



TENEO
CONNECTING SOLUTIONS

VS SERIES

durable instrument connectors
for hermetic and non-hermetic
applications



PRODUCT CATALOGUE

v08 2022



CATALOGUE CONTENTS

BASIC INFORMATION

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- 4 Product scale
- 6 The order code assembly

PARAMETERS OF INDIVIDUAL CONNECTORS

- 8 Panel Mounted Receptacles
- 14 Cable Mounted In-Line Plugs
- 20 Cable Mounted Angled Plugs





GENERAL TECHNICAL PARAMETERS





Unshielded multi-pole VS connectors are designed for use in control, automation and telecommunications technology, stationery and mobile devices, signaling and remote control applications, as well as in heavy industry.






A threaded coupling nuts with the possibility of sealing is used for the connection. The design of the connector allows connecting and disconnecting the circuit under voltage (but not under current load), and this with all poles of the connector simultaneously.



For example VS series connectors are used for connecting flight instruments in Czech and Polish aircraft & drones, both military and civil.

They are popular for their robustness and increased climate resistance.

-  OPERATING VOLTAGE U_n
< 115 V \approx / 400 Hz
-  CONTACT RATED CURRENT I_n
3 A for contact \varnothing 1 mm
5 A for contact \varnothing 1,5 mm
-  CONTACT RESISTANCE OF A CONTACT PAIR
 $\leq 10\text{ m}\Omega$ for contact \varnothing 1 mm
 $\leq 4\text{ m}\Omega$ for contact \varnothing 1,5 mm
-  INSULATION RESISTANCE
 $\geq 1\text{ G}\Omega$ under normal climatic conditions
 $\geq 10\text{ G}\Omega$ at 40 °C, 98% humidity, pressure 100 kPa

-  ENVIRONMENTAL RATING
U2
-  TEMPERATURE RATING (VS, VSG)
-60 °C to +60 °C
-  TEMPERATURE RATING (VST)
-60 °C to +100 °C
-  RESISTANCE TO RELATIVE HUMIDITY
< 98 % at 20 °C

-  CONNECTOR DIAMETER
17 mm – 30 mm
-  NUMBER OF CONTACTS
2 – 32
-  CROSS SECTION OF CONNECTABLE WIRE
0,5 mm² / 1 mm²
-  WIRE CONNECTION METHOD
Soldering
-  NUMBER OF CONNECTIONS & DISCONNECTIONS
< 500

-  MAX. SHOCK RESISTANCE
12 g
-  MAX. VIBRATION RESISTANCE
5 g at a frequency of 10 – 300 Hz

