



# **Connectors and fasteners**

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



**VS2** Page: 19

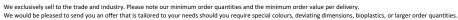
**VT1** Page: 20







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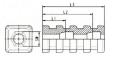




#### **Expander connectors for square tubes**

Application:
Material:
Standard-Colour:

for square tubes polyamide 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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**JE 1** 



#### **Expander connectors for round tubes**

Application: Additional Info:

Material:

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



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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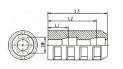
**JRE** 



#### **Expander connectors for round tubes**

Application:
Material:
Standard-Colour:

for round tubes polyamide 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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# Plug-in connectors for square tubes, cross with

#### outlet

Application:	for square
Additional Info:	for square
	shells suita
Material:	polyamide
Standard-Colour:	black

tubes tubes, cross with outlet, halfable for arming with steel cores



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D5V20K0001000	20 x 20 x 1,5	36	black	50	100
K3D5V25K0001000		54			
K3D5V30K0001000	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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VA1



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

#### outlet

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



6

**VA2** 

Order No.	For tube	Pin length	Colour	PU*	MOQ**
K3D5V20MKGF1157000	20 x 20 x 1,5	30	grey	200	200

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# Plug-in connectors for square tubes - angle with

#### outlet

Application: Additional Info: Material: Standard-Colour:

for square tubes for square tubes, angle with outlet, halfshells suitable for arming with steel cores polyamide 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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**VB1** 



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

#### outlet

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



8

VB2

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

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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VC1



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

#### outlet

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



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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VC2



#### Plug-in connectors for square tubes, joint

Application:
Additional Info:
Material:
Standard-Colour:

for square tubes for square tubes, link polyamide 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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VG1



#### Plug-in connectors with link for square tubes

Application: Additional Info: Material: Standard-Colour: for square tubes for square tubes, link, one-piece Polyamide 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
K3D3V25KGLOK0001000	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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VG2

# Plug-in connectors with link for square tubes -

# joints with two outlets

for square tubes
for square tubes, link with two outlets
polyamide
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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VG3

13



#### Plug-in connectors for square tubes, straight

Application: Additional Info:

Material:

for square tubes for square tubes, straight, half-shells suitable for arming with steel cores polyamide 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

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VGQ



#### Plug-in connectors for round tubes, straight

Application: Additional Info:

for round tubes for round tubes, straight, half-shells suitable for arming with steel cores PA

Material: Standard-Colour: black



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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**VGR** 



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

<b>U</b>	
Application:	fo
Additional Info:	fo
	su
Material:	рс
Standard-Colour:	bl

for square tubes or square tubes, cross, half-shells uitable for arming with steel cores olyamide 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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VK1



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

Application: Additional Info: Material: Standard-Colour:

for square tubes for square tubes, cross, one-piece PA GF 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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VK2



#### Plug-in connectors for square tubes, star

<b>U</b>	
Application:	f
Additional Info:	f
	S
Material:	р
Standard-Colour:	b

for square tubes for square tubes, stars, half-shells suitable for arming with steel cores polyamide 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

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**VS1** 



#### Plug-in connectors for square tubes, star

Application: Additional Info: Material: Standard-Colour:

for square tubes for square tubes, stars, one-piece PA GF 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

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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**VS2** 



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

Application: Additional Info: Material: Standard-Colour: for square tubes for square tubes, T-pieces, half-shells suitable for arming with steel cores polyamide 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	
K2D3V30K0001000	30 x 30 x 2,0	47	black	100	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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**VT1** 



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

Application: Additional Info: Material: Standard-Colour:

for square tubes for square tubes, T-pieces, one-piece PA GF grey similar to RAL 7035



Order No.	For tube	Pin length	Colour	PU*	MOQ**
K2D3V20MKGF1157000	20 x 20 x 1,5	30		350	350
K2D3V20WKGF1137000		50	grey	330	330
K2D3V25X2MKGF1157000	25 x 25 x 2,0	40	grey	300	300

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**VT2** 





# **Plug-in connectors**

Application: Additional Info:

Material:

for square tubes for square tubes with right angles, halfshells suitable for arming with steel cores polyamide Standard-Colour: black



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

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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**VW1** 



# Plug-in connectors Application: for square

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



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

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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**VW2**