

Support and mounting elements - Swivel elements

- Hooks
- Nails
- Thimbles
- Pins
- Anchors
- Cables
- Chains
- Connectors
- Nuts
- Links
- Washers
- Rods
- Bolts
- Bushes
- Mounts
- Screws
- Clamps
- Mortars
- Suspensions



## TECHNICAL DATA FOR EXPANSION BOLTS AND SLEEVES

All technical data are given for concrete grade C16/20.

### TECHNICAL DATA OF STR AND STS EXPANSION BOLTS

TECHNICAL SPECIFICATION	M6	M8	M10	M12	M16
Permissible breaking load Fmax [kN]	2,0	6,0	9,0	12,0	14,0 20,0
Minimum spacing of anchoring elements for Fmax [mm]	120	160	200	240	280
Minimum distance from ground edge for Fmax [mm]	60	80	100	120	140
Drill hole diameter [mm]	10,5	12,5	16,5	18,6	25,6
Minimum bore diameter in the fastener [mm]	7,0	9,0	11,0	13,0	17,0

### TECHNICAL DATA OF PSR EXPANSION BOLTS

TECHNICAL SPECIFICATION	M6	M8	M10	M12	M16
Permissible breaking load Fmax [kN]	2,25	5,0	5,4	10,1	15,8
Minimalny rozstaw elementów kotwiących dla Fmax [mm]	180	240	300	360	420
Minimum distance from ground edge for Fmax [mm]	90	120	150	180	210
Drill hole diameter [mm]	6,4	8,45	10,5	12,5	16,6
Minimum bore diameter in the fastener [mm]	7,0	9,0	11,0	13,0	17,0

### TECHNICAL DATA OF TRS EXPANSION SLEEVES

TECHNICAL SPECIFICATION	M6	M8	M10	M12	M16
Permissible breaking load Fmax [kN]	2,0	2,8	4,4	6,2	8,2
Minimum spacing of anchoring elements for Fmax [mm]	70	75	100	125	165
Minimum distance from ground edge for Fmax [mm]	95	100	135	175	230
Drill hole diameter [mm]	8,0	10,0	12,0	15,0	20,0
Minimum bore diameter in the fastener [mm]	7,0	9,0	11,0	13,0	17,0

### TECHNICAL DATA OF TRM EXPANSION SLEEVES

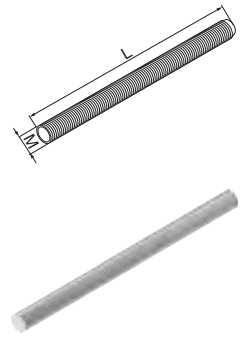
TECHNICAL SPECIFICATION	M6	M8	M10	M12	M16
Permissible breaking load Fmax [kN]	0,65	1,1	1,6	2,2	3,3
Minimum spacing of anchoring elements for Fmax [mm]	70	75	100	125	165
Minimum distance from ground edge for Fmax [mm]	95	100	135	175	230
Drill hole diameter [mm]	8,0	10,0	12,0	15,0	20,0
Minimum bore diameter in the fastener [mm]	7,0	9,0	11,0	13,0	17,0

## SELECTION OF COMPONENTS FOR DIFFERENT MOUNTING SURFACES

### BOLT/SLEEVE/STUD/ANCHOR

SUBSTRATE MATERIAL	BOLT/SLEEVE/STUD/ANCHOR																				
	STR	SKT	STS	TRS	TRM	PSR/PSRO	PSRZ	SRO	SRBO	SBSO	SBO	GS/GSO	KR	KMW	KMS	KWBO	KSKO	KKG5	MKR	SMD	KRN
concrete/stone	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		YES		YES
silka brick																	YES		YES		YES
plasterboard																		YES			
ceramic blocks																	YES		YES		YES
hollow ceiling																	YES				YES
cellular concrete			YES										YES								YES
wood					YES								YES								YES
steel sheet																				YES	

Threaded rod		PGCM...	mat.: G		
code	catalogue number	dimension M/L [mm]	breaking force [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
PGCM6/1	652901	6/1000	8.4	0.12	100
PGCM6/2	652301	6/2000	8.4	0.23	50
PGCM6/3	652331	6/3000	8.4	0.36	50
PGCM8/1	652401	8/1000	15.4	0.32	50
PGCM8/2	652501	8/2000	15.4	0.64	25
PGCM8/3	652701	8/3000	15.4	0.96	25
PGCM10/1	653001	10/1000	24.4	0.49	25
PGCM10/2	652601	10/2000	24.4	1.00	25
PGCM10/3	652801	10/3000	24.4	1.50	25
PGCM12/1	653101	12/1000	35.4	0.72	25
PGCM12/2	653201	12/2000	35.4	1.44	20
PGCM12/3	652900	12/3000	35.4	1.80	20



**Additional information:**

- material class 4.8

Threaded rod		PGM...	mat.: G	option: E	
code	catalogue number	dimension M/L [mm]	breaking force [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
PGM6/1	650301	6/1000	10.4	0.16	50
PGM6/2	650401	6/2000	10.4	0.32	50
PGM6/3	651401	6/3000	10.4	0.48	50
PGM8/01	650501	8/100	19	0.03	100
PGM8/02	650601	8/200	19	0.06	100
PGM8/03	650701	8/300	19	0.09	50
PGM8/1	650801	8/1000	19	0.32	50
PGM8/2	650901	8/2000	19	0.64	25
PGM8/3	651501	8/3000	19	0.96	25
PGM10/1	651001	10/1000	30.2	0.49	25
PGM10/2	651101	10/2000	30.2	1.00	25
PGM10/3	651601	10/3000	30.2	1.50	25
PGM12/1	651201	12/1000	43.8	0.72	25
PGM12/2	651301	12/2000	43.8	1.44	20
PGM12/3	651701	12/3000	43.8	2.16	10



**Use:**

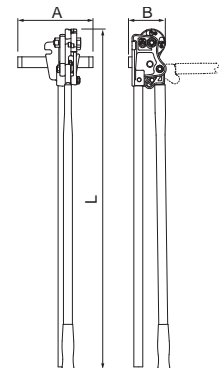
Suspending cable routes.

**Additional information:**

- material class 5.8



Threaded Rods Cutter		NDCP...	mat.: OSN	
code	catalogue number	dimension a/b/L [mm]	rod cutting range M	quantity per package [pcs.]
NDCP1	700610	210/105/850	6, 8, 10	1
NDCP2	700812	210/105/850	8, 10, 12	1



**Additional information:**

- possible cutting of threaded rods of three different diameters
- precise and fast cutting – without burrs,
- cut rod thread protection
- easy to use with a comfortable handle,
- the length of the shear arms provides optimum torque for easy cutting of bars
- OWNDCP... blades can be changed
- the cutter is designed to cut only M6, M8, M10 and M12 threaded rods.
- the cutter is not designed to cut hardened rods or anchor bolts.

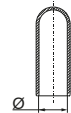


Replacement cutter blade		OWNDCP...	mat.: SU	
code	catalogue number		for rod cutting M	quantity per package [pcs.]
OWNDCPM6	701606		M6	1
OWNDCPM8	701608		M8	1
OWNDCPM10	701610		M10	1
OWNDCPM12	701612		M12	1



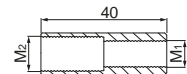
**Use:**  
Cutting M6, M8, M10 and M12 rods.

Protective Cap		NGP...	mat.: EPDM	
code	catalogue number		dimension Ø [mm]	quantity per package [pcs.]
NGPM6	900014		6	100
NGPM8	900015		8	100
NGPM10	900016		10	100
NGPM12	900017		12	100



**Use:**  
Protective cap on the end of the rod to protect the thread from damage.

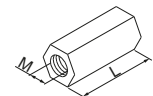
Rod Reducer		RN...	mat.: G	option: E	
code	catalogue number		dimension M <sub>1</sub> /M <sub>2</sub> [mm]	quantity per package [pcs.]	
RNM6/8	650105		6/8	100	
RNM8/10	650205		8/10	100	
RNM10/12	650305		10/12	100	



**Use:**  
Connecting threaded rods of different diameters.

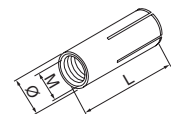
**Additional information:**  
– a rod with a larger diameter should be installed first

Rod Connector		NL...	mat.: G	option: E	
code	catalogue number		dimension M/L [mm]	quantity per package [pcs.]	
NLM6	650103		6/18	100	
NLM8	650203		8/24	100	
NLM10	650303		10/30	50	
NLM12	650403		12/36	50	



**Use:**  
Connecting threaded rods of equal diameters.

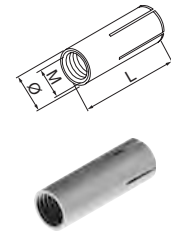
Drop-In Anchor		TRS...	mat.: G	option: E	
code	catalogue number		dimension Ø/M/L [mm]	quantity per package [pcs.]	
TRSM6	650107		8/6/25	100	
TRSM8	650207		10/8/30	100	
TRSM10	650307		12/10/40	100	
TRSM12	650407		14/12/50	100	



**Use:**  
Suspending cable routes.

**Additional information:**  
– minimum anchoring depth equal to the length of the sleeve  
– for mounting, use the OTR... steel sleeve mounting tool  
– minimum anchoring depth equal to the length of the sleeve  
– for mounting, use the OTR... steel sleeve mounting tool

Drop-In Anchor	TRSO...	mat.: G	option: E	
code	catalogue number	dimension Ø/M/L [mm]	quantity per package [pcs.]	
TRSOM6	804600	8/6/25	100	
TRSOM8	804700	10/8/30	100	
TRSOM10	804800	12/10/40	100	
TRSOM12	804900	14/12/50	100	

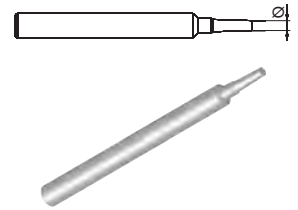


**Use:**  
Suspending cable routes.

**Additional information:**

- minimum anchoring depth equal to the length of the sleeve
- for mounting, use the OTR... steel sleeve mounting tool

Setting Tool for Drop-In Anchors OTR...		mat.: G		
code	catalogue number	dimension Ø [mm]	quantity per package [pcs.]	
OTRM6	650108	4.8	1	
OTRM8	650208	6.6	1	
OTRM10	650308	7.8	1	
OTRM12	650408	9.8	1	

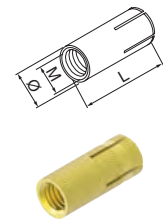


**Use:**  
Mounting TRS... and TRSO... expansion sleeves

**Additional information:**

- it is absolutely recommended to follow the aforementioned

Drop-In Anchor Brass	TRM...	mat.: MOS		
code	catalogue number	dimension Ø/M/L [mm]	quantity per package [pcs.]	
TRMM6	650109	8/6/30	100	
TRMM8	650209	10/8/30	100	
TRMM10	650309	12/10/40	50	
TRMM12	650409	14/12/50	50	



**Additional information:**

- minimum anchoring depth equal to the length of the sleeve

Drop-In Anchor	TRSK...	mat.: G		
code	catalogue number	dimension Ø/M [mm]	quantity per package [pcs.]	
TRSKM6	804602	8/6	100	
TRSKM8	804702	10/8	100	
TRSKM10	804802	12/10	100	
TRSKM12	804902	14/12	100	



**Use:**  
Suspending cable routes.

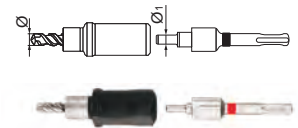
**Additional information:**

- use the NDS mounting tool for mounting
- reduced anchoring depth to 25 mm.
- possibility to directly suspend a cable route without using a USV/USOV hanger.

## Setting Tool

### NDS...

code	catalogue number	dimension/dimension Ø1 Ø/Ø1 [mm]	quantity per package [pcs.]
NDS6	804603	8/4.8	1
NDS8	804703	10/6.6	1
NDS10	804803	12/7.8	1
NDS12	804903	14/9.8	1



### Use:

Mounting TRSK... expansion sleeves

### Additional information:

- 2-part tool, consisting of a drill bit with the length of 25 mm and nailer
- the set is used to drill a hole with a drill to a well-defined depth for a TRSK... sleeve.
- after removing the drill bit, the sleeve is installed with a nailer

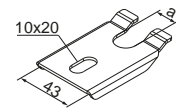
## Channel Hanger

### UPNC...

mat.: S

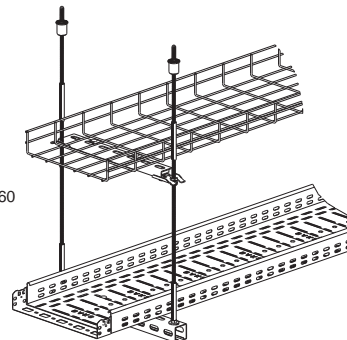
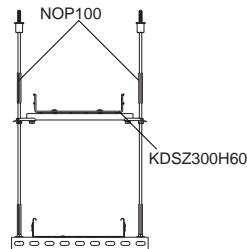
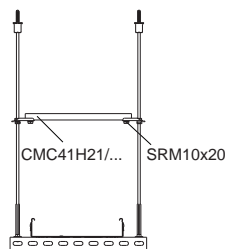
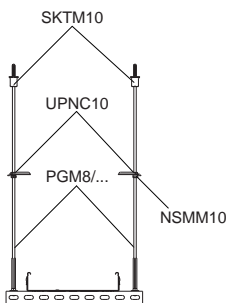
option: FP, E, L

code	catalogue number	dimension a [mm]	quantity per package [pcs.]
UPNC6	652006	12	10
UPNC8	652008	16	10
UPNC10	652010	17	10
UPNC12	652012	20.5	10



### Additional information:

- fits channels with the width of 40 and 41 mm
- product suitable for NSM... nut





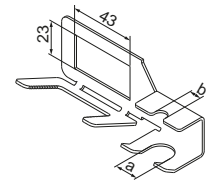
## Channel Hanger

UPNDP...

mat.: S

option: FP, E, L

code	catalogue number	dimension a/b [mm]	quantity per package [pcs.]
UPNDP6	662006	12/7	10
UPNDP8	662008	16/9	10
UPNDP10	662010	17/11	10
UPNDP12	662012	20.5/13	10

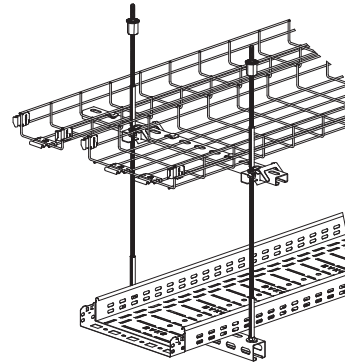
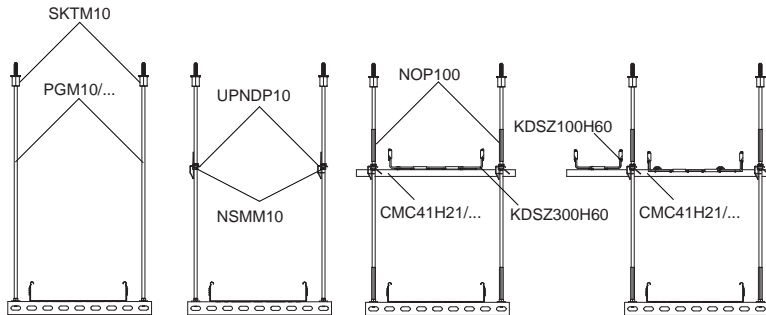


### Use:

Extension of existing cable routes suspended on threaded rods.

### Additional information:

- fits channels 40-41 mm wide and 21-22 mm high
- product suitable for NSM... nut

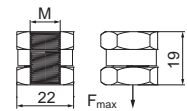


## Quick Lock Nut

NSM...

mat.: G

code	catalogue number	dimension M [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]
NSMM6	650170	6	1.65	100
NSMM8	650270	8	4.50	100
NSMM10	650470	10	6.00	100
NSMM12	650570	12	10.00	100



### Use:

Mounting channels using UPNC... or UPNDP... clamps on PG... threaded rods without the threading process. Reduces installation time by 50%.

### Additional information:

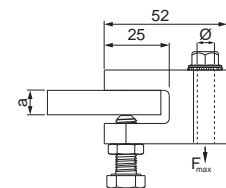
- rapid expansion of the existing cable route suspended on M6, M8, M10 or M12 threaded rods

## Quick Lock Clip

ZSM...

mat.: OSG

code	catalogue number	dimension $\emptyset/a_{min}/a_{max}$ [mm]	load max. $F_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZSM8	752307	8/3/9	1.10	0.13	10
ZSM10	752308	10/3/9	1.10	0.13	10



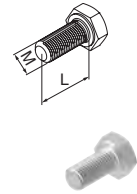
### Use:

Mounting rods to I-beams, angle profiles, etc.

### Additional information:

- push-to-install design means that during mounting, the threaded rod only needs pushing into the mounting hole for immediate mounting in the correct position
- the lock nut can be tightened with your fingers and lock the rod
- can be used in conjunction with slightly damