

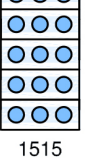
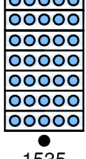
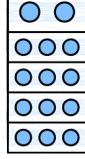
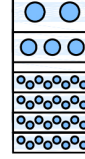

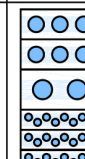


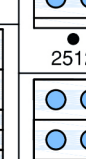
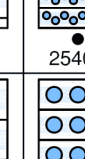
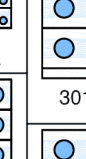
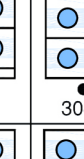
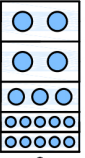
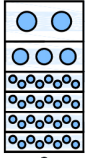


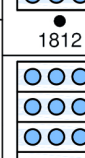
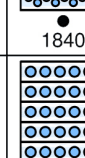
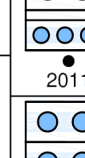
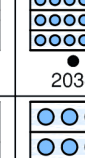


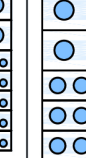
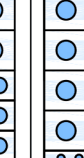
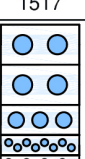
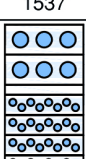
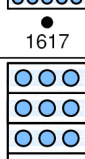
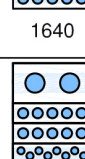
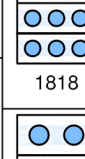
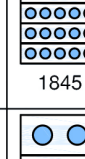
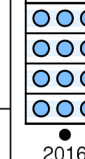



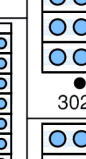

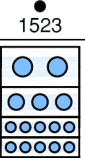
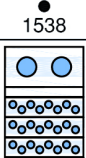
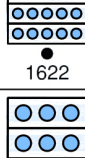
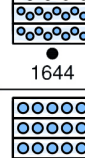
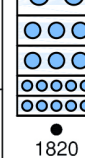
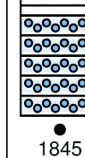
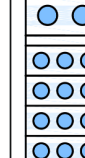
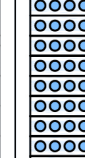

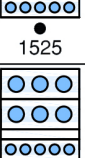
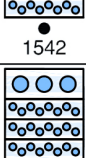
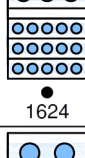
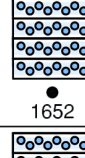
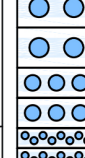

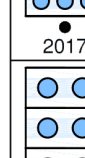
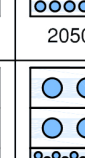
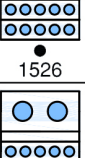
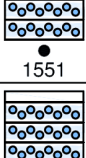
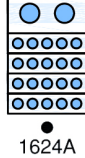
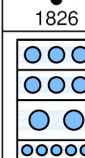
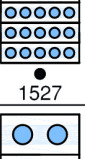
Monoblock Unit (umb)



Contact Distribution:

1umb	2umb	4umb	6umb	8umb	10umb		12umb		13umb Compatible SME	
0100	0205 0208	0402 0410 0413 0416	0606 0607 0608 0615 0624	0804 0805 0811 0812 0812A 0820 0826 0832	1004 1008 1009 1009A 1009B 1012 1016 1016A	1017 1018 1022 1025 1026 1026A 1031 1040	1206 1212 1214 1214A 1220 1221 1223	1222 1230 1230A 1234 1235 1236 1239 1248	1306 1311 1312 1312A 1314 1319 1320	1322 1325 1328 1330 1325 1325 1343 1348

Contact Distribution:

15umb		16umb		18umb		20umb		25umb		3013umb Compatible SME	
											
1509	1533	1608	1632	1808	1837	2010	2032	2512	2540A	3014	3040
											
1515	1535	1614	1637	1812	1840	2011	2034	2517	2555	3024	3050
											
1517	1537	1617	1640	1818	1845	2016	2044	2524	2560	3030	3075
											
1523	1538	1622	1644	1820	1845	2017	2050	2528	2596	3035	30120
											
1525	1542	1624	1652	1826	1858	2018	2056	2540			
											
1526	1551	1624A	1664	1828	1872	2024	2080				
											
1527	1556	1631		1830							
											
1527A											

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).

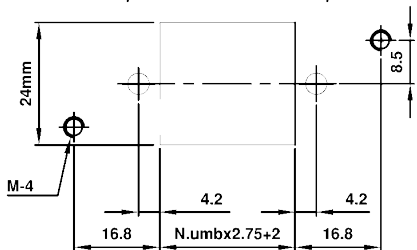
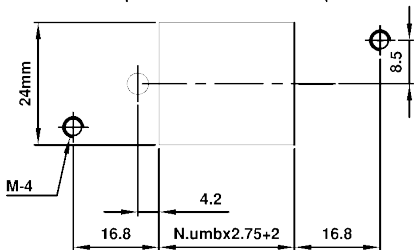
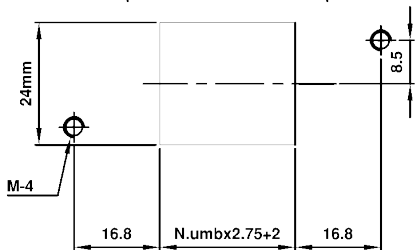
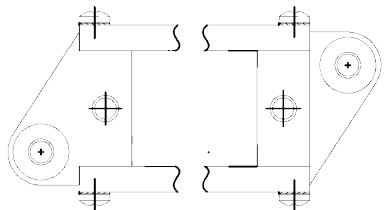
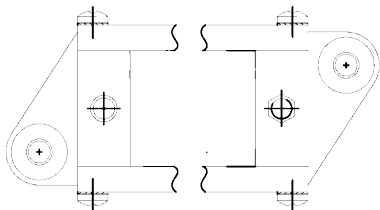
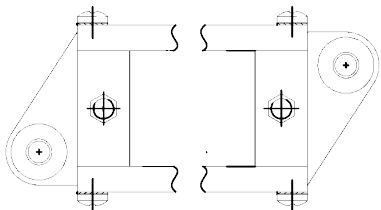
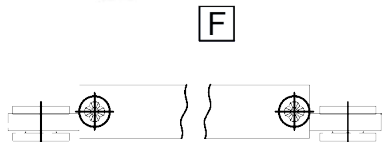
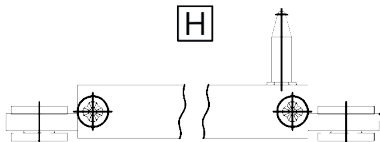
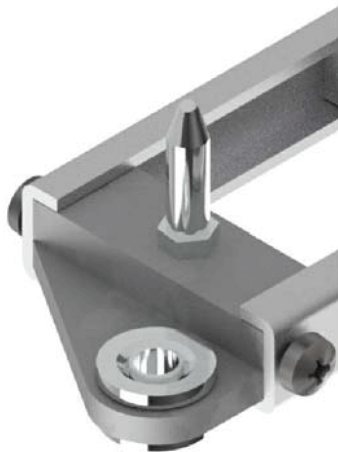
Gender of Guides		
M	F	H
Male	Female	Hybrid

Number of umb
N

Variant
V

B-SMR[M][N] - [V]

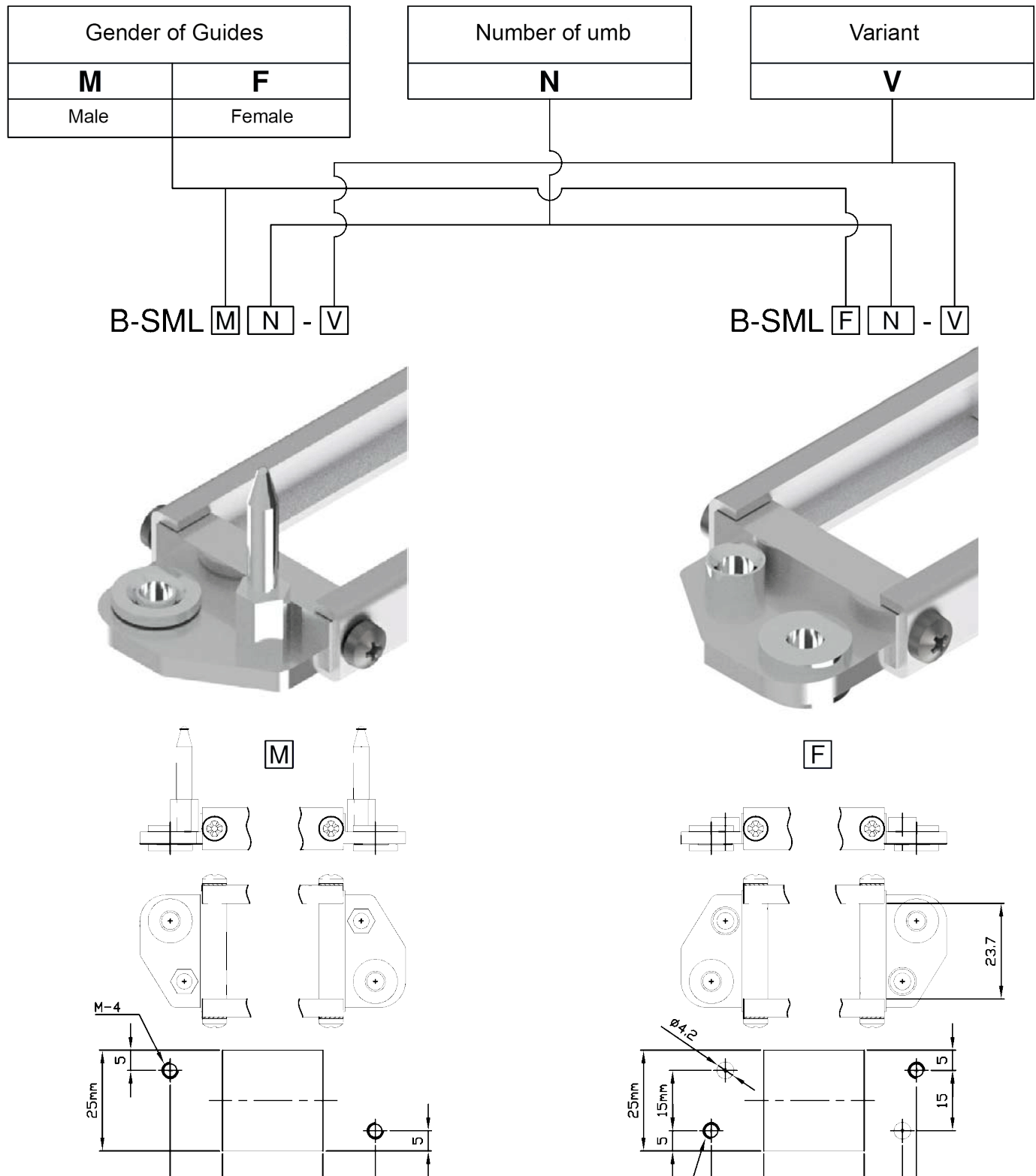
B-SMR[F][N] - [V]



Series SML Rack:

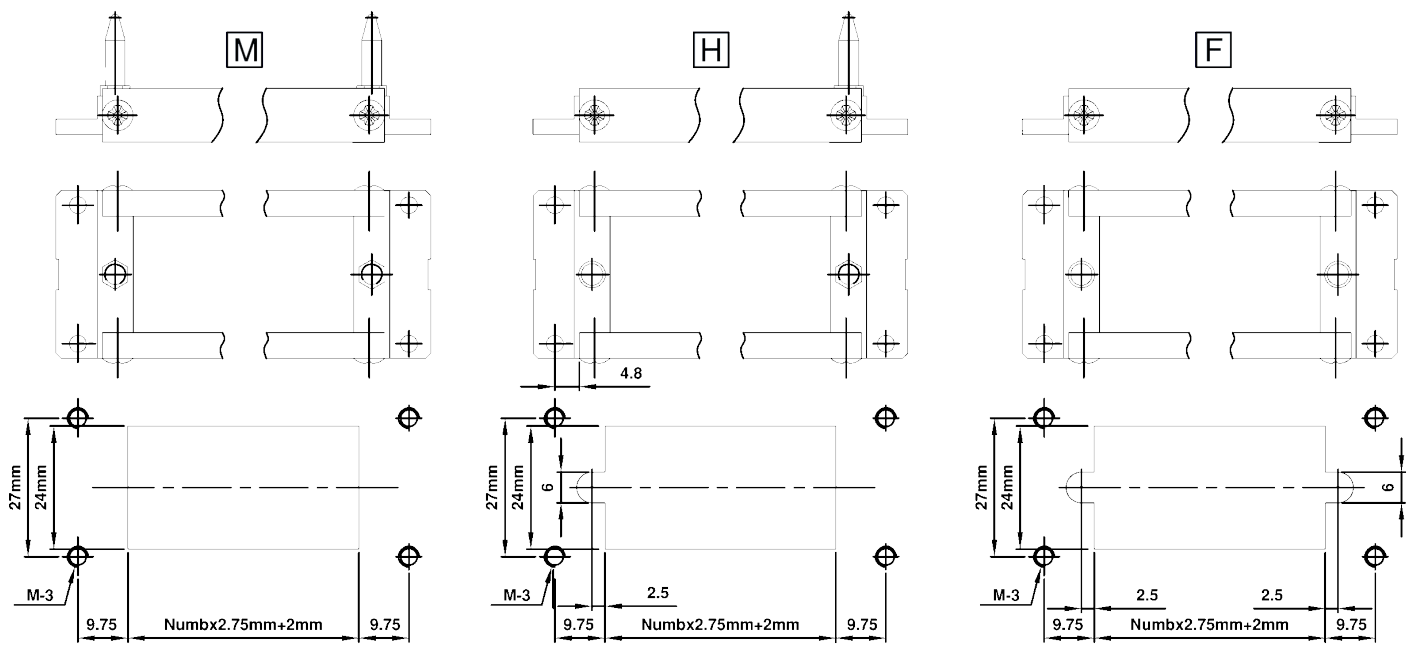
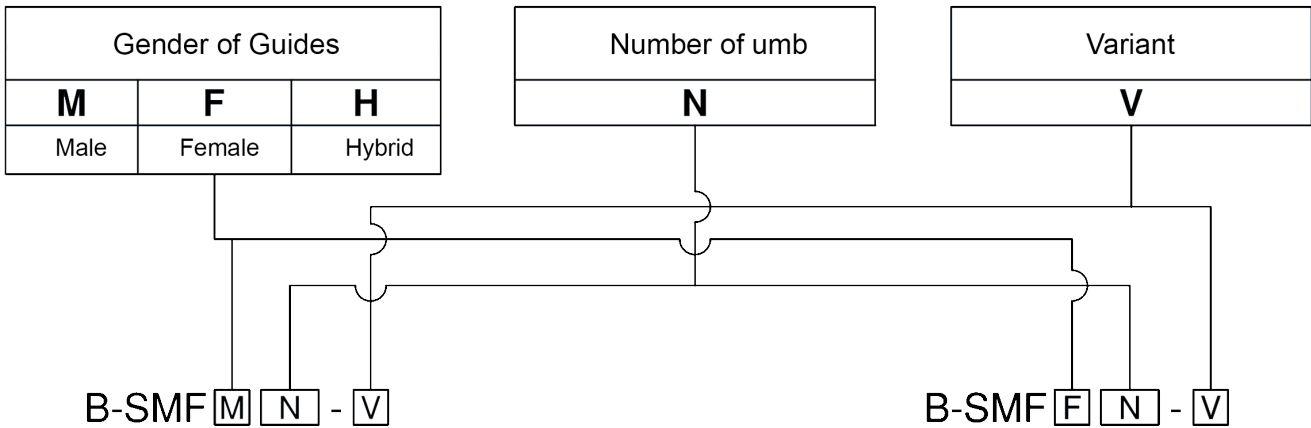
These connectors have longer male guides than the other series. The guide of the two supports are always of the same gender, male (M) or female (F). The hybrid configuration is not possible.

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



Series SMR Rack:

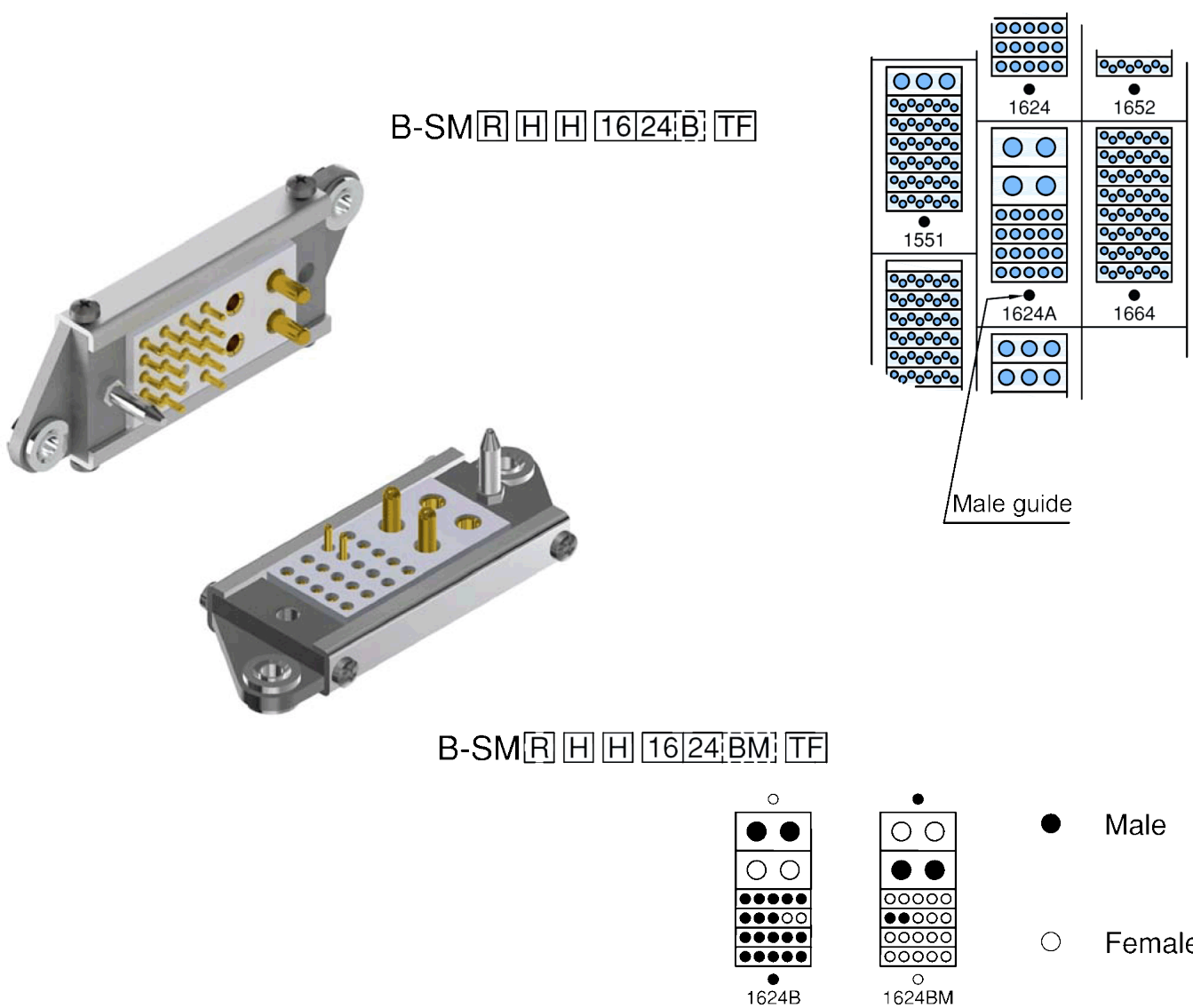
In this series, the guides of the two supports can be male (M), female (F), or one male and one female, hybrid configuration (H).
The connectors are provided with a floating fixing system. The codes shown below are for empty frames (without contact blocks).



SM F / 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:

Number of Contacts	2	3	5	8	10	16
Wire section (mm²)	5.3	2.1	0.9	0.6	0.9	0.9
Average extraction force per contact	<6N	<4N	<2N			
Insulator resistance at 20 °C and 80% realitive humidity	> 10³ MΩ					
Contact resistance (male and female mated)	< 5 MΩ					
Test voltage at sea level for melamine (thermostable) (V.eff.)	2500V	2000V	1500V			
Test voltage at sea level for thermostable (V.eff.)	-		1500V		-	
Working voltage at sea level for melamine (thermostable) (V.eff.)	750V	500V	250V			
Working voltage at sea level for thermostable (V.eff.)	-		250V		-	
Working temperature for melamine (thermostable)	-40°C + 120 °C					
Working temperature for thermoplastic (UL 04:CO)	-55°C + 90 °C					
Nominal current per contact (A)	25A	15A	10A	7.5A	10A	



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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