

## 10

## Connectors and fasteners

For rectangular, square, and round tubes. Plug-in connectors for tubes.

**JE 1**

Page: 2

**JRE**

Page: 3

**VA1**

Page: 5

**VA2**

Page: 6

**VB1**

Page: 7

**VB2**

Page: 8

**VC1**

Page: 9

**VC2**

Page: 10

**VG1**

Page: 11

**VG2**

Page: 12

**VG3**

Page: 13

**VGQ**

Page: 14

**VGR**

Page: 15

**VK1**

Page: 16

**VK2**

Page: 17

**VS1**

Page: 18

**VS2**

Page: 19

**VT1**

Page: 20

**VT2**

Page: 21

**VW1**

Page: 22

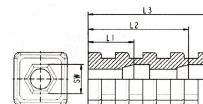
**VW2**

Page: 23

## Expander connectors for square tubes

JE 1

Application: for square tubes  
Material: polyamide  
Standard-Colour: black



Order No.	Tube dimension	With / for nut	SW nut	Nut mounted on position	Colour	PU*	MOQ**
K20181580001000	18x18x1,5	M8	13	ohne/without	black	2000	-
K20201560001000	20x20x1,5	M6	10	ohne/without	black	1900	-
K20201580001000	20x20x1,5	M8	13	ohne/without	black	2000	-
K20202080001000	20x20x2	M8	13	ohne/without	black	2000	-
K20221560001000	22x22x1,5	M6	10	ohne/without	black	1500	-
K20221580001000	22x22x1,5	M8	13	ohne/without	black	1750	-
K21251580001000	25x25x1,5	M8	13	L1	black	700	-
K20251510001000	25x25x1,5	M10	17	ohne/without	black	1250	-
K20252080001000	25x25x2	M8	13	ohne/without	black	1250	-
K20301510001000	30x30x1,5	M10	17	ohne/without	black	850	-
K20302080001000	30x30x2	M8	13	ohne/without	black	1000	-
K20302010001000	30x30x2	M10	17	ohne/without	black	900	-
K20352010001000	35x35x2	M10	17	ohne/without	black	600	-
K20402010001000	40x40x2	M10	17	ohne/without	black	450	-
K20452010001000	45x45x1,5	M10	17	ohne/without	black	350	-

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\*\* MOQ: Parts with MOQ, set-up costs may apply.



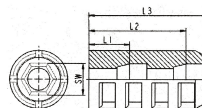
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## Expander connectors for round tubes

Application: for round tubes  
Additional Info: Attention! Please consider that not all glides have the same clamping ribs form  
Material: polyamide  
Standard-Colour: black

JRE



Order No.	Tube outside Ø	With/for nut	SW nut	Nut mounted on position	Colour	PU*	MOQ**
K10161060001000	16x1	M6	10	ohne/without	black	3500	-
K10191560001000	19x1,5	M6	10	ohne/without	black	3000	-
K10201080001000	20x1	M8	13	ohne/without	black	2000	-
K10201560001000	20x1,5	M6	10	ohne/without	black	2500	-
K11201560001000	20x1,5	M6	10	L1	black	1000	-
K10201580001000	20x1,5	M8	13	ohne/without	black	2500	-
K10202080001000	20x2	M8	13	ohne/without	black	3000	-
K10221080001000	22x1	M8	13	ohne/without	black	2000	-
K10221560001000	22x1,5	M6	10	ohne/without	black	2000	-
K10221580001000	22x1,5	M8	13	ohne/without	black	2000	4000
K11221580001000	22x1,5	M8	13	L1	black	1000	3000
K10251560001000	25x1,5	M6	10	ohne/without	black	1500	-
K11251560001000	25x1,5	M6	10	L1	black	750	-
K10251580001000	25x1,5	M8	13	ohne/without	black	1500	-
K11251580001000	25x1,5	M8	13	L1	black	750	-
K10281560001000	28x1,5	M6	10	ohne/without	black	1100	-
K10281580001000	28x1,5	M8	13	ohne/without	black	1250	-
K10282080001000	28x2	M8	13	ohne/without	black	1400	-
K10301580001000	30x1,5	M8	13	ohne/without	black	1100	-
K10301510001000	30x1,5	M8	17	ohne/without	black	1250	-
K10302080001000	30x2	M8	13	ohne/without	black	1250	-
K10302010001000	30x2	M10	17	ohne/without	black	1250	-
K10321260001000	32x1,2	M6	10	ohne/without	black	800	-
K10321510001000	32x1,5	M10	17	ohne/without	black	1000	-
K11321510001000	32x1,5	M10	17	L1	black	500	-
K10321060001000	32x2	M6	10	ohne/without	black	850	-
K10322010001000	32x2	M10	17	ohne/without	black	1000	-
K10322510001000	32x2,5	M10	17	ohne/without	black	1000	-
K10351560001000	35x1,5	M6	10	ohne/without	black	700	-
K10351510001000	35x1,5	M10	17	ohne/without	black	750	-
K10352010001000	35x2	M10	17	ohne/without	black	900	-

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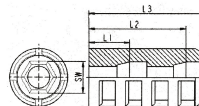
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## Expander connectors for round tubes

Application: for round tubes  
Material: polyamide  
Standard-Colour: black

JRE



Order No.	Tube outside Ø	With/for nut	SW nut	Nut mounted on position	Colour	PU*	MOQ**
K10352560001000	35x2,5	M6	10	ohne/without	black	900	-
K10402010001000	40x2	M10	17	ohne/without	black	500	-
K11402010001000	40x2	M10	17	L1	black	300	-
K10402560001000	40x2,5	M6	10	ohne/without	black	550	-
K10421510001000	42x1,5	M10	17	ohne/without	black	550	-
K10422010001000	42x2	M10	17	ohne/without	black	550	-
K10452010001000	45x2	M10	17	ohne/without	black	450	-
K10601610001000	60x1,6	M10	17	ohne/without	black	250	-
K10602080001000	60x2	M8	13	ohne/without	black	250	-

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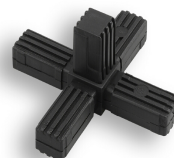
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## Plug-in connectors for square tubes, cross with outlet

VA1

Application: for square tubes  
Additional Info: for square tubes, cross with outlet, half-shells suitable for arming with steel cores  
Material: polyamide  
Standard-Colour: black



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D5V20K0001000	20 x 20 x 1,5	36	black	50	100
K3D5V25K0001000	25 x 25 x 1,5	54	black	50	100
K3D5V30K0001000	30 x 30 x 2,0	47	black	50	100

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## Plug-in connectors for square tubes, cross with outlet

VA2

Application: for square tubes  
Additional Info: for square tubes, cross with outlet, one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D5V20MKG1157000	20 x 20 x 1,5	30	grey	200	200

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## Plug-in connectors for square tubes - angle with outlet

VB1

Application: for square tubes  
Additional Info: for square tubes, angle with outlet, half-shells suitable for arming with steel cores  
Material: polyamide  
Standard-Colour: black



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D3V20K0001000	20 x 20 x 1,5	36	black	300	300
K3D3V25K0001000	25 x 25 x 1,5	52	black	100	100
K3D3V30K0001000	30 x 30 x 2,0	47	black	100	100

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## Plug-in connectors for square tubes - angle with outlet

VB2

Application: for square tubes  
Additional Info: for square tubes, angle with outlet, one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D3V20MKGf1157000	20 x 20 x 1,5	30	grey	350	350
K3D3V25X2MKGf1157000	25 x 25 x 2,0	40	grey	170	170

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## Plug-in connectors for square tubes, T-piece with outlet

VC1

Application: for square tubes  
Additional Info: for square tubes, T-pieces with outlet,  
half-shells suitable for arming with steel  
cores  
Material: polyamide  
Standard-Colour: black



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D4V20K0001000	20 x 20 x 1,5	36	black	200	200
K3D4V25K0001000	25 x 25 x 1,5	52	black	75	75
K3D4V30K0001000	30 x 30 x 2,0	47	black	75	75

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## Plug-in connectors for square tubes, T-piece with outlet

VC2

Application: for square tubes  
Additional Info: for square tubes, T-pieces with outlet,  
one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D4V20MKGf1157000	20 x 20 x 1,5	30	grey	250	250
K3D4V25X2MKGf1157000	25 x 25 x 2,0	40	grey	120	120

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## Plug-in connectors for square tubes, joint

**VG1**

Application: for square tubes  
 Additional Info: for square tubes, link  
 Material: polyamide  
 Standard-Colour: black



