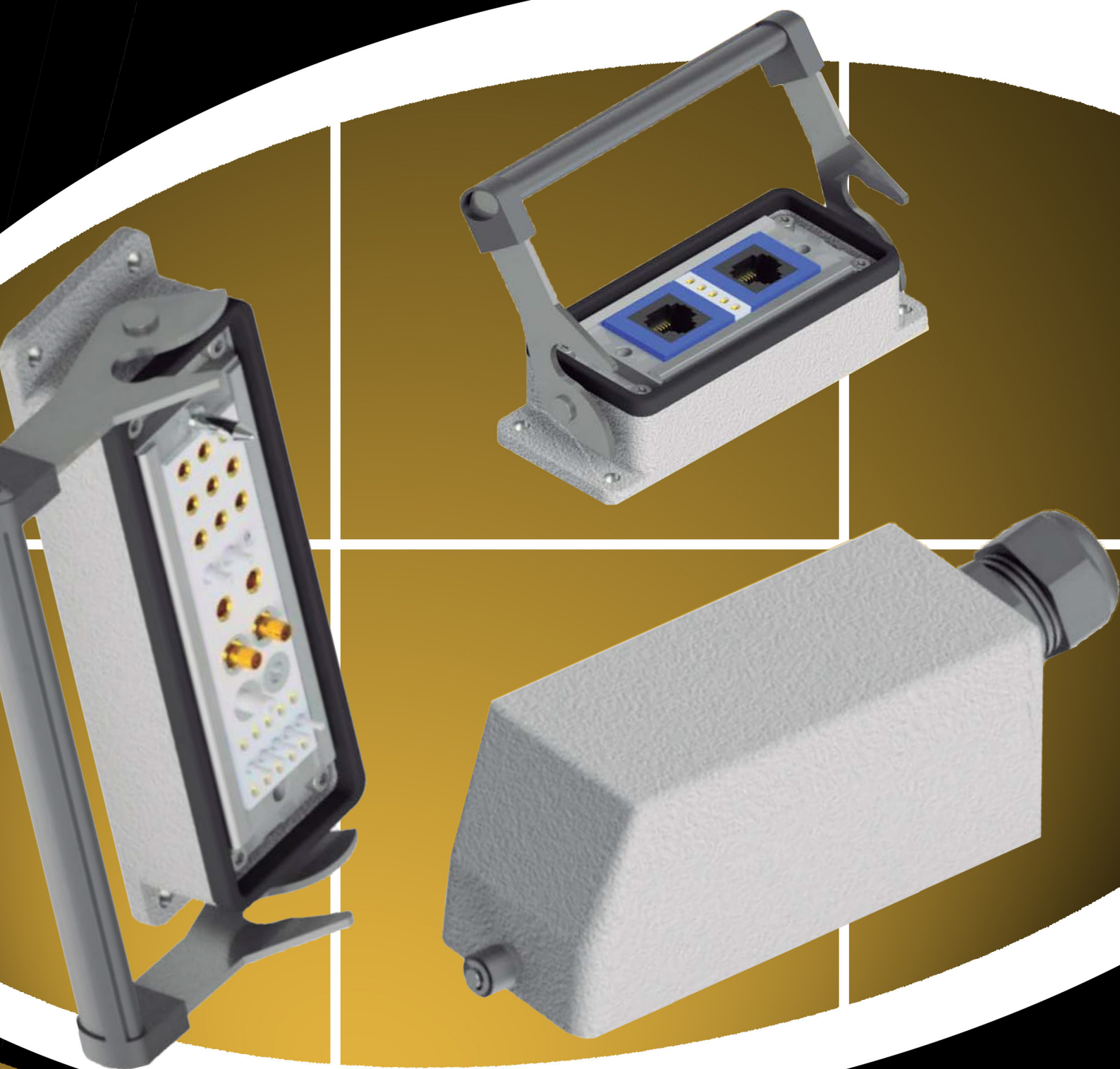


CEEP

ALFA¹R CONNECTORS

Rectangular



Part Number Reference:



Cable Entry - See pages 13 to 16

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

Variation of Contacts - See pages 4 & 5

Number of Contacts - See page 4 & 5

Number (umb) - See pages 4 & 5

Connector Gender - M: Male - See page 11
F: Female
H: Hybrid

Gender - M: Male - See pages 8 to 10
F: Female
H: Hybrid

Connector Type - 1 / 3 / 4 / 5 / 6 / 7 / 8 / 9 - See pages 6 & 7

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 13-16)



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 1221A 1223	 1222 1230 1230A 1234 1235 1236 1238 1248	 1306 1311 1312 1312A 1314 1319 1320 1322 1325 1326 1330 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 SME Type:



Vertical entry, with pivots
SME 1



Extended vertical entry, with pivots
SME 3



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

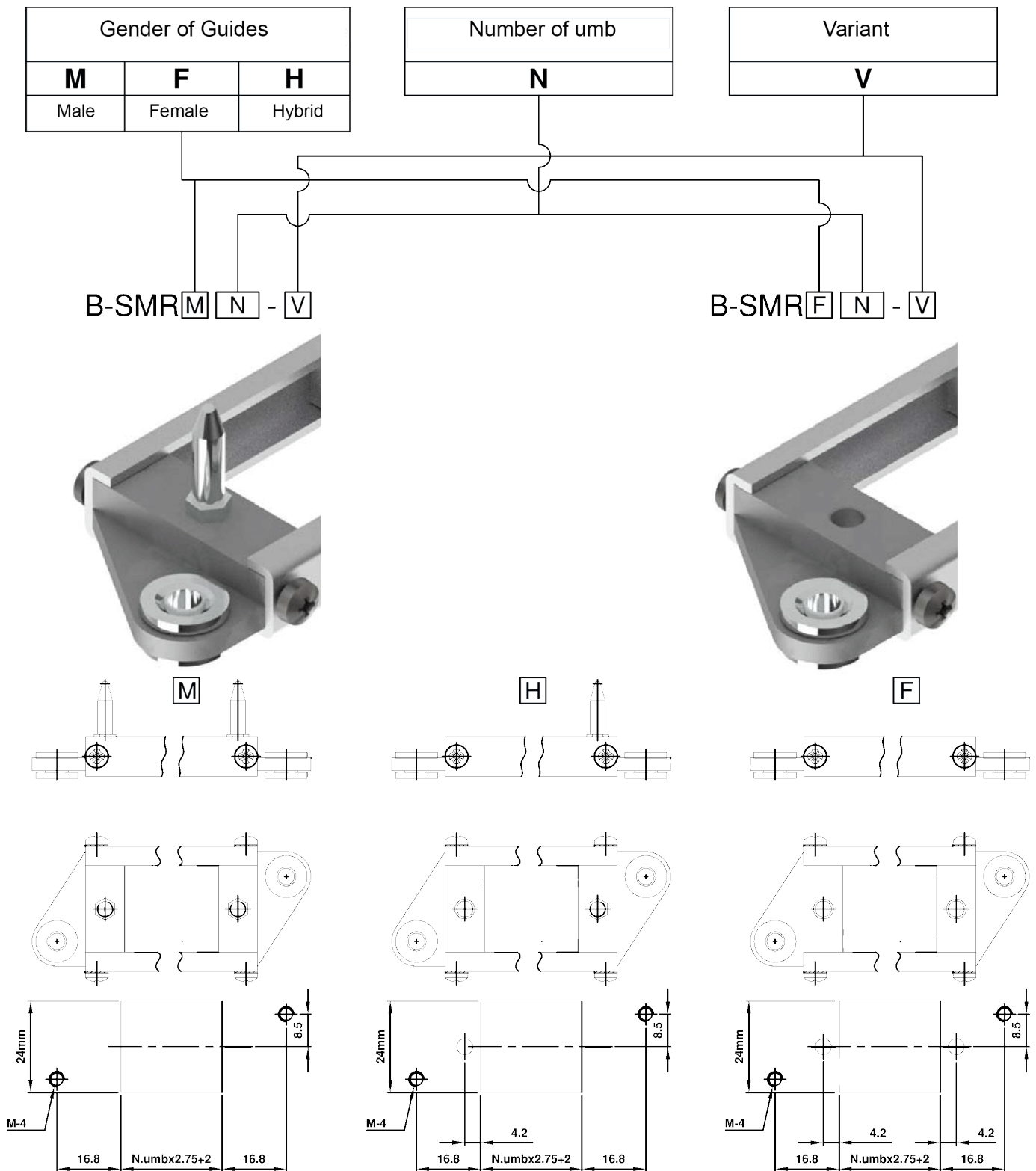


Recessed base, with lever
SME 9

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).

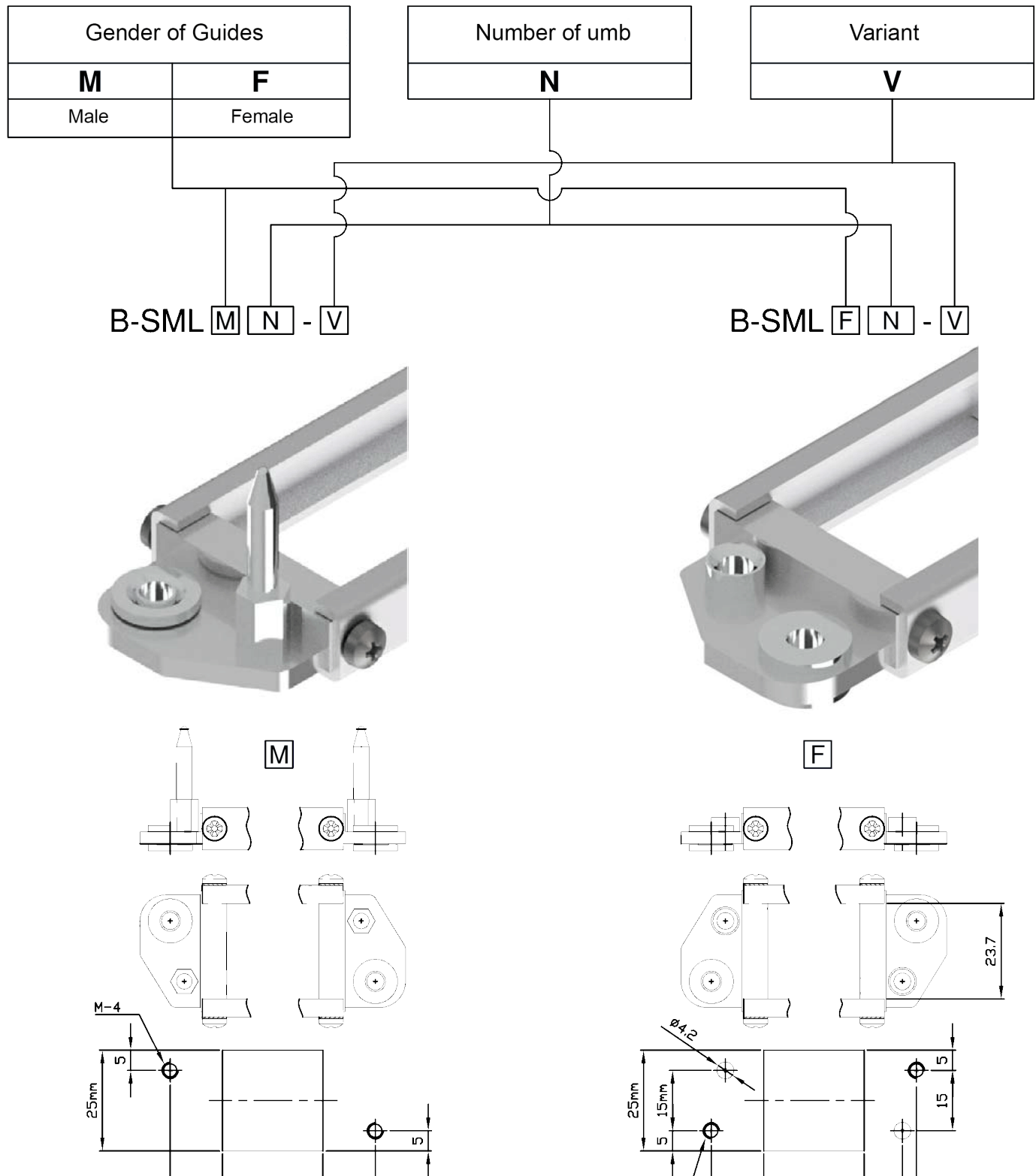
They are compatible with aluminium housings (SME series) in two sizes, 13 umb and 30 umb. The codes shown below are for empty frames (without contact blocks).



