

# TERMINALS FOR INITIATORS & ACTUATORS TERMINALS FOR INITIATORS & ACTUATORS



ZIK·ZAK ZIK·ZAK ZIK·ZAK ZIK·ZAK ZIK·ZA  
ZIK·ZAK  
**ZIK·ZAK**

## PRODUCT INFORMATION

When good enough just isn't good enough

**Weidmüller** 

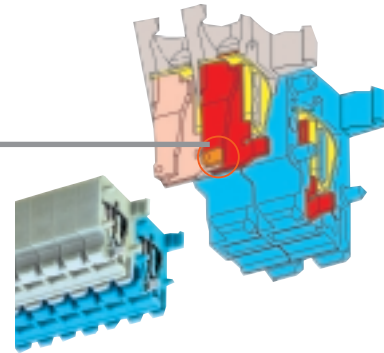
# ZVL 1.5

## The heart of the modular terminal

### The integrated cross-connection

Integrated cross-connections in each individual element are unique to this snap-connect terminal;

On the one side there is the socket contact and on the other the pins. They reliably connect together when the elements are clipped together. So there is no need for time-consuming assembly of cross-connections. The modular stripwise construction lets you build distribution strips of almost unlimited length.



### Tension clamp from the Z series

Front wiring

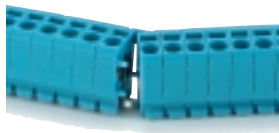
- best access and unrestricted view
- low pressure required to move the spring
- maintenance-free



### Easy to assemble

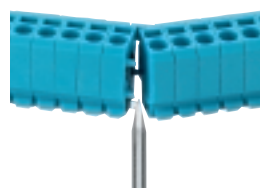
- easy to clip together and to dismantle
- variable number of connections
- assembly errors are a thing of the past

simply click together . . .

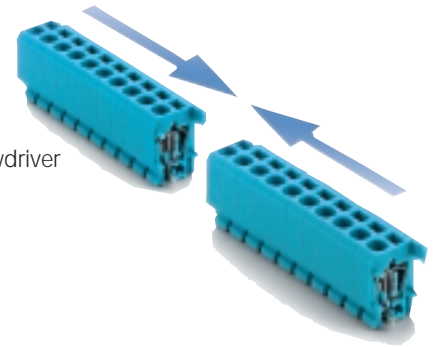


. . . by hand

easy to dismantle . . .



. . . or using a screwdriver

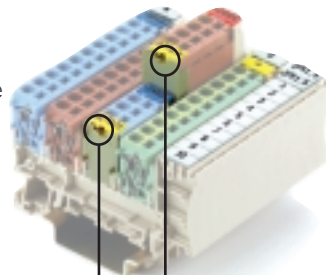
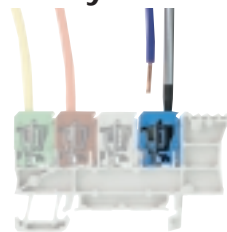


# ZPV 1.5

## The potential distribution system

### Easy, money-saving installation

- ZPV 1.5 is modular. You decide on site the number of connections you need.
- The blocks can be modified in seconds
- ZPV 1.5 with 4 elements bays is the basis of the system
- No electrical connection between the individual rows
- ZPV 1.5 fits into the smallest enclosure



