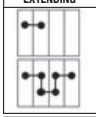
Screw Clamp Connection Pluggable Feed-Through Terminal Blocks

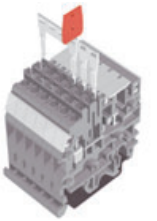
With special connections

with UL94V-0 polyamide insulating body

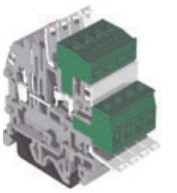
- for 5.08 mm pitch female connectors
- double possibility of PTC – easy bridge multi-pole connection
- universal mounting onto both PR/DIN and PR/3 type rails - according to IEC 60715 Std., "G32" and "TH/35" types
- available in grey RAL 7042 and beige RAL 1001 colours

PTC jumper configurations					
SINGLE OR PARALLEL EXTENDING	POLE SKIPPING	ADJACENT WITHOUT BARRIER	ADJACENT WITH BARRIER	STAGGERED MODE	PARALLEL SKIPPING
					
Insulation voltage in the above configurations (V)					
320	320		320	320	320

Detail with PTC jumpers and barriers



Detail with 5.08 mm female connectors and lug protection covers in up position



(*) current on the PCB connector pin

*The **/GR** tag indicates the grey colour version.*

grey version	**VPC.2/GR** Cat. No. **VP300GR**
beige version	**VPC.2** Cat. No. **VP300**
(Ex)i version	**VPC.2 (Ex)i** Cat. No. **VP310**
TECHNICAL CHARACTERISTICS	
function / type	1 screw connection and 2 pins for female connectors
rated cross-section (mm²)	2,5
connecting capacity	
flexible (mm²)	0,2 ÷ 4
rigid (mm²)	0,2 ÷ 4
max. flexible with ferrule (mm²)-ferrule type	2,5 - WP25/14
rated voltage / rated current / gauge conf. to IEC 60947-7-1	320 V / 24-12 (*) A / A3
rated voltage / rated current / AWG / tightening torque value UL	600 V / 20 ÷ 14 AWG / 15 A / 5,5 lb.in.
(Ex e) rated voltage ⊏⊐ / ⊐⊏ (V)	-
rated impulse withstand voltage / pollution degree	4 KV / 3
insulation stripping length (mm)	9 (screw connection)
tightening torque value (test / max) (Nm)	0,4 / 0,8 (screw connection)
height / width / thickness ⊐⊏ TH/35 7,5 mm	51 / 44 / 5,08
height / width / thickness ⊏⊐ TH/35 15 mm	59 / 44 / 5,08
height / width / thickness ⊏⊐ G32	55 / 44 / 5,08

APPROVALS

Female connectors, 90° - 5,08 mm pitch and with a number of poles from 2 to 16, are available. The connector can be easily inserted until it reaches its blocking position, guaranteeing optimum connection onto the male contact. In such a position the connector it is hooked onto the insulating body of the terminal block by means of a tooth, of which it is equipped.

VPC/F02 - 2 poles	Cat. No. **VP902**	
VPC/F03 - 3 poles	Cat. No. **VP903**	
VPC/F04 - 4 poles	Cat. No. **VP904**	
VPC/F05 - 5 poles	Cat. No. **VP905**	
VPC/F06 - 6 poles	Cat. No. **VP906**	
VPC/F07 - 7 poles	Cat. No. **VP907**	
VPC/F08 - 8 poles	Cat. No. **VP908**	
VPC/F09 - 9 poles	Cat. No. **VP909**	
VPC/F10 -10 poles	Cat. No. **VP910**	
VPC/F11 -11 poles	Cat. No. **VP911**	
VPC/F12 -12 poles	Cat. No. **VP912**	
VPC/F13 -13 poles	Cat. No. **VP913**	
VPC/F14 -14 poles	Cat. No. **VP914**	
VPC/F15 -15 poles	Cat. No. **VP915**	
VPC/F16 -16 poles	Cat. No. **VP916**	

VPC/PTF

flange for the securing of female connectors provided with locking screws onto the terminal board

DF/VPC

reduced pitch end section for the separation of different groups

For the fixing of the conductor in an even more secure way, it is possible to use connectors provided with locking screws, located on the sides of the connector itself. In this case it is necessary to insert on to both sides of the assembled VPC.2 terminal blocks a **VPC/PTF** (Cat. No. VP103) flange. In the case that an assembly composed in such a way has a flange with external connecting pins, it is necessary to add a **VPC/PT** (Cat. No. VP101) end section, or to remove the external pins with a cutter. For safety reasons, the connectors must not be handled under load. The use of **DF/VPC** (Cat. No. DU015) barrier, for the physical separation of the different groups of terminal blocks, does not avoid the possibility to perform cross-connections.

The terminal block is available also in the version equipped with signal circuit (VPC.2/L024). In this case a common bar (dimension 7 x 1 x 250 mm), for the common return of a LED (red colour - 24 V), must be inserted in the appropriate housing on the side of the group of adjoining terminal blocks and connected by means of a feeding terminal block - VPC.2(Ex)i/D (Cat. No. VPC200). The **VPC.2(Ex)i/D** feeding terminal block is a version of terminal block type VPC.2(Ex)i, equipped with a type 1N4007 diode.

A transparent cover in order to prevent accidental contacts on the pins is supplied as an accessory (**VPC/VT** - Cat. No. VP102) in 10-pole bars; it can be easily separated into the desired number of poles. The cover is inserted by clip fixing in the appropriate housing provided in the insulating body of the terminal block; the insertion point acts as a fulcrum for the rotation of the protection itself from the closed position (guaranteed by a clip) to the open position (for the insertion of the connector). It is manufactured in transparent material in order to ensure visibility of both the type of connection (in closed position) and the LED, in opened position, once the connector is inserted.

ACCESSORIES		**Type**	**Cat. No.**
End sections	grey beige blue	**VPC/PT/GR** **VPC/PT** **VPC/PT (Ex)i**	VP101GR VP101 VP201
Permanent cross connection (intrinsically IPXXB protected once mounted)		**PTC/2/02** poles **PTC/2/03** poles **PTC/2/05** poles **PTC/2/10** poles **PTC/2/00** (50 poles) **PTC/SP**	PTC0202 PTC0203 PTC0205 PTC0210 PTC0200 PTC0990
Cross-connection identification strip (100 mm)	green	-	
Switchable cross connection		**DFM/300**	DF300
Diaframma separatore ponti		-	
Shunting screw and sleeve		**DFU/5**	DU05
Coloured partition	red, green, white	**DF/VPC/GR**	DU02SGR
Hollow partition	grey beige	**DF/VPC**	DU02S
Test plug socket		-	
Test plug		-	
Numbering strip		**CNU/8/51**	NU0851
Cover for cable lugs		**VPC/VT**	VP102
Flangia		**VPC/PTF**	VP303
Marking tag	printed or blank	**CNU/8/51**	NU0851
End bracket		**BTU** for PR/DIN and PR/3 **BT/DIN/PO** for PR/DIN only **BT/3-BTO** for PR/3 only	BT005 BT001 BT003-BT007
Mounting rail according to IEC 60715 Std.	⊏⊐ ⊐⊏	**PR/DIN/AC** of steel **PR/DIN/AS** same with slots **PR/DIN/AL** of aluminium **PR/3/AC** of steel **PR/3/AS** same with slots	PR001 PR004 PR002 PR003 PR005