-  AIRTIGHTNESS – PRESSURE DIFFERENCE (VSG)
100 kPa

VS24B19G1AU2
19 Sockets
max. 57 A
ø 24 mm

VS30B32G1AU2
32 Sockets
max. 96 A
ø 30 mm

VS17B2S1U2
2 Pins
max. 10 A
ø 17 mm

VS17B3S1U2
3 Pins
max. 15 A
ø 17 mm

VS18B4S1U2
4 Pins
max. 20 A
ø 18 mm

VS18B5S1U2
5 Pins
max. 25 A
ø 18 mm

VS24B11S1U2
11 Pins
max. 55 A
ø 24 mm

VS24B19S1AU2
19 Pins
max. 57 A
ø 24 mm

VS27B14S1U2
14 Pins
max. 70 A
ø 27 mm

VS30B32S1AU2
32 Pins
max. 96 A
ø 30 mm

VS17KPN2G1U2
2 Sockets
max. 10 A
ø 17 mm

VS17KPN3G1U2
3 Sockets
max. 15 A
ø 17 mm

VS18KPN4G1U2
4 Sockets
max. 20 A
ø 18 mm

VS18KPN5G1U2
5 Sockets
max. 25 A
ø 18 mm

VS24KPN11G1U2
11 Sockets
max. 55 A
ø 24 mm

VS24KPN19G1AU2
19 Sockets
max. 57 A
ø 24 mm

VS27KPN14G1U2
14 Sockets
max. 70 A
ø 27 mm

VS30KPN32G1AU2
32 Sockets
max. 96 A
ø 30 mm

VS24KPN19S1AU2
19 Pins
max. 57 A
ø 24 mm

VS30KPN32S1AU2
32 Pins
max. 96 A
ø 30 mm

VS17KUN2G1U2
2 Sockets
max. 10 A
ø 17 mm

VS17KUN3G1U2
3 Sockets
max. 15 A
ø 17 mm

VS18KUN4G1U2
4 Sockets
max. 20 A
ø 18 mm

VS18KUN5G1U2
5 Sockets
max. 25 A
ø 18 mm

PANEL MOUNTED RECEPTACLES

WITH PINS

IN-LINE

WITH SOCKETS

CONNECTOR PAIR CONNECTION METHOD
Threaded Coupling Nut

CABLE MOUNTED PLUGS

WITH SOCKETS

IN-LINE

WITH PINS

ANGLED

WITH SOCKETS

CABLE TIGHTENING METHOD
Mechanical Clamp Nut with Felt

BODY MATERIAL
Anodized Aluminum

CONTACT MATERIAL
Silver & Gold Plated Brass

BODY COLOR
Olive Gray / Gold

VS

18

KU

N

5

G

1

U2

DEGREE OF
RESISTANCE

BODY
DIAMETER

BODY
STYLE

BODY
PERFORMANCE

NR. OF
CONTACTS

CONTACT
TYPE

CONTACT
MATERIAL

ENVIRONMENTAL
RATING



Blank
Standard



G
Airtight
construction



T
With increased
temperature
resistance



17
ø 17 mm



18
ø 18 mm



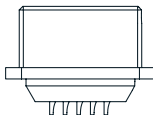
24
ø 24 mm



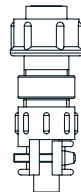
27
ø 27 mm



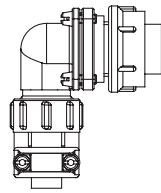
30
ø 30 mm



B
Panel Mounted
Receptacle



KP
Cable Mounted
In-Line Plug



KU
Cable Mounted
Angled Plug



N
Unshielded



2



3



4



5



11



14



19



32



S
Pin



G
Socket



Blank
Silver Plated
Brass

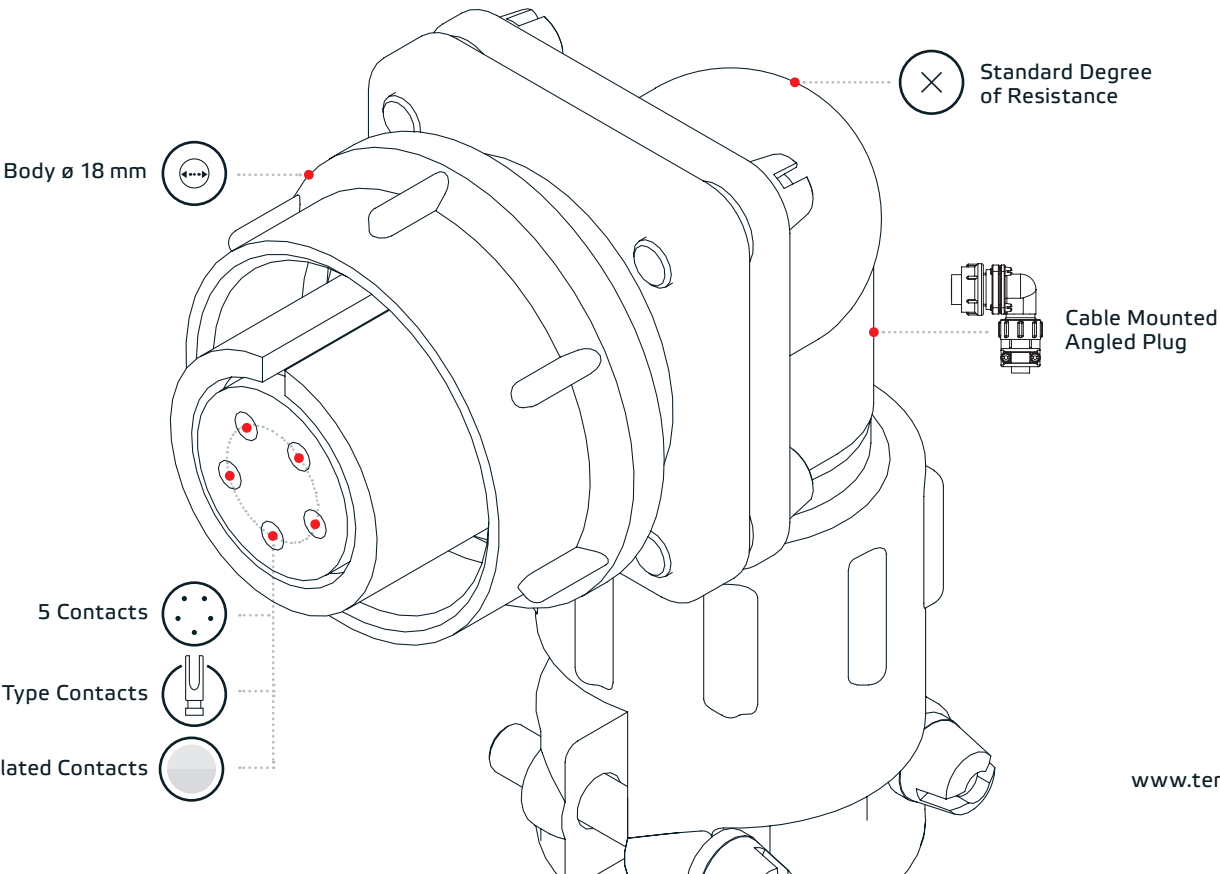


A
Gold Plated
Brass



U2

VS18KUN5G1U2





PANEL MOUNTED RECEPTACLES

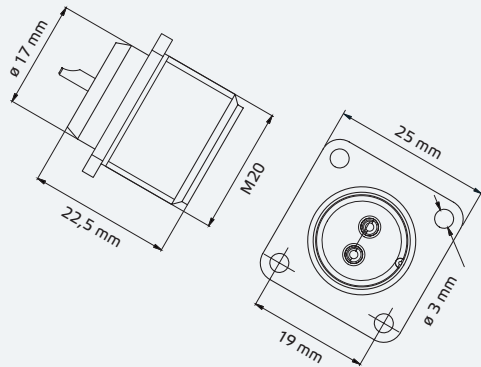


17
ø 17 mm



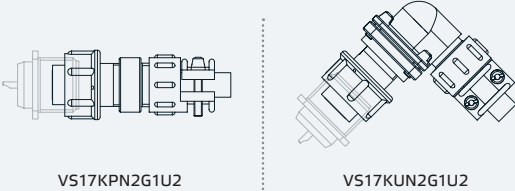
VS17B2S1U2

Panel Mounted Receptacle
with 2 Pins & Flange



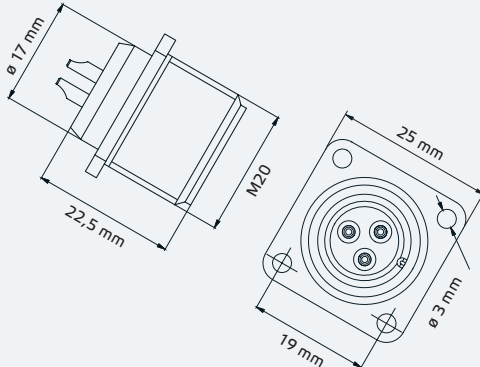
Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	10 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
2 Pins	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	Yes VSG17B2S1U2	Yes VST17B2S1U2

Counterparts



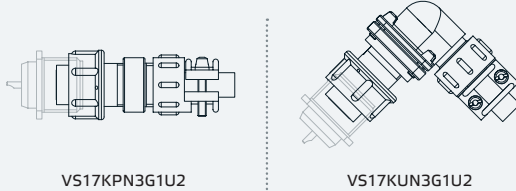
VS17B3S1U2

Panel Mounted Receptacle
with 3 Pins & Flange

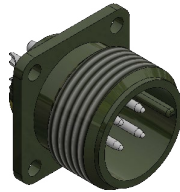


Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	15 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
3 Pins	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	Yes VSG17B3S1U2	Yes VST17B3S1U2

Counterparts

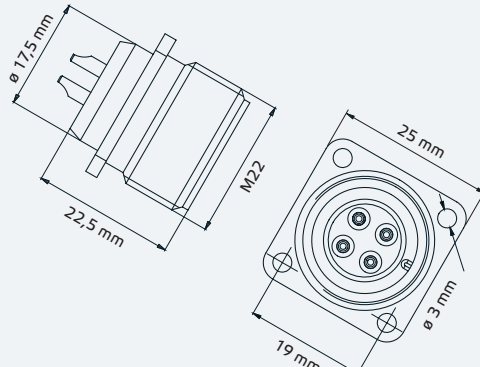


18
ø 18 mm



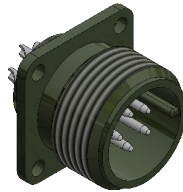
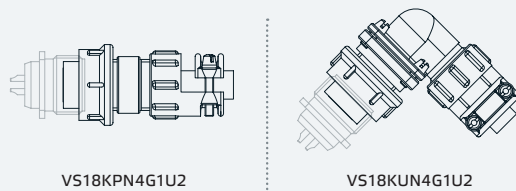
VS18B4S1U2

Panel Mounted Receptacle
with 4 Pins & Flange



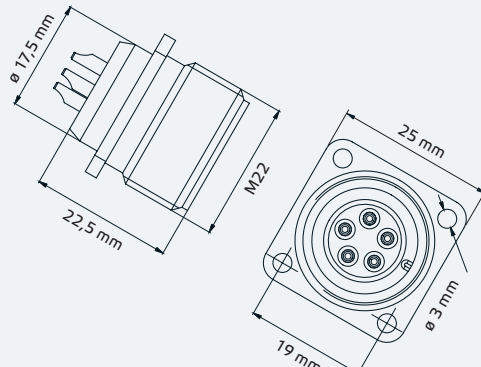
Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	20 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
4 Pins	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	Yes VSG18B4S1U2	Yes VST18B4S1U2

Counterparts



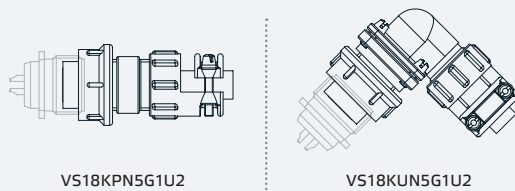
VS18B5S1U2

Panel Mounted Receptacle
with 5 Pins & Flange



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	25 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
5 Pins	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	Yes VSG18B5S1U2	Yes VST18B5S1U2

Counterparts





24
ø 24 mm



27
ø 27 mm

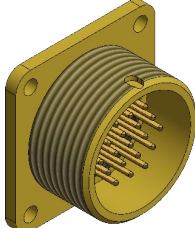


30
ø 30 mm



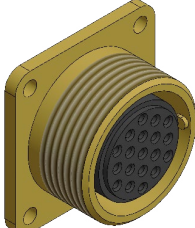
VS24B11S1U2

Panel Mounted Receptacle
with 11 Pins & Flange



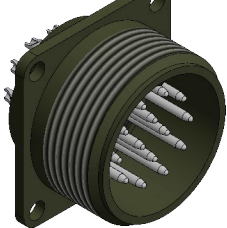
VS24B19S1AU2

Panel Mounted Receptacle
with 19 Pins & Flange



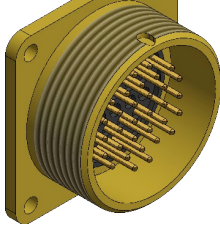
VS24B19G1AU2

Panel Mounted Receptacle
with 19 Sockets & Flange



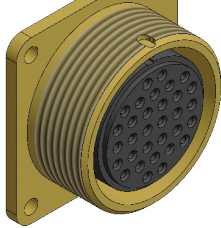
VS27B14S1U2

Panel Mounted Receptacle
with 14 Pins & Flange



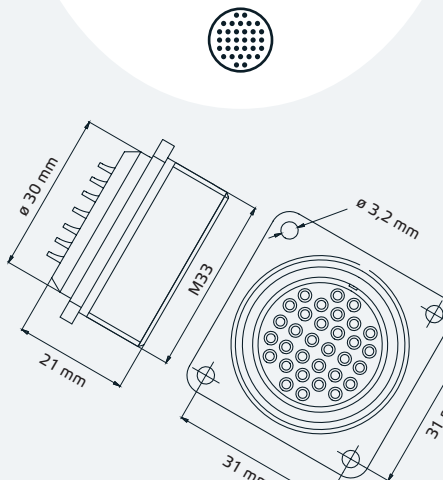
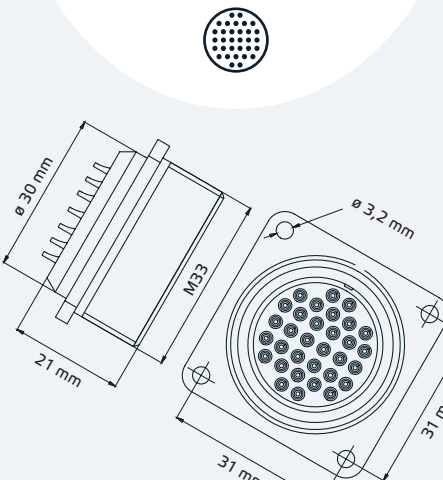
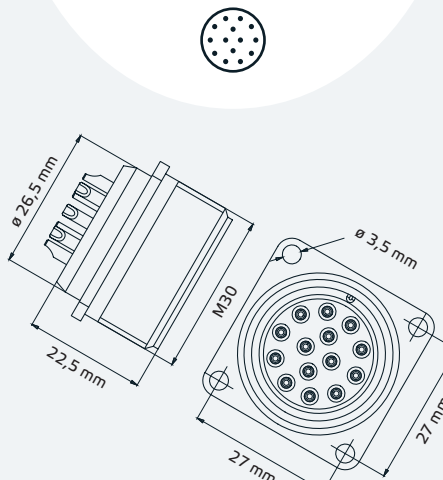
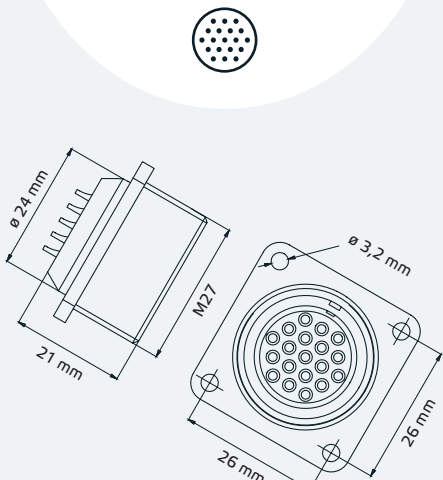
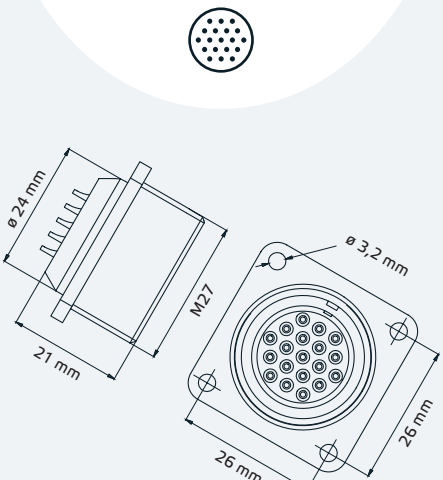
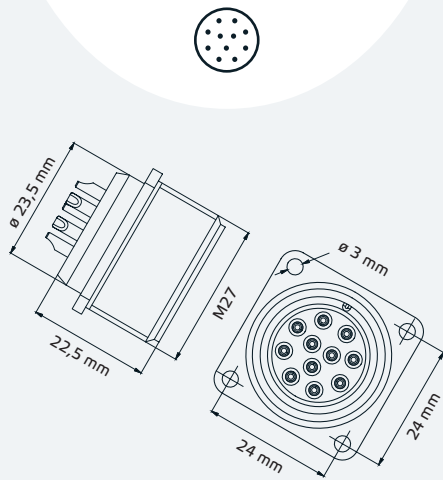
VS30B32S1AU2