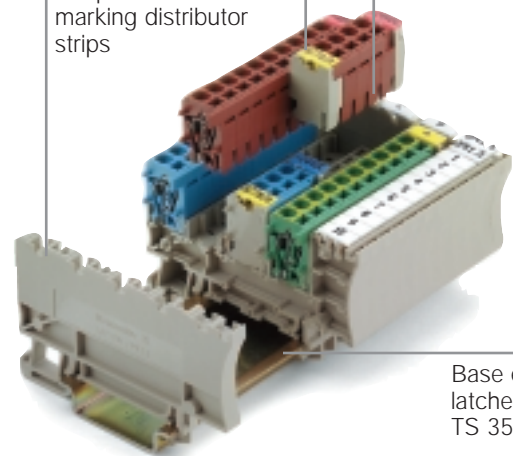
BZT 1.5 ZA with lugs

BZT 1.5 o.ZA without lugs

Marker carrier

Cross-connections already integrated

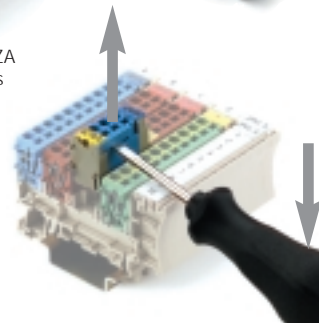
Endplate also for marking distributor strips



Base elements latches onto a TS 35 rail

### Comfortable marking and partitioning

- Markers go directly onto the base element or on marker carriers.
- Marker carriers with and without lugs.
- Easy to read marking by rows possible
- Electrical separation along a row using marker carriers.



### Easy to dismantle

Levering off the distribution strip with a screwdriver releases the latch.

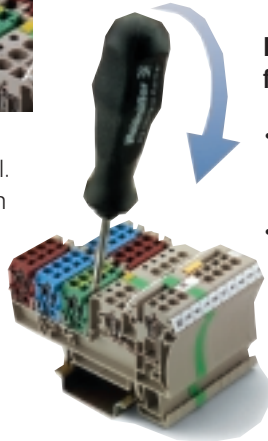
# ZIK•ZAK

The modular solution ...

## Easy to assemble and quick to dismantle



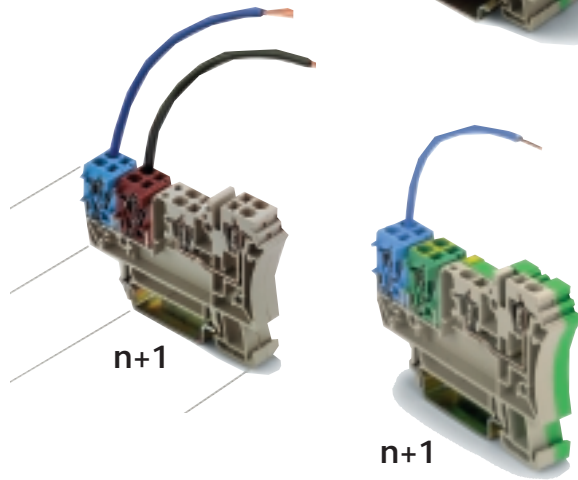
- The ZVL 1.5 distributor strips are simply latched into the base element – that's all.
- Unbelievably easy to dismantled, even in wired-up state – just lever out the distributor strip with a screwdriver.



## The ZIK•ZAK module system brings benefits long overdue

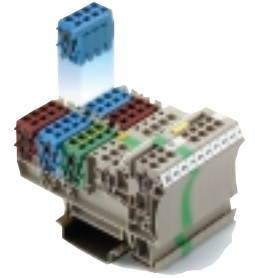
### Easy feed for initiators ...

- Potential is fed through 1 additional standard base element =>  $n + 1$  base element or distributor elements ( $n$  = number of initiators)
- Automatic distribution of plus and minus via the built-in cross-connection in the distributor strips