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.

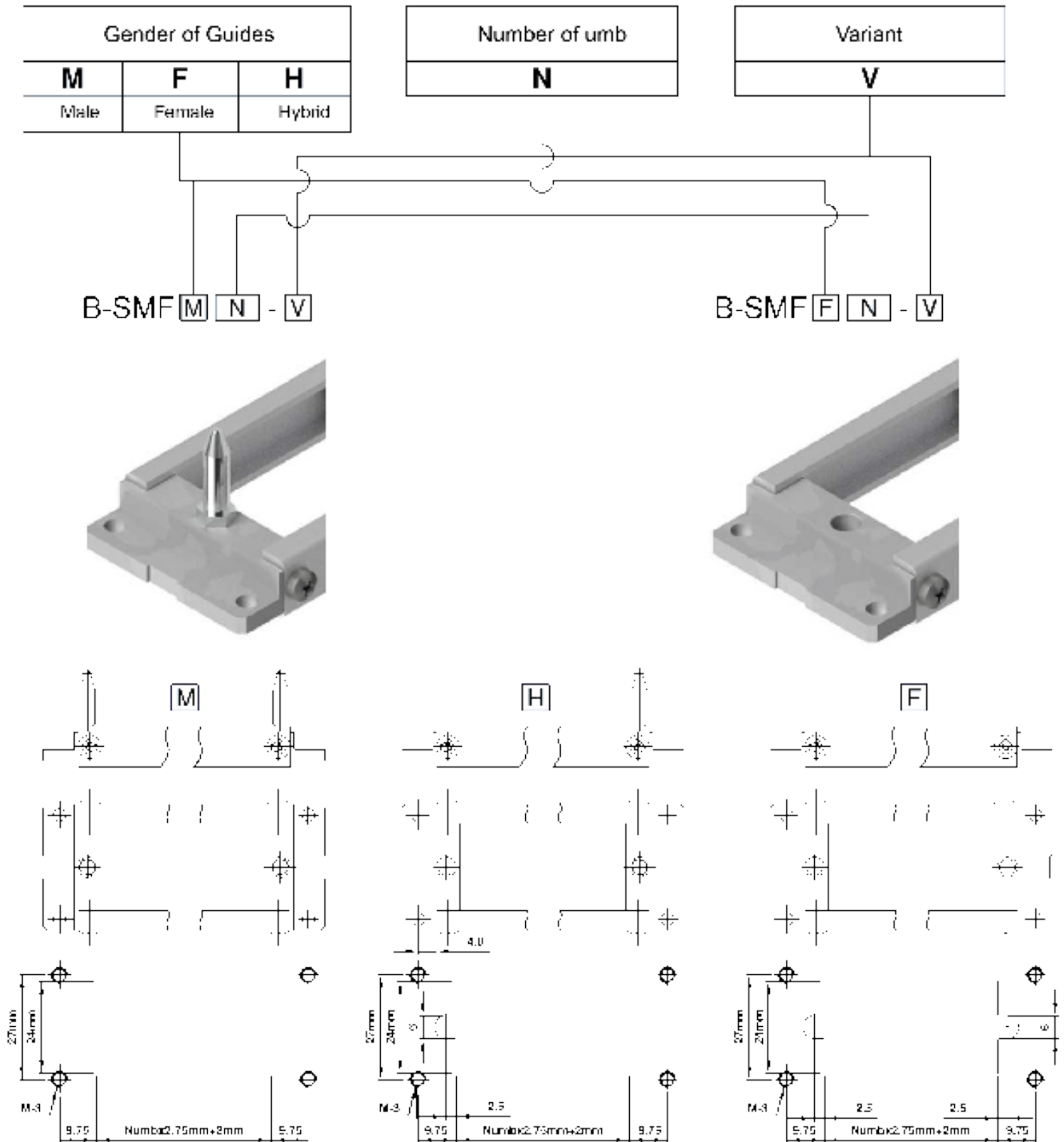
The connectors are provided with a floating clamping system. The codes shown below are for empty frames (without contact blocks).