Panel Mounted Receptacle
with 32 Pins & Flange



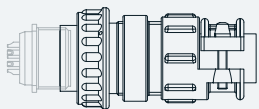
VS30B32G1AU2

Panel Mounted Receptacle
with 32 Sockets & Flange



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	55 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
11 Pins	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST24B11S1U2

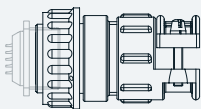
Counterpart



VS24KPN11G1U2

Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	57 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
19 Pins	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST24B19S1AU2

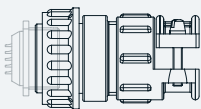
Counterpart



VS24KPN19G1AU2

Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	57 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
19 Sockets	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST24B19G1AU2

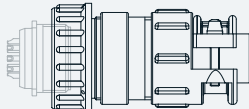
Counterpart



VS24KPN19S1AU2

Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	70 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
14 Pins	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST27B14S1U2

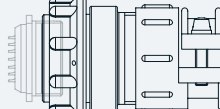
Counterpart



VS27KPN14G1U2

Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	96 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
32 Pins	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST30B32S1AU2

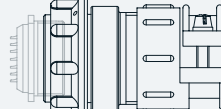
Counterpart



VS30KPN32G1AU2

Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	96 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
32 Sockets	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST30B32G1AU2

Counterpart



VS30KPN32S1AU2



CABLE MOUNTED IN-LINE PLUGS

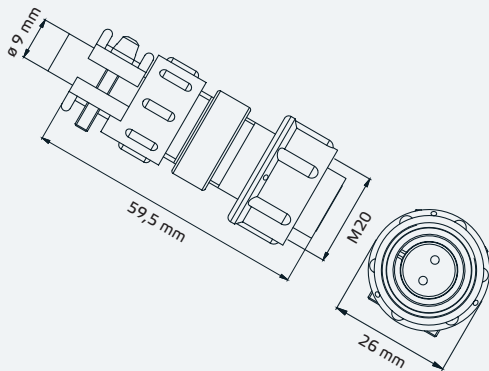


17
ø 17 mm



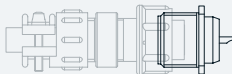
VS17KPN2G1U2

Cable Mounted In-Line Plug
with 2 Sockets

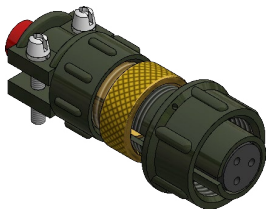


Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	10 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
2 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST17KPN2G1U2

