



M58 Size 3 Power Connectors

Features

- Termination cross section up to 50 mm² (165 A)
- Isolation-body with "contact click-in function" to reduce assembly time
- Can accept any back nut that offers a PG 42 threaded connection
- Four point crimping for greater reliability
- High current ratings

Advantages

- Hypertac has experience of about 10 years with high current transmission connectors and is an approved supplier for this connectors by several considerable engine manufacturers
- UL certification available. Contact the factory for relevant part numbers

Markets

Printing machines, paper-making machines, rolling mill drives

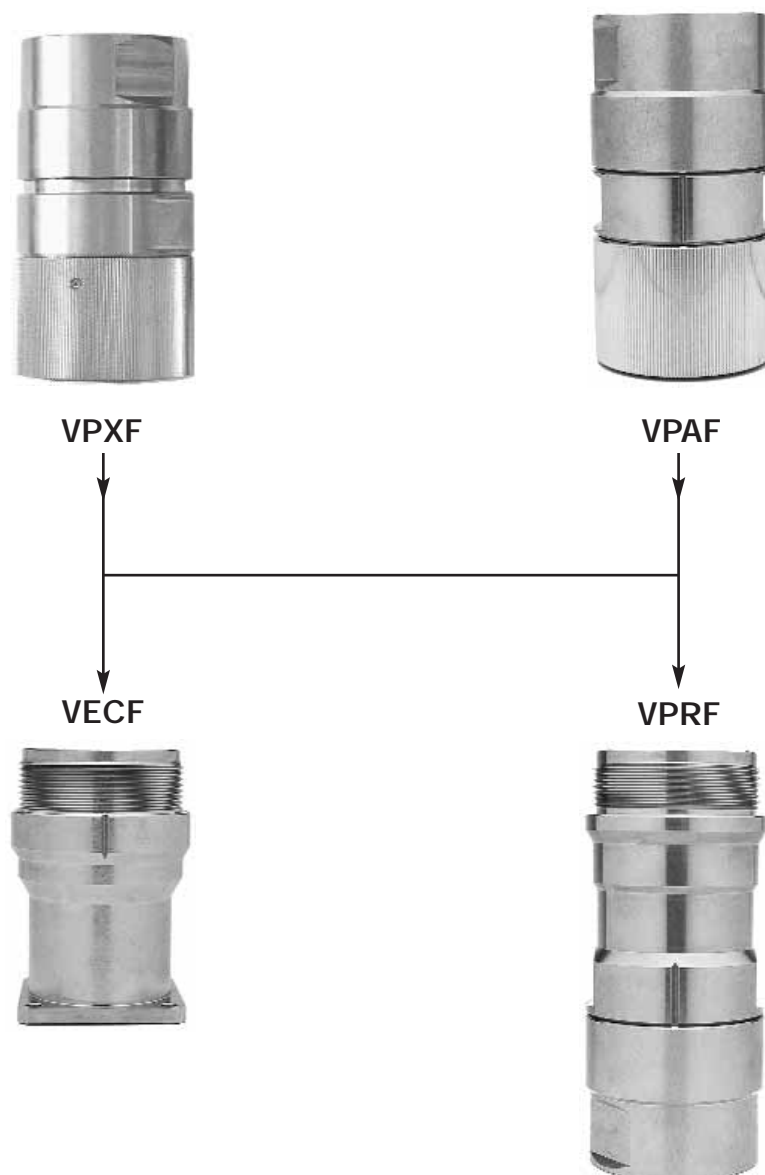
Approvals

- Tested acc. to DIN EN 61984
- UL/CSA
- Shielding corresponding to EMC (EN 50081/82n)

Technical Characteristics

Number of ways:	8way
Contact diameter:	8way (4 x 1,6mm + 4 x 10mm)
Nominal current (VDE) / 20°C:	Ø 1,6mm 15 A Ø 10,0mm 165 A (50mm ²)
Nominal current (UL):	Ø 1,6mm 15 A Ø 10,0mm 100 A
Nominal current (CSA):	Ø 1,6mm 10 A Ø 10,0mm 75 A
Contact resistance:	Ø 1,6mm <3 mΩ Ø 10,0mm 1 mΩ
Connector life cycle	500 mating cycles
Nominal voltage (VDE):	Ø 1,6mm 125 V Ø 10,0mm 630 V
Nominal voltage (UL):	Ø 1,6mm 125 V Ø 10,0mm 600 V
Nominal voltage (CSA):	Ø 1,6mm 125 V Ø 10,0mm 600 V
Operating temperature range	-40°C up to +125°C
Operating temperature range (UL):	-40°C up to +110°C
Storage condition:	-40 °C to +70 °C / humidity 40%
Insulation resistance	10 ¹³ Ωcm
Insulator material	PA
Contacts: a) material; b) plating	a) Cu Zn alloy, CuBe b) gold-plated and silver plated
Shell: a) material, b) plating	a) aluminium, Cu Zn alloy b) chemical nickel-plated
Seals:	FKM, NBR
IP code:	IP 67 mated (with appropriate cable clamp)
Contamination level:	3 mated
Over voltage category:	III
Installation altitude:	up to 2000 m

Connector type overview

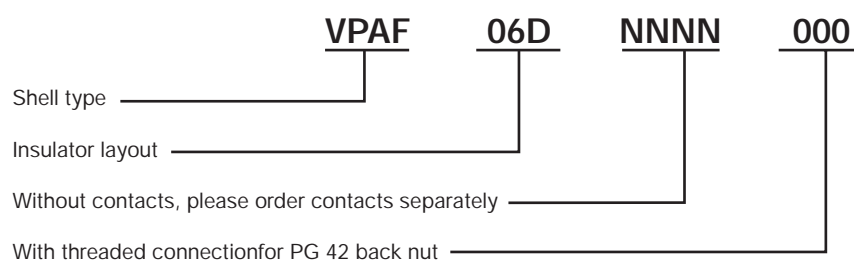
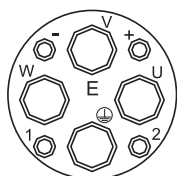


Connector dimensions

TYPE	DESCRIPTION	DRAWING
VECF	Straight receptacle, integrated ground shell connection	
VRAF	Extension with shield connection, ground shell connection and PG 42 threaded connection	
VPAF	Plug with shield connection, ground shell connection and PG 42 threaded connection	
VPXF	Plug with shield connection, ground shell connection, PG 42 threaded connection, incl. coupling ring with screw for vibration protection	

Dimensions are in mm

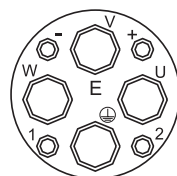
Ordering information guide


 Receptacle 8way
 (4 x 1,6mm + 4 x 10 mm)


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Insulator seen from wired side

Connectors including insulator	Part numbers
Straight receptacle, integrated ground shell connection	VECF08CNNNN000
Contacts <i>please order separately</i>	Part numbers
Crimp pin Ø 1,6 mm, 0,5 – 1,5 mm ² , AWG 20-16	021.370.1020
Crimp pin Ø 10,0 mm, 10 mm ² , AWG 8	021.000427.1045
Crimp pin Ø 10,0 mm, 16 mm ² , AWG 6	021.000428.1045
Crimp pin Ø 10,0 mm, 25 mm ² , AWG 4	021.000425.1045
Crimp pin Ø 10,0 mm, 35 mm ² , AWG 2	021.000426.1045
Crimp pin Ø 10,0 mm, 50 mm ² , AWG 1/0	021.000429.1045
Tools <i>please order separately</i>	Part numbers
Crimp tool Ø 1,6 mm	B151
Crimp tool Ø 10,0 mm	B283
Positioner Ø 1,6 mm	B244
Positioner Ø 10,0 mm	B284

 Extension 8way
 (4 x 1,6mm + 4 x 10 mm)


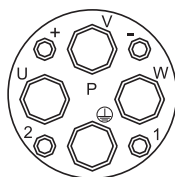
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Insulator seen from wired side

Connectors including insulator and cable clamp	Part numbers
Extension with shield connection, ground shell connection and PG 42 threaded connection	VRAF08CNNNN000
Contacts <i>please order separately</i>	Part numbers
Crimp pin Ø 1,6 mm, 0,5 – 1,5 mm ² , AWG 20-16	021.370.1020
Crimp pin Ø 10,0 mm, 10 mm ² , AWG 8	021.000427.1045
Crimp pin Ø 10,0 mm, 16 mm ² , AWG 6	021.000428.1045
Crimp pin Ø 10,0 mm, 25 mm ² , AWG 4	021.000425.1045
Crimp pin Ø 10,0 mm, 35 mm ² , AWG 2	021.000426.1045
Crimp pin Ø 10,0 mm, 50 mm ² , AWG 1/0	021.000429.1045
Tools <i>please order separately</i>	Part numbers
Crimp tool Ø 1,6 mm	B151
Crimp tool Ø 10,0 mm	B283
Positioner Ø 1,6 mm	B244
Positioner Ø 10,0 mm	B284

Ordering Information

Plug 8way
(4 x 1,6mm + 4 x 10 mm)

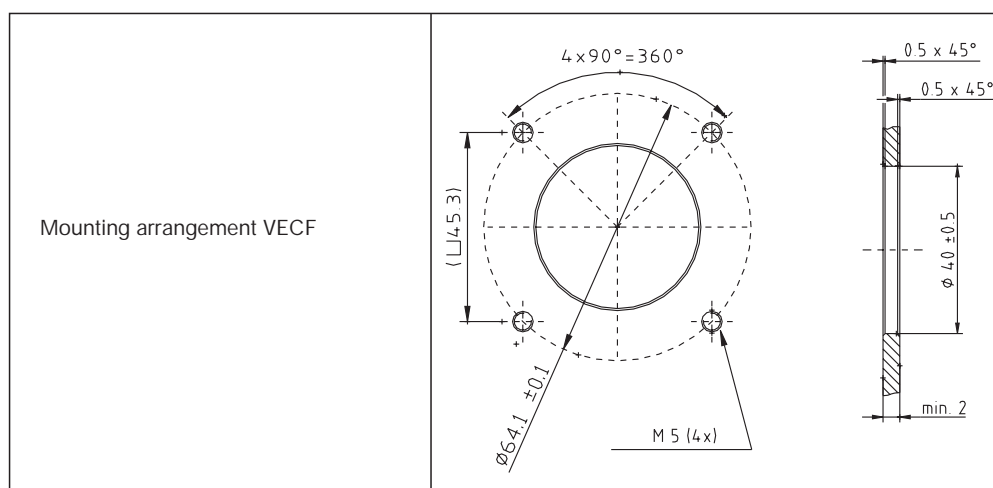


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Insulator seen from wired side





Connectors including insulator and cable clamp	Part numbers
Plug with shield connection, ground shell connection and PG 42 threaded connection	VPAF08DNNNN000
Plug with shield connection, ground shell connection, PG 42 threaded connection PG 42, incl. coupling ring with screw for vibration protection	VPXF08DNNNN000
Contacts <i>please order separately</i>	Part numbers
Crimp socket Ø 1,6 mm, 0,5 – 1,5 mm ² , AWG 20-16	020.122.2000
Crimp socket Ø 10,0 mm, 10 mm ² , AWG 8	090.000023.2000
Crimp socket Ø 10,0 mm, 16 mm ² , AWG 6	090.000024.2000
Crimp socket Ø 10,0 mm, 25 mm ² , AWG 4	090.000021.2000
Crimp socket Ø 10,0 mm, 35 mm ² , AWG 2	090.000022.2000
Crimp socket Ø 10,0 mm, 50 mm ² , AWG 1/0	090.000025.2000
Tools <i>please order separately</i>	Part numbers
Crimp tool Ø 1,6 mm	B151
Crimp tool Ø 10,0 mm	B283
Positioner Ø 1,6 mm	B154
Positioner Ø 10,0 mm	B284

Mounting styles / dimensions



Dimensions are in mm

Accessories

Crim tools	Positioners
 B151	 B244/B154
 B283	 B284

Other accessories

 Thread protection cap	Part number: 031.168.1000
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