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).

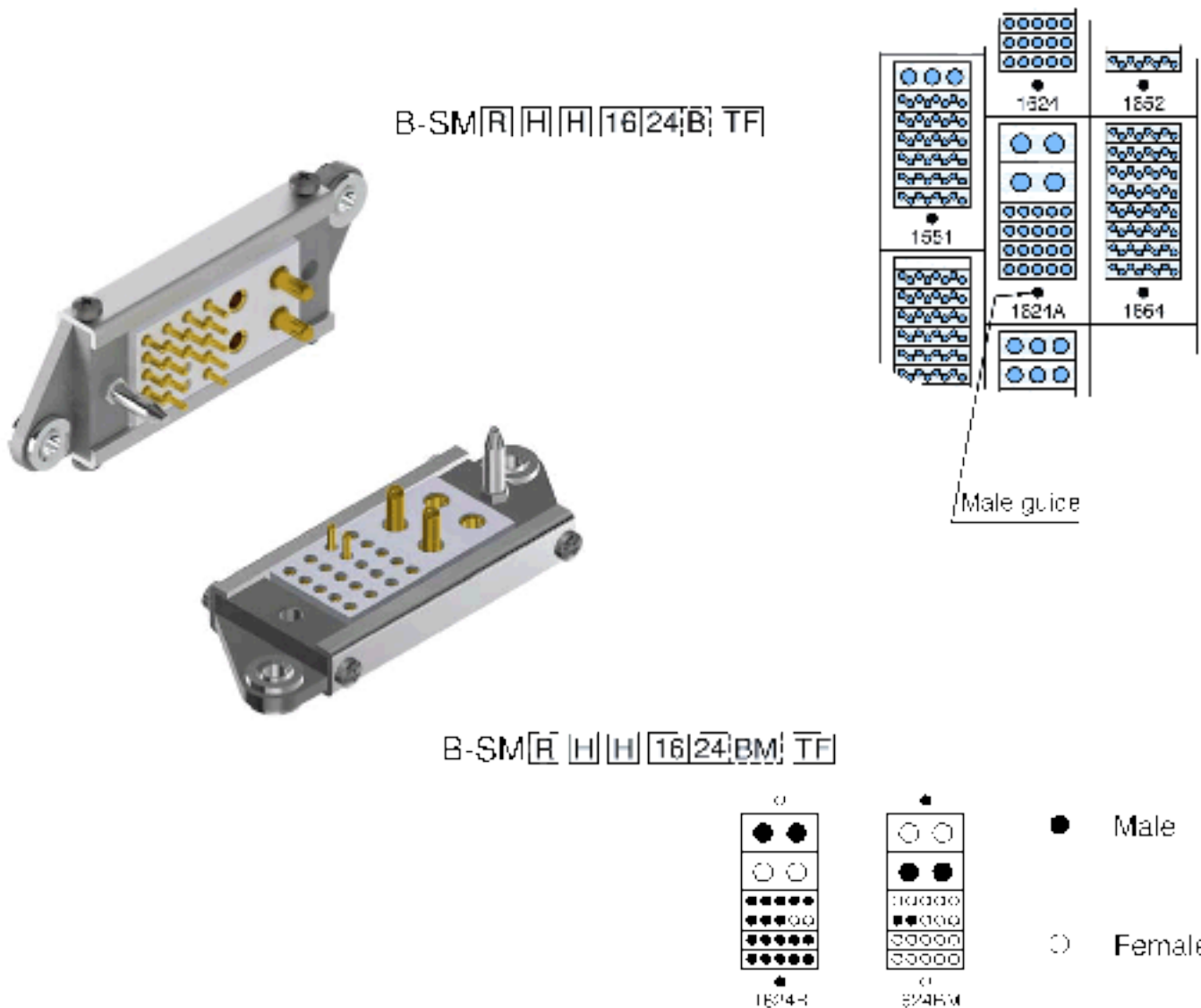
The connectors are provided with a floating fixing system. The codes shown below are for empty frames (without contact blocks).