Counterpart

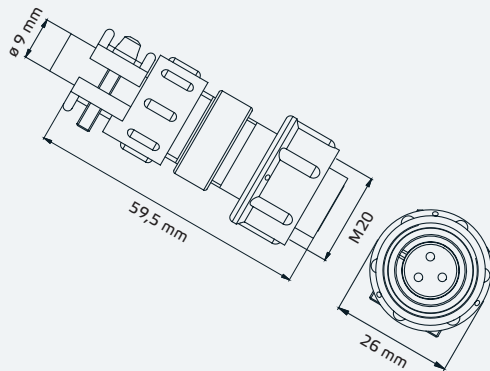


VS17B2S1U2



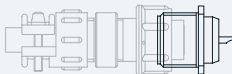
VS17KPN3G1U2

Cable Mounted In-Line Plug
with 3 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	15 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
3 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST17KPN3G1U2

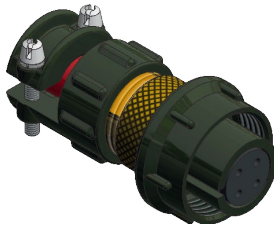
Counterpart



VS17B3S1U2

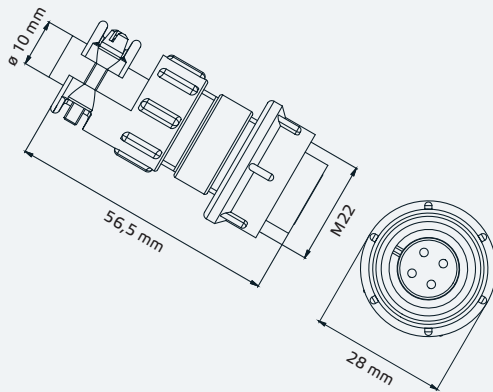


18
ø 18 mm



VS18KPN4G1U2

Cable Mounted In-Line Plug
with 4 Sockets

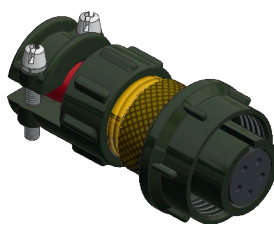


Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	20 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
4 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST18KPN4G1U2

Counterpart

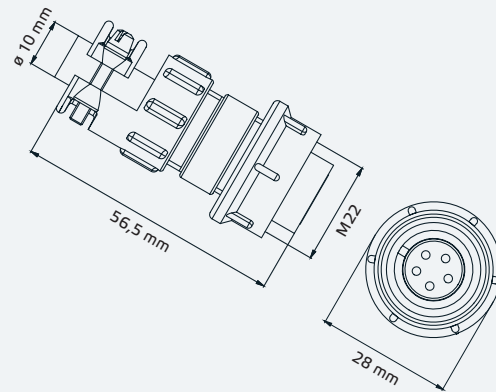


VS18B4S1U2



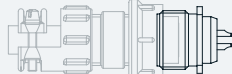
VS18KPN5G1U2

Cable Mounted In-Line Plug
with 5 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	25 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
5 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST18KPN5G1U2

Counterpart



VS18B5S1U2

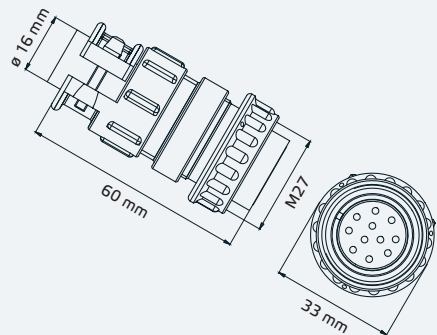
CABLE MOUNTED IN-LINE PLUGS



24
ø 24 mm

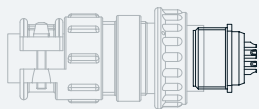


VS24KPN11G1U2
Cable Mounted In-Line Plug
with 11 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	55 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
11 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST24KPN11G1U2

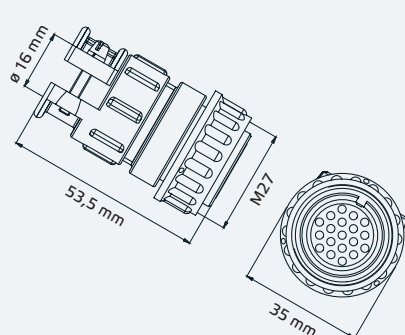
Counterpart



VS24B11S1U2

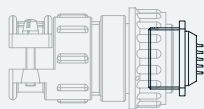


VS24KPN19G1AU2
Cable Mounted In-Line Plug
with 19 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	57 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
19 Sockets	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST24KPN19G1AU2

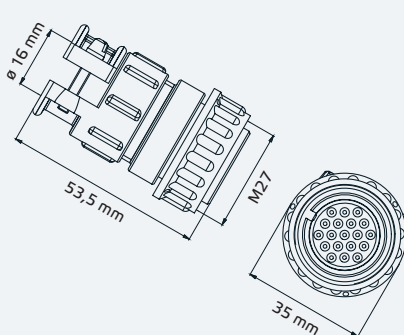
Counterpart



VS24B19S1AU2

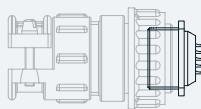


VS24KPN19S1AU2
Cable Mounted In-Line Plug
with 19 Pins



Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	57 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
19 Pins	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST24KPN19S1AU2

Counterpart



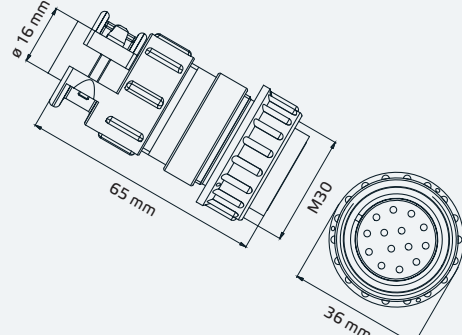
VS24B19G1AU2



27
ø 27 mm

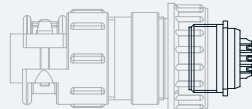


VS27KPN14G1U2
Cable Mounted In-Line Plug
with 14 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	70 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
14 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST27KPN14G1U2

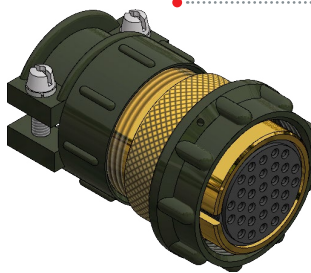
Counterpart



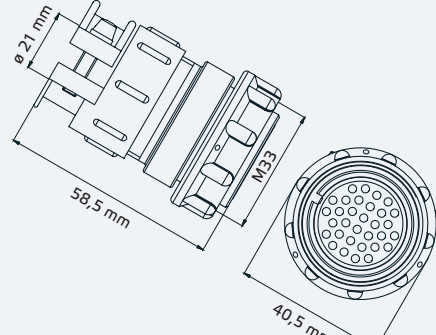
VS27B14S1U2



30
ø 30 mm



VS30KPN32G1AU2
Cable Mounted In-Line Plug
with 32 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	96 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
32 Sockets	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST30KPN32G1AU2

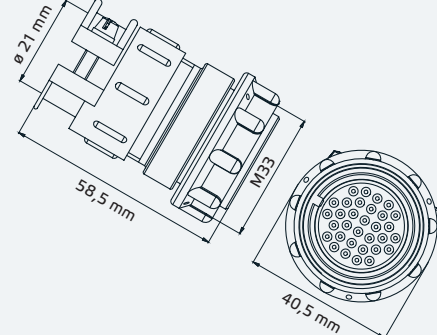
Counterpart



VS30B32S1AU2



VS30KPN32S1AU2
Cable Mounted In-Line Plug
with 32 Pins



Contact max. I _n	Connector max. I _n	Connector max. U _n
3 A	96 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
32 Pins	1 mm	0,5 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Gold Plated	No	Yes VST30KPN32S1AU2

Counterpart



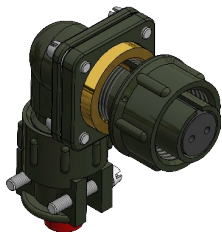
VS30B32G1AU2



CABLE MOUNTED ANGLED PLUGS

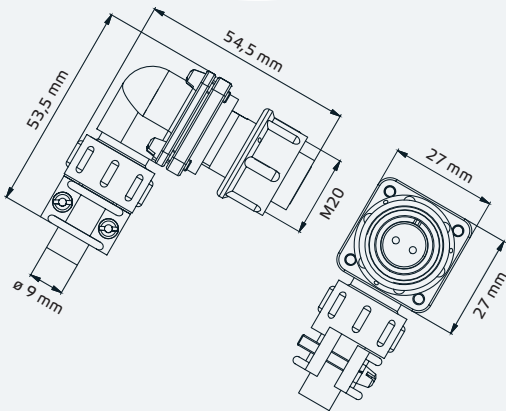


17
ø 17 mm



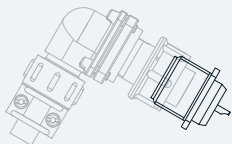
VS17KUN2G1U2

Cable Mounted Angled Plug
with 2 Sockets

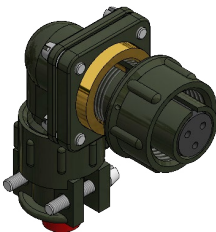


Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	10 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
2 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST17KUN2G1U2

Counterpart

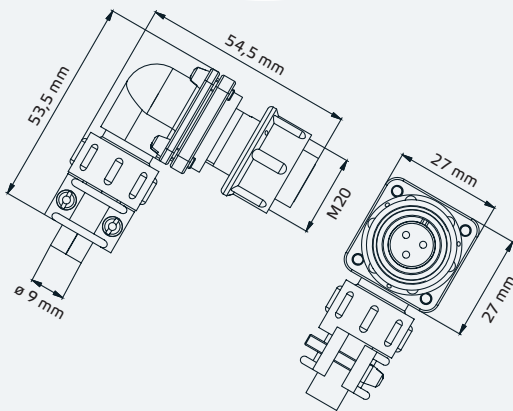


VS17B2S1U2



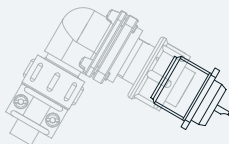
VS17KUN3G1U2

Cable Mounted Angled Plug
with 3 Sockets



Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	15 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
3 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST17KUN3G1U2

Counterpart



VS17B3S1U2

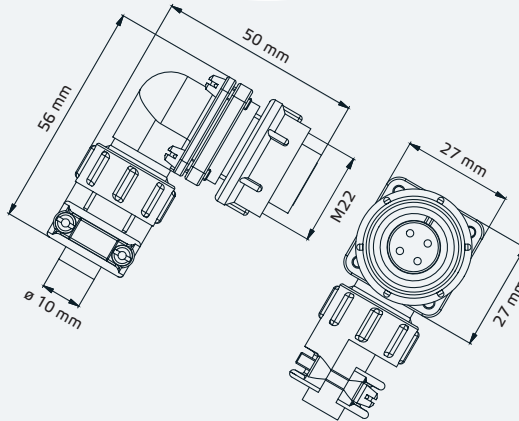


18
ø 18 mm



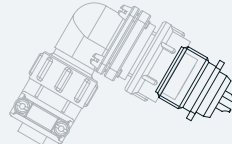
VS18KUN4G1U2

Cable Mounted Angled Plug
with 4 Sockets

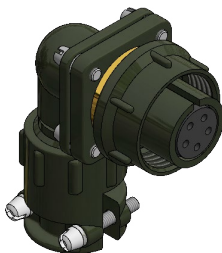


Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	20 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
4 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST18KUN4G1U2

Counterpart

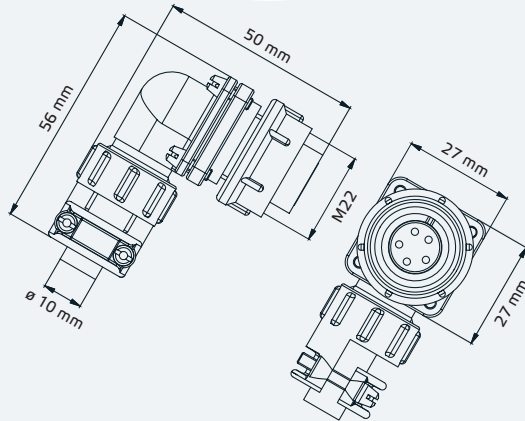


VS18B4S1U2



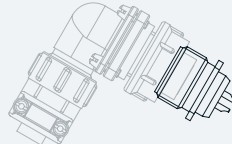
VS18KUN5G1U2

Cable Mounted Angled Plug
with 5 Sockets

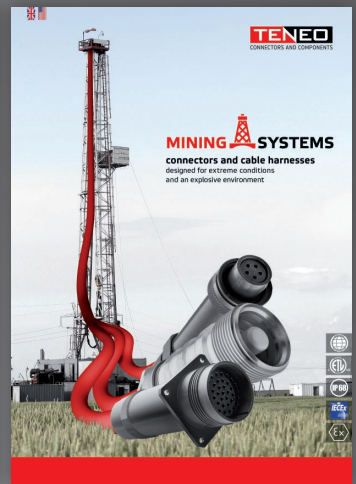


Contact max. I _n	Connector max. I _n	Connector max. U _n
5 A	25 A	115 V
Contact Type & Number	Contact Diameter	Wire Cross Section
5 Sockets	1,5 mm	1 mm ²
Contact Material	Airtight Version	Increased Temp. Version
Silver Plated	No	Yes VST18KUN5G1U2

Counterpart



VS18B5S1U2



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ISO 9001
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of Systems



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