

Series



S Series

100 Series

VP Series

MCS Series

MC Series

M Series

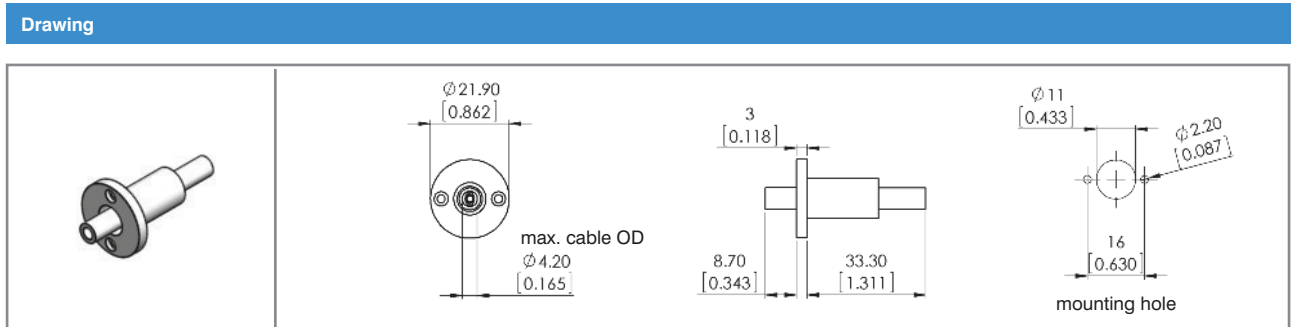
MOD Series

- Operating voltages up to 13 kVDC
- Operating current 13 Amps / 30 Amps
- Ideal for internal cabling
- Quick assembly
- Several mounting options offering enhanced flexibility

Type VarioPro Basic DF

1-pole 8 kVDC

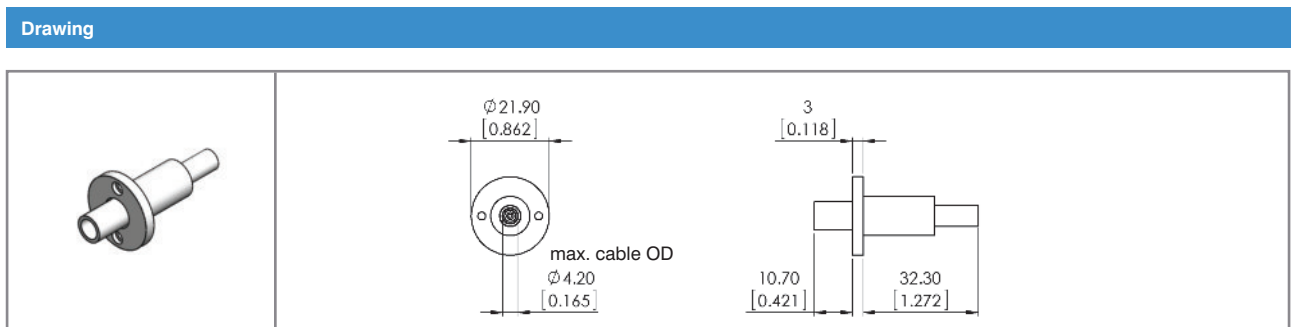
VarioPro Basic DF (feedthrough) - receptacle, single pole (VP-DF-1HV-BU)



drawing - dimensions in mm [inch]

P/N	Description	Receptacle	Number of contacts	Including contacts	Panel mount
5000200	VP-DF-1HV-BU POM AWG 20 Ag	•	1	•	•
5000201	VP-DF-1HV-BU POM AWG 20 - 16 Ag	•	1	•	•
5000202	VP-DF-1HV-BU POM AWG 26 - 22 Ag	•	1	•	•
5000203	VP-DF-1HV-BU POM AWG 16 - 15 Ag	•	1	•	•
5000204	VP-DF-1HV-BU POM AWG 14 Ag	•	1	•	•