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:

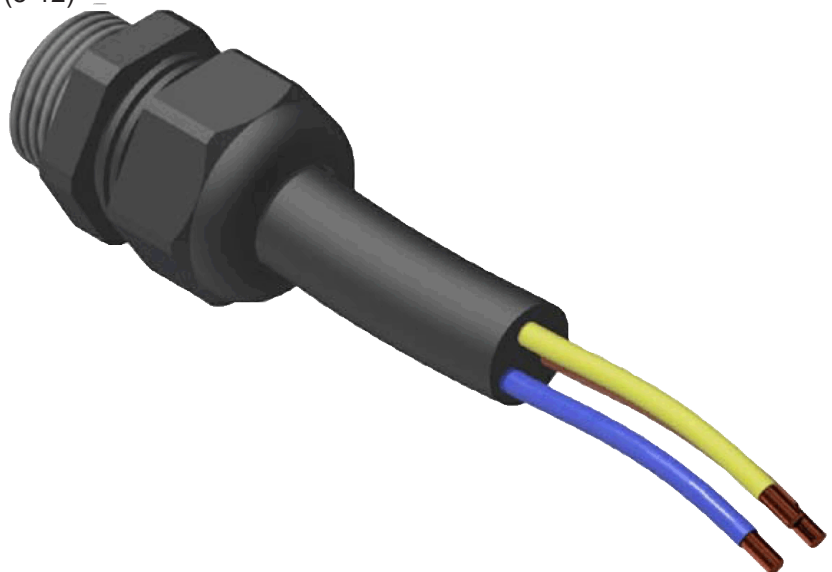
Number of Contacts	2	3	5	8	10	16
Wire section (mm²)	5.3	2.1	0.9	0.6	0.9	0.9
Average extraction force per contact	<6N	<4N	<2N			
Insulator resistance at 20 °C and 80% realitive humidity	> 10³ MΩ					
Contact resistance (male and female mated)	< 5 MΩ					
Test voltage at sea level for melamine (thermostable) (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	

Cable Glands:

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		Size	Reference			
Min	Max		Plastic	Metal	Ground Contact	Spiral
5	10	M20	A	E	-	SA
6	13		-	-	I	-
7	13		B	F	J	SB
7.5	14		-	-	L	-
10	14		D	H	-	SD
7	15	M32	B	F	-	SB
11	21		C	G	K	SC
16	24.5		-	-	L	-
20	25		D	H	-	SD
11*	23	M40	A	E	-	SA
19	28		B	F	J	SB
22	32		-	H	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