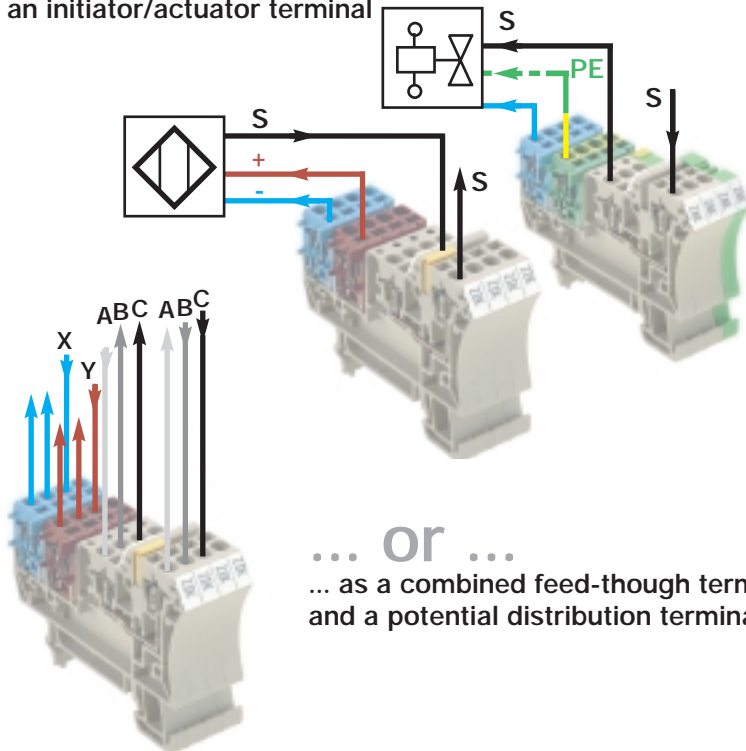


### ... and actuators

- Potential is fed through 1 additional PE base element =>  $n + 1$  base element or distributor elements ( $n$  = number of actuators)
- Automatic distribution of plus and minus via the built-in cross-connection in the distributor strips
- The PE base element is put at the left-hand side of the terminal block for construction reasons.
- Only 1 PE base element is needed

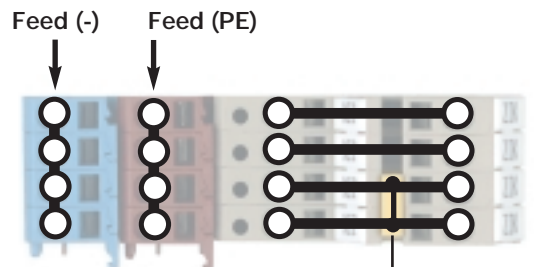
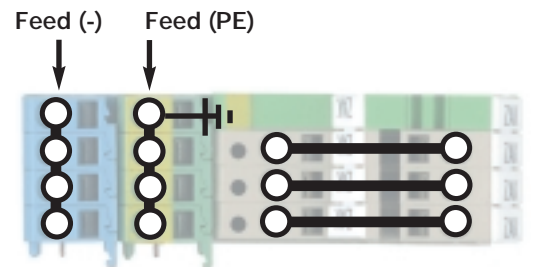


## The modular solution as ... an initiator/actuator terminal



... or ...

... as a combined feed-through terminal (A, B, C) and a potential distribution terminal (X, Y) ...



ZQV 2.5/2

?

... or ...

The ZIK•ZAK modular distribution system takes you to a new world of perfect wiring.

# ZPV 1.5 Variable-pole potential distributors

## ZPV 1.5 Terminal base



## ZVL 1.5 Distributor strips



### Dimensions/Approvals

Width/length/height (mm) with TS 35 x 7.5 

Width/length/height (mm)