Order No.	For tube	Pin length	Note	Angle	Colour	PU*	MOQ**
K2D2V20KGL1800001000	20 x 20 x 1,5	35	-	0°-220°	black	200	200
K2D2V25KGL0001000	25 x 25 x 1,5	38	-	45°-195°	black	150	150
K2D2V25KGL1800001000	25 x 25 x 1,5	39	-	0°-190°	black	100	100
K2D2V25KGLOK0001000	25 x 25 x 1,5	50	o. K.	60°-300°	black	200	200
K2D2V30KGL0001000	30 x 30 x 2,0	41	-	45°-200°	black	100	100

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## Plug-in connectors with link for square tubes

VG2

Application: for square tubes  
Additional Info: for square tubes, link, one-piece  
Material: Polyamide  
Standard-Colour: black




	for tube	Pin length	Note	Angel	Colour	PU*	MOQ**
K3D3V20KGL1800001000	20 x 20 x 1,5	42	-	0°-190°	black	100	100
K3D3V25KGL0001000	25 x 25 x 1,5	43	-	45°-195°	black	100	100
K3D3V25KGL1800001000	25 x 25 x 1,5	43	-	0°-190°	black	75	75
K3D3V25KGL0001000	25 x 25 x 1,5	50	o. K.	60°-300°	black	100	100
K3D3V30KGL0001000	30 x 30 x 2,0	41	-	45°-200°	black	100	100

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## Plug-in connectors with link for square tubes - joints with two outlets

VG3

Application: for square tubes  
 Additional Info: for square tubes, link with two outlets  
 Material: polyamide  
 Standard-Colour: black



Order No.	For tube	Pin length	Note	Angle	Colour	PU*	MOQ**
K3D4V20KGL1800001000	20 x 20 x 1,5	42	-	0°-190°	black	100	100
K3D4V25KGL0001000	25 x 25 x 1,5	43	-	45°-195°	black	100	100
K3D4V25KGL1800001000	25 x 25 x 1,5	43	-	0°-190°	black	50	50
K3D4V25KGLOK0001000	25 x 25 x 1,5	50	o. K.	60°-300°	black	25	100
K3D4V30KGL0001000	30 x 30 x 2,0	41	-	45°-200°	black	50	50

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## VGQ

Standard-Colour: black



Order No.	For tube	Pin length mm	Flange	Note	Colour	PU*	MOQ**
K1D2V20K0001000	20 x 20 x 1,5	45	5,0		black	900	900
K1D2V20X2K0001	20 x 20 x 2,0	44	5,0		black	1000	1000
K1D2V25X1,5KL0001	25 x 25 x 1,5	35	5,0		black	700	700
K1D2V25X2KL0001	25 x 25 x 2,0	35	5,0		black	750	750
K1D2V30X1,5KLOB0001	30 x 30 x 1,5	61	-	o. B.	black	300	900
K1D2V30KOB0001	30 x 30 x 2,0	60	-	o. B.	black	300	900
K1D2V30KSO0001	30 x 30 x 2,0	50	5,0		black	350	350

07/2025

## Plug-in connectors for round tubes, straight

Application: for round tubes  
Additional Info: for round tubes, straight, half-shells  
suitable for arming with steel cores  
Material: PA  
Standard-Colour: black

**VGR**



Order No.	For tube Ø	Pin length	Flange	Note	Colour	PU*	MOQ**
K1D2R19K0001000	19 x 1,0	43	5,0		black	1000	-
K1D2R20X1,5KL0001000	20 x 1,5	36	5,0		black	1200	-
K1D2R22X1K0001000	22 x 1,0	38	2,0		black	1000	-
K1D2R22X1,5K0001000	22 x 1,5	40	5,0		black	1000	-
K1D2R22X2K0001000	22 x 2,0	42	5,0		black	1000	-
K1D2R25X1,5KL0001000	25 x1,5	37	5,0		black	800	-
K1D2R28X1,5K0001000	28 x 1,5	49	5,0		black	500	-
K1D2R28X2K0001000	28 x 2,0	50	5,0		black	500	-
K1D2R30X1,5K0001000	30 x 1,5	49	5,0		black	400	-
K1D2R30X2K0001000	30 x 2,0	49	5,0		black	350	-
K1D2R32X1,5K0001000	32 x 1,5	50	5,0		black	350	-
K1D2R32X2K0001000	32 x 2,0	50	5,0		black	400	-

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## Plug-in connectors for square tubes, cross

VK1

Application: for square tubes  
Additional Info: for square tubes, cross, half-shells  
suitable for arming with steel cores  
Material: polyamide  
Standard-Colour: black