RAL

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

MAT

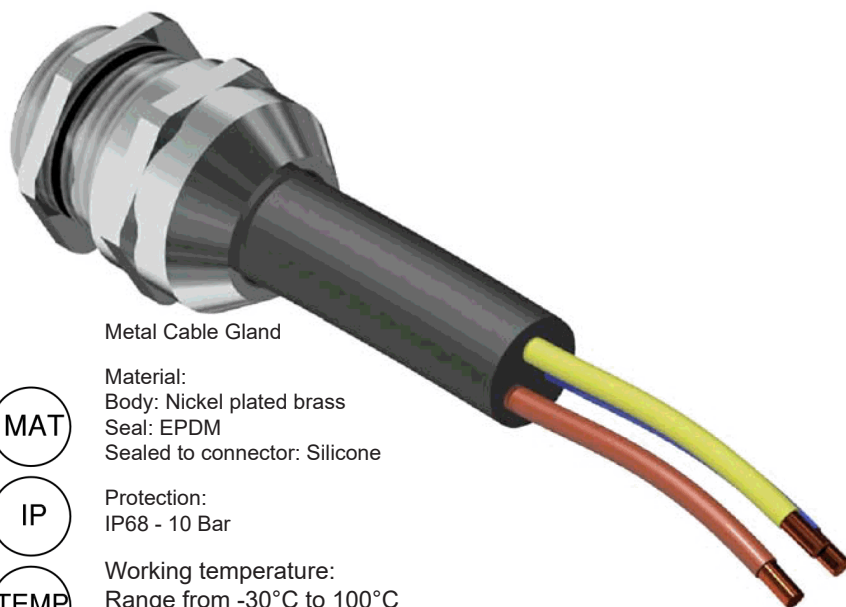
Protection:
IP68 - 5 Bar

IP

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

TEMP

Cable Glands



Metal Cable Gland

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

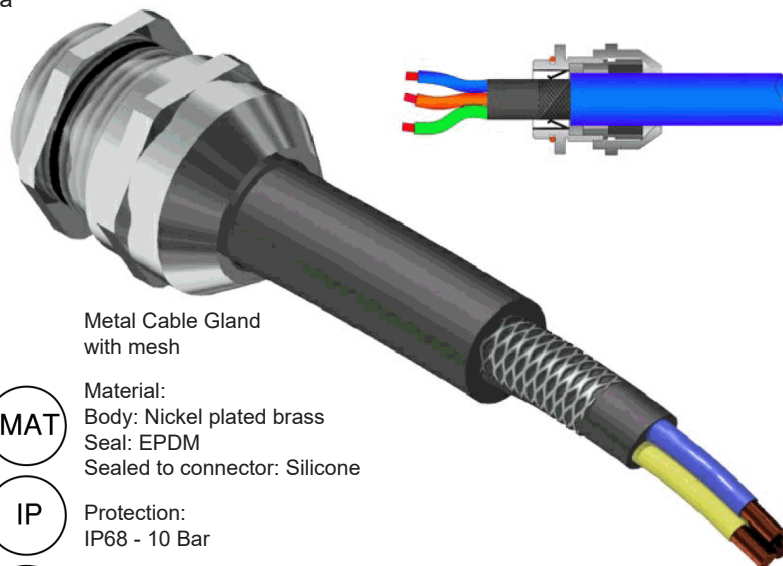
MAT

IP

Protection:
IP68 - 10 Bar

TEMP

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

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

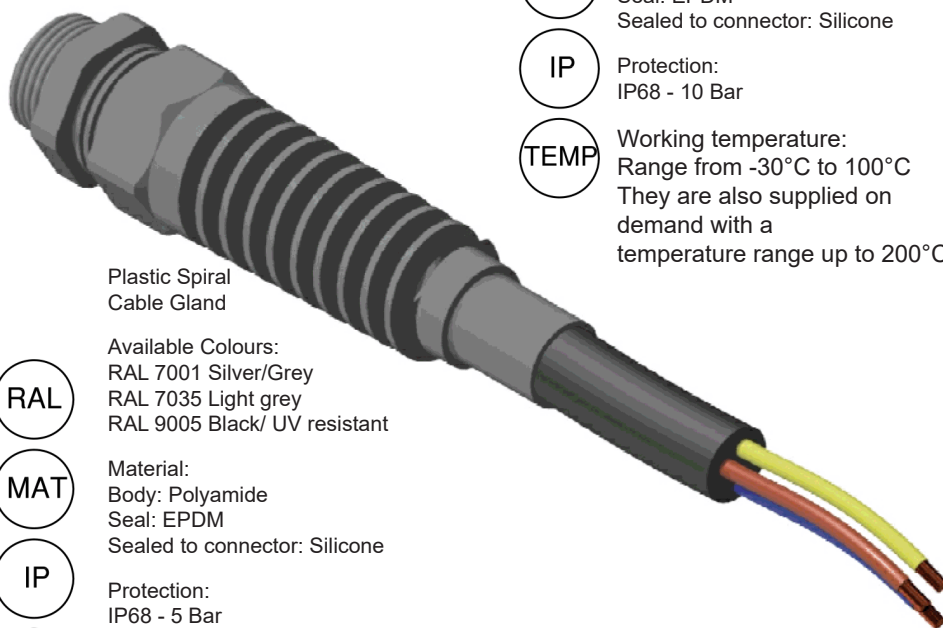
MAT

IP

Protection:
IP68 - 10 Bar

TEMP

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

RAL

MAT

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

IP

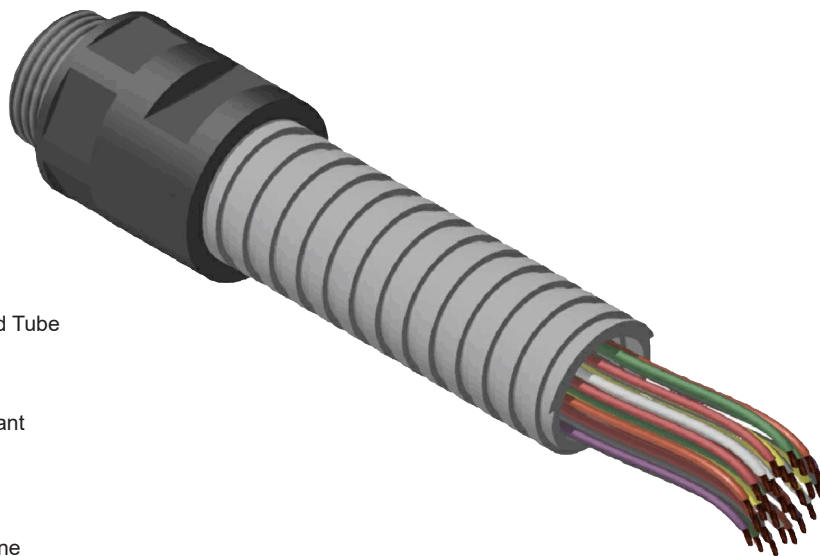
Protection:
IP68 - 5 Bar

TEMP

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