Insulation stripping length/clamping screw/bit size

### Rated data VDE 0611 Part 1/8.92 / IEC 60 947-7-1

Rated voltage/current/cross-section

Rated peak voltage/contamination level

### Further technical data

Clampable conductor mm<sup>2</sup>

Solid H07V-U mm<sup>2</sup>

Stranded H07V-R mm<sup>2</sup>

Flexible H07V-K and ferrule according to DIN 46 228/1 mm<sup>2</sup>

Flexible H07V-K and ferrule with plastic collar mm<sup>2</sup>

Plug gauge according to IEC 60 947-1 Size

Continuous current of terminal block for conductor size

### UL/CSA rated data

Voltage/current/conductor size UL

Voltage/current/conductor size CSA

### Ordering data

**Standard version** Type

Beige Wemid

Blue Wemid

Brown Wemid

Green Wemid

**Special version** Without pin and socket, beige

Without pin brown

Without pin blue

Without pin beige Wemid

**Cross-connection** For ZVL 1.5

### End plates/Dividers



Wemid

### Marker carriers



BZT ZVL1.5 ZA BZT ZVL1.5 o.ZA

### Reduction collar<sup>3)</sup> Colour

ZRH for conductor 0.13...0.2 mm<sup>2</sup>  White

ZRH for conductor 0.25...0.5 mm<sup>2</sup>  Grey

ZRH for conductor 0.75...1 mm<sup>2</sup>  Dark grey

### Screwdriver

SD to DIN 5264 A

### Marking tags

For terminal base element ZPV 1.5

Marker carriers BZT ZVL 1.5

and for endplate ZAP/TW ZPV 1.5

Blank

Blank

Blank

Blank

### UL/CSA Approvals

5,08/68/38

250 V/17,5 A/1,5 mm<sup>2</sup>

4 kV/3

300 V/10 A/ 26...14 AWG

300 V/ 10 A/ 26...14 AWG

### Ordering data

Type Cat. No. Qty.

ZPV 1.5 **1676630000** 100

### Ordering data

Type Cat. No. Qty.

ZAP/TW ZPV1,5 **1674650000** 50

ZRH 1.5N /1 **1632140000** 100

ZRH 1.5N /2 **1632130000** 100

ZRH 1.5N /3 **1632120000** 100

ZGB15 **1636530000** 20

ZGB30 **1611930000** 20

DEK 5 see Accessories

ZS 10/5 **1610000000** 480

WS 8/5 **1640740000** 720

WS 10/5 **1675000000** 720

WS 12/5 **1609960000** 720

5,08/12.9/17.5

8 mm/-/3,5 x 0,6

250 V/17,5 A/1,5 mm<sup>2</sup>

4 kV/3

0,08 ... 2,5

0,5 ... 2,5

0,5 ... 2,5

0,5 ... 1,5

0,5 ... 1,5

A 1

24 A / 2,5 mm<sup>2</sup>

300 V/10 A/ 26...14 AWG

300 V/10 A/ 26...14 AWG

### Ordering data

Type Cat. No. Qty.

ZVL 1.5 **1649300000** 100<sup>2)</sup>

ZVL 1.5 **1650360000** 100<sup>2)</sup>

ZVL 1.5 **1650370000** 100<sup>2)</sup>

ZVL 1.5 **1697820000** 100<sup>2)</sup>

ZVL 1.5 **1711930000** 100

ZVL 1.5 **1714700000** 20

ZVL 1.5 **1714690000** 20

ZVL 1.5 **1714680000** 20

ZVL 1.5 **1678490000** 20

ZAP/TW ZPV 1,5 **1674650000** 50

BZT ZVL 1,5 o.ZA **1676620000** 100

BZT ZVL 1,5 ZA **1676610000** 100

ZRH 1.5N /1 **1632140000** 100

ZRH 1.5N /2 **1632130000** 100

ZRH 1.5N /3 **1632120000** 100

SD 0,6 x 3,5 **9008330000** 1

<sup>2)</sup> Preassembled in blocks of 20  
<sup>3)</sup> Each standard pack contains 100 x 10-pole strips

# ZIK-ZAK Initiator-/actuator terminal blocks

## ZIA 1.5/3L... Base element 3-way



## ZIA 1.5/4L... Base element 4-way



## ZVL 1.5 Distributor strips



## ZIA 1.5... Block versions

### Dimensions/Approvals

Width/length/height (mm) mit TS 35 x 7.5

Width/length/height (mm)

Insulation stripping length/clamping screw/bit size

### Rated data VDE 0611 Part 1/8.92/IEC 60 947-7-1

Rated voltage/current/cross-section

Rated voltage/current/cross-section (with LED)