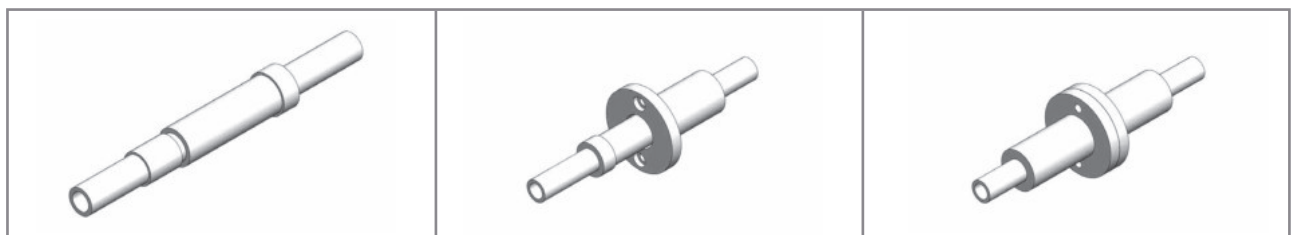
VarioPro Basic DF (feedthrough) - plug, single pole (VP-DF-1HV-ST)



drawing - dimensions in mm [inch]

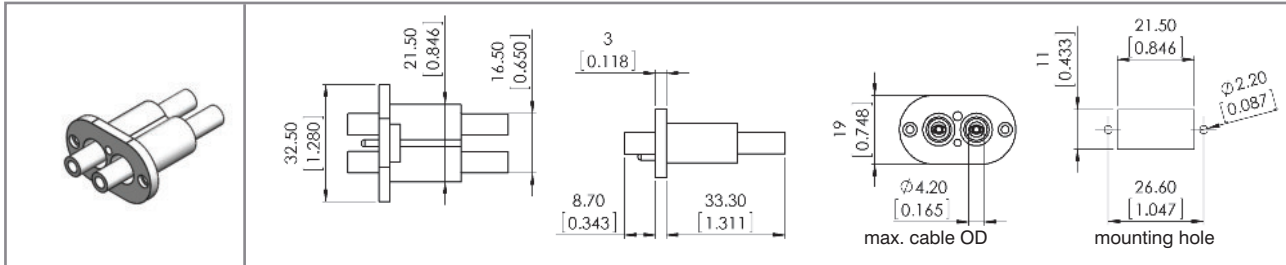
P/N	Description	Plug	Number of contacts	Including contacts	Panel mount
5000210	VP-DF-1HV-ST POM AWG 20 Ag	•	1	•	•
5000211	VP-DF-1HV-ST POM AWG 20 - 16 Ag	•	1	•	•
5000212	VP-DF-1HV-ST POM AWG 26 - 22 Ag	•	1	•	•
5000213	VP-DF-1HV-ST POM AWG 16 - 15 Ag	•	1	•	•
5000214	VP-DF-1HV-ST POM AWG 14 Ag	•	1	•	•

Possible combinations



VarioPro Basic DF (feedthrough) - receptacle, 2-pole (VP-DF-2HV-BU)

Drawing

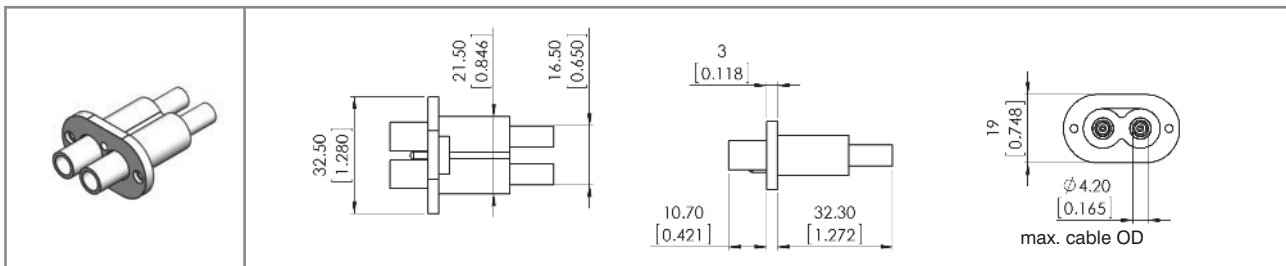


drawing - dimensions in mm [inch]