Cable Glands:

Cable Gland for Corrugated Tube				
Ø Tube			Size	Reference
Nom	Ext	Int		
10	13	10	M16	FB
12	15.8	12		FC
12	15.8	12	M20	FD
16	21.2	16.5		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

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

RAL

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

MAT

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

IP

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

TEMP

Multi-Cable Plastic Gland

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

RAL

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

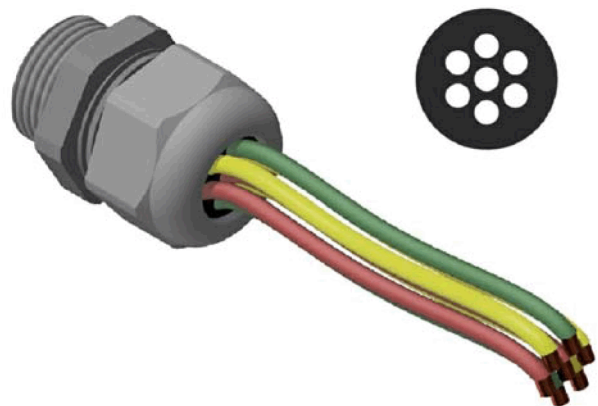
MAT

Protection:
IP54

IP

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

TEMP



Cable Glands

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



Ed-CEEPUK202105