Rated peak voltage/contamination level

### Further technical data

Clampable conductor

Solid H07V-U

Stranded H07V-R

Flexible H07V-K and ferrule according to DIN 46 228/1

Flexible H07V-K and ferrule with plastic collar

Plug gauge according to IEC 60 947-1

Continuous current of terminal block for conductor size

### UL/CSA rated data

Voltage/current/conductor size

Voltage/current/conductor size

### Ordering data

Terminal base 3-way

Terminal base 3-way 10-pole

Terminal base 3-way with LED **for PNP and NPN<sup>1)</sup>**

PE-terminal base 3-way

Terminal base 4-way

Terminal base 4-way 10-pole

Terminal base 4-way with LED **for PNP and NPN<sup>1)</sup>**

PE-terminal base 4-way

Beige Wemid

Brown Wemid

Blue Wemid

Green/yellow Wemid

For 8 initiators

For 8 actuators

For 16 initiators

For 16 actuators

### 4-way types:

For 8 initiators with PE

For 16 initiators with PE

### End plate

3-way

4-way



### Cross-connection

For signal level

ZQV 2.5



2-pole

3-pole

4-pole

5-pole

6-pole

7-pole

8-pole

9-pole

10-pole

50-pole

### Reduction collar<sup>3)</sup>

ZRH for conductor 0.13...0.2 mm<sup>2</sup>

ZRH for conductor 0.25...0.5 mm<sup>2</sup>

ZRH for conductor 0.75...1 mm<sup>2</sup>



### Colour

White

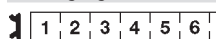
Grey

Dark grey

### Screwdriver

SD to DIN 5264 A

### Marking tags



### Print

FW/FS/...



5,08/68/45,8

8 mm/-/3,5 x 0,6

250 V/17,5 A/1,5 mm<sup>2</sup>

5...30 V/17,5 A/1,5 mm<sup>2</sup>

4 kV/3

0,08...2,5

0,5...2,5

0,5...2,5

0,5...1,5

0,5...1,5

A 1

24 A / 2,5 mm<sup>2</sup>

300 V/10 A/26...14 AWG

300 V/10 A/26...14 AWG

Cat. No. Qty.

ZIA1.5/3L-1 S **1651980000** 100

ZIA1.5/3L-1S/10 **1692610000** 10

ZIA1.5/3L-1S/LD **1651990000** 50

ZIA1.5/3L-PE **1652000000** 20



5,08/81/45,8

8 mm/-/3,5 x 0,6

250 V/17,5 A/1,5 mm<sup>2</sup>

5...30 V/17,5 A/1,5 mm<sup>2</sup>

4 kV/3

0,08...2,5

0,5...2,5

0,5...2,5

0,5...1,5

0,5...1,5

A 1

24 A / 2,5 mm<sup>2</sup>

300 V/10 A/26...14 AWG

300 V/10 A/26...14 AWG

Cat. No. Qty.

ZIA1.5/4L-1 S **1652010000** 100

ZIA1.5/4L-1S/10 **1692620000** 5

ZIA1.5/4L-1S/LD **1652020000** 50

ZIA1.5/4L-PE **1652030000** 20



5,08/12,9/17,5

8 mm/-/3,5 x 0,6

250 V/17,5 A/1,5 mm<sup>2</sup>

5...30 V/17,5 A/1,5 mm<sup>2</sup>

4 kV/3

0,08...2,5

0,5...2,5

0,5...2,5

0,5...1,5

0,5...1,5

A 1

24 A / 2,5 mm<sup>2</sup>

300 V/10 A/26...14 AWG

300 V/10 A/26...14 AWG

Cat. No. Qty.

ZVL1.5 **1649300000** 100<sup>2)</sup>

ZVL1.5 BR **1650370000** 100<sup>2)</sup>

ZVL1.5 BL **1650360000** 100<sup>2)</sup>

ZVL1.5 PE **1651970000** 100<sup>2)</sup>



5,08/68/45,8

8 mm/-/3,5 x 0,6

250 V/17,5 A/1,5 mm<sup>2</sup>

4 kV/3

0,08...2,5

0,5...2,5

0,5...2,5

0,5...1,5

0,5...1,5

A 1

24 A / 2,5 mm<sup>2</sup>

300 V/10 A/26...14 AWG

300 V/10 A/26...14 AWG

Cat. No. Qty.

ZIA1.5/3L-1S/8/KB **1692630000** 5

ZIA1.5/3L-PE/8/KB **1692650000** 5

ZIA1.5/3L-1S/16/KB **1692640000** 2

ZIA1.5/3L-PE/16/KB **1692660000** 2

ZIA1.5/4L-PE/8/KB **1692670000** 5

ZIA1.5/4L-PE/16/KB **1692680000** 2

ZIA1.5/3L-1S/8/KB **1692630000** 5

ZIA1.5/3L-PE/8/KB **1692650000** 5

ZIA1.5/3L-1S/16/KB **1692640000** 2

ZIA1.5/3L-PE/16/KB **1692660000** 2

ZIA1.5/4L-PE/8/KB **1692670000** 5

ZIA1.5/4L-PE/16/KB **1692680000** 2

ZIA1.5/3L-1S/8/KB **1692630000** 5

ZIA1.5/3L-PE/8/KB **1692650000** 5

ZIA1.5/3L-1S/16/KB **1692640000** 2

ZIA1.5/3L-PE/16/KB **1692660000** 2

ZIA1.5/4L-PE/8/KB **1692670000** 5

ZIA1.5/4L-PE/16/KB **1692680000** 2

Type Cat. No. Qty.

ZAP/TWZIA 1.5/3L **1649540000** 50

### Type

ZAP/TWZIA 1.5/4 L

**1649550000** 50

### Type

ZVL1.5

ZVL1.5 BR

ZVL1.5 BL

ZVL1.5 PE

### Type

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

ZIA1.5/4L-PE/16/KB

ZIA1.5/3L-1S/8/KB

ZIA1.5/3L-PE/8/KB

ZIA1.5/3L-1S/16/KB

ZIA1.5/3L-PE/16/KB

ZIA1.5/4L-PE/8/KB

			3-Way Initiator		3-Way Actuator		3-Way Initiator with PE	
<b>Distributor strip</b>			=	=	=	=	=	=
ZVL1.5 BR								
<b>1650370000</b>	Qty.=100*							
			+	+				+
ZVL1.5 BL								
<b>1650360000</b>	Qty.=100*							
					+	+		+
ZVL1.5 PE								
<b>1651970000</b>	Qty.=100*							
<b>Base element</b>			+	+				
ZIA 1.5/3L-1S	3-Way							
<b>1651980000</b>	Qty.=100							
			alternatively		alternatively			
ZIA 1.5/3L-1S/LD	3-Way with LED							
<b>1651990000</b>	Qty.=50							
				+		+		+
ZIA 1.5/4L-1S	4-Way							
<b>1652010000</b>	Qty.=100							
				alternatively		alternatively		alternatively
ZIA 1.5/4L-1S/LD	4-Way with LED							
<b>1652020000</b>	Qty.=50							
					as required			
ZIA 1.5/3L-PE	3-Way							
<b>1652000000</b>	Qty.=20							
						as required		as required
ZIA 1.5/4L-PE	4-Way							
<b>1652030000</b>	Qty.=20							
<b>Endplate</b>			+	+				
ZAP/TW ZIA1.5/3L	3-Way							
<b>1649540000</b>	Qty.=50							
				+		+		+
ZAP/TW ZIA1.5/4L	4-Way							
<b>1649550000</b>	Qty.=50							
<b>Cross-connection for signal level</b>								
ZQV2.5/2	<b>1608860000</b>	Qty.=60						
ZQV2.5/3	<b>1608870000</b>	Qty.=60						
ZQV2.5/4	<b>1608880000</b>	Qty.=60						
ZQV2.5/5	<b>1608890000</b>	Qty.=20						
ZQV2.5/6	<b>1608900000</b>	Qty.=20						
ZQV2.5/7	<b>1608910000</b>	Qty.=20						
ZQV2.5/8	<b>1608920000</b>	Qty.=20						
ZQV2.5/9	<b>1608930000</b>	Qty.=20						
ZQV2.5/10	<b>1608940000</b>	Qty.=20						

Whatever way you look at it,  
you'll not find anything  
so compact.

\*) pre-assembled in blocks of 20

## Worldwide activities

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