P/N	Description	Receptacle	Number of contacts	Including contacts	Panel mount
5000220	VP-DF-2HV-BU POM AWG 26 - 22 Ag	•	2	•	•
5000221	VP-DF-2HV-BU POM AWG 20 Ag	•	2	•	•
5000222	VP-DF-2HV-BU POM AWG 20 - 16 Ag	•	2	•	•
5000223	VP-DF-2HV-BU POM AWG 16 - 15 Ag	•	2	•	•
5000224	VP-DF-2HV-BU POM AWG 14 Ag	•	2	•	•


VarioPro Basic DF (feedthrough) - plug, 2-pole (VP-DF-2HV-ST)

Drawing



drawing - dimensions in mm [inch]

P/N	Description	Plug	Number of contacts	Including contacts	Panel mount
5000230	VP-DF-2HV-ST POM AWG 26 - 22 Ag	•	2	•	•
5000231	VP-DF-2HV-ST POM AWG 20 Ag	•	2	•	•
5000232	VP-DF-2HV-ST POM AWG 20 - 16 Ag	•	2	•	•
5000233	VP-DF-2HV-ST POM AWG 16 - 15 Ag	•	2	•	•
5000234	VP-DF-2HV-ST POM AWG 14 Ag	•	2	•	•

 **Cables and tools:** page 69

Assembly Instructions Series-VP

Basic Feedthrough - plug

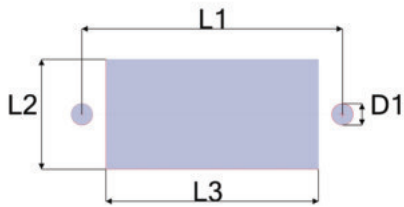
1.



Part as supplied

Shrinking tube (1), male contact (2), connector shell (3)

2.



Panel cut out

Type	D1 mm [inch]	L1 mm [inch]	L2 mm [inch]	L3 mm [inch]
VP-DF-2HV-ST	2.20 [.087"]	26.60 [1.047"]	11.20 [.441"]	21.70 [.854"]

3.



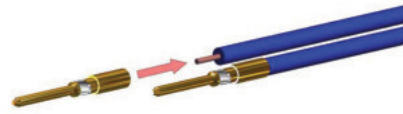
Place shrinking tube (1) on cable

4.



Remove dielectric insulation (L4 = 5-8 mm)
[.197" - .315"]

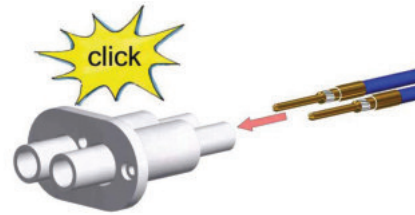
5.



Solder or crimp contact (2) on conductor

⚠ Please notice for soldering: Tin-solder must not remain on contact surface

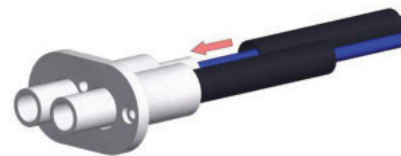
6.



Slide contact (2) completely into connector shell (3) until contact snaps

🗨 Pull gently to check that contact is correctly located and remains in position

7.



Slide shrinking tube (1) on connector shell (3)

8.



Shrink tubes - shrinking temperature 110°C

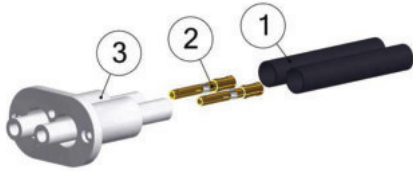
9.



Assembly finished

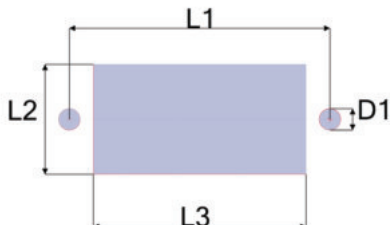
Assembly Instructions Series-VP Basic Feedthrough - receptacle

1.



Part as supplied
Shrinking tube (1), female contact (2),
connector shell (3)

2.



Panel cut out

Type	D1 mm [inch]	L1 mm [inch]	L2 mm [inch]	L3 mm [inch]
VP-DF-2HV-BU	2.20 [.087"]	26.60 [1.047"]	11.20 [.441"]	21.70 [.854"]

3.



Place shrinking tube (1) on cable

4.



Remove dielectric insulation (L4 = 5-8 mm)
[.197" - .315"]

5.



Solder or crimp contact (2) on conductor
⚠ Please notice for soldering: Tin-solder must
not remain on contact surface

6.



**Slide contact (2) completely into connector
shell (3) until contact snaps**
🗨 Pull gently to check that contact is correctly
located and remains in position

7.



Slide shrinking tube (1) on connector shell (3)

8.



Shrink tubes - shrinking temperature 110°C

9.



Assembly finished

Single parts / Contacts for types VarioPro Clip Lock, Basic and Basic Feedthrough

Male contacts 1.6 mm

P/N	Description	Cross section in mm ² (D)	AWG (D)	Silver plated	Gold plated	Drawing
6575085	male contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575086	male contact 1.6 mm / AWG 20	0.5	20	•		
6575088	male contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575090	male contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575083	male contact 1.6 mm / AWG 14	2.5	14	•		
6575118	male contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575121	male contact AU 1.6 mm / AWG 20	0.5	20		•	
6575116	male contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575124	male contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575125	male contact AU 1.6 mm / AWG 14	2.5	14		•	








drawing - dimensions in mm [inch]

Female contacts 1.6 mm

P/N	Description	Cross section in mm ² (D)	AWG (D)	Silver plated	Gold plated	Drawing
6575095	female contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575107	female contact 1.6 mm / AWG 20	0.5	20	•		
6575098	female contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575100	female contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575084	female contact 1.6 mm / AWG 14	2.5	14	•		
6575127	female contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575131	female contact AU 1.6 mm / AWG 20	0.5	20		•	
6575117	female contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575132	female contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575133	female contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]

Suitable cables for Series VP

Part No.	3330090	3330091	3330092	3330093	3330094	3330095	3330020
							
Operating voltage DC	15 kVDC						10 kVDC
Operating voltage AC rms	-						-
Conductor size							
AWG	AWG 24	AWG 22	AWG 20	AWG 18	AWG 16	AWG 14	AWG 14
Strands	19 x AWG 36	7 x AWG 30	10 x AWG 30	16 x AWG 30	26 x AWG 30	41 x AWG 30	50 x 0.25 mm
Cross section	0.24 mm ²	0.36 mm ²	0.51 mm ²	0.81 mm ²	1.32 mm ²	2.08 mm ²	2.5 mm ²
Diameter	0.55 mm	0.68 mm	0.81 mm	1.02 mm	1.30 mm	1.63 mm	1.78 mm
Dielectric insulation							
Diameter	2.7 mm	2.9 mm	3.0 mm	3.3 mm	3.5 mm	3.9 mm	3.8 mm
Material	silicone						silicone
Ozone and corona resistant	YES						-
UL	AWM Style 3239						-
Temperature rating	max. 150°C						-20°C to +180°C
Color	red*						black
Fits connector types	VarioPro Clip Lock 1-, 2-, and 3-pole VarioPro Basic VarioPro Basic Feedthroughs 1-, and 2-pole						

* Different colors available on request

Tools

Part No.	Description	Connector types
3000001	Extracting tool for contacts 1.6 mm - male and female	VP ClipLock, VP Basic
3000015	Crimping tool for contacts 1.6 mm - male and female incl. pliers, contact holder and crimping cheeks	VP ClipLock, VP Basic