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K2D4V20K0001000	20 x 20 x 1,5	36	black	350	350
K2D4V25K0001000	25 x 25 x 1,5	54	black	75	75
K2D4V30K0001000	30 x 30 x 2,0	47	black	100	100

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## Plug-in connectors for square tubes, cross

VK2

Application: for square tubes  
Additional Info: for square tubes, cross, one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K2D4V20MKGf1157000	20 x 20 x 1,5	30	grey	250	250
K2D4V25X2MKGf1157000	25 x 25 x 2,0	40	grey	250	250

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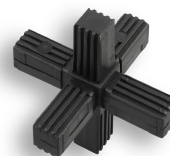
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## Plug-in connectors for square tubes, star

VS1

Application: for square tubes  
Additional Info: for square tubes, stars, half-shells  
suitable for arming with steel cores  
Material: polyamide  
Standard-Colour: black



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D6V20K0001000	20 x 20 x 1,5	36	black	200	200
K3D6V25K0001000	25 x 25 x 1,5	54	black	50	100
K3D6V30K0001000	30 x 30 x 2,0	47	black	50	100

Please note that the product illustrations are exemplary images that could deviate from the ordered/delivered products.

All of the dimensions are in mm should nothing to the contrary be stated.

\*PU = Packaging Unit, SW = Spanner opening, n.w. = not detachable, o. K. = excl. The head, o. B. = excl. The collar, m. R. = with the radius, MOQ = Minimum Order Quantity.

\*\* MOQ: Parts with MOQ, set-up costs may apply.



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## Plug-in connectors for square tubes, star

VS2

Application: for square tubes  
Additional Info: for square tubes, stars, one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D6V20MKGf1157000	20 x 20 x 1,5	30	grey	150	150

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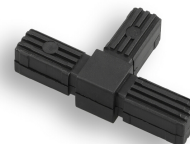
\*\* MOQ: Parts with MOQ, set-up costs may apply.

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## Plug-in connectors for square tubes, T-piece

VT1

Application: for square tubes  
Additional Info: for square tubes, T-pieces, half-shells  
suitable for arming with steel cores  
Material: polyamide  
Standard-Colour: black



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K2D3V20K0001000	20 x 20 x 1,5	36	black	350	350
K2D3V25K0001000	25 x 25 x 1,5	51	black	150	150
K2D3V30K0001000	30 x 30 x 2,0	47	black	100	100

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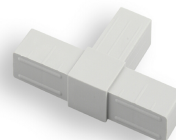
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## Plug-in connectors for square tubes, T-piece

VT2

Application: for square tubes  
Additional Info: for square tubes, T-pieces, one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K2D3V20MKG1157000	20 x 20 x 1,5	30	grey	350	350
K2D3V25X2MKG1157000	25 x 25 x 2,0	40	grey	300	300

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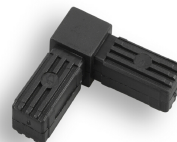
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## Plug-in connectors

Application: for square tubes  
 Additional Info: for square tubes with right angles, half-shells suitable for arming with steel cores  
 Material: polyamide  
 Standard-Colour: black

**VW1**


Order No.	For tube	Pin length	Note	Colour	PU*	MOQ**
K2D2V20K0001000	20 x 20 x 1,5	36	-	black	500	500
K2D2V20KOK0001000	20 x 20 x 1,5	37	o. K.	black	750	750
K2D2V20X2K0001000	20 x 20 x 2,0	36	-	black	750	750
K2D2V25K0001000	25 x 25 x 1,5	52	-	black	250	250
K2D2V25KOK0001000	25 x 25 x 1,5	56	o. K.	black	350	350
K2D2V25KR0001000	25 x 25 x 1,5	55	m. R.	black	350	350
K2D2V30K0001000	30 x 30 x 2,0	47	-	black	150	150
K2D2V30KOK0001000	30 x 30 x 2,0	47	o. K.	black	200	200

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## Plug-in connectors

Application: for square tubes  
Additional Info: for square tubes with right angles, one-piece  
Material: PA GF  
Standard-Colour: grey similar to RAL 7035

**VW2**

Order No.	For tube	Pin length	Colour	PU*	MOQ**
K2D2V20MKGf1157000	20 x 20 x 1,5	30	grey	500	500
K2D2V25X2MKGf1157000	25 x 25 x 2,0	40	grey	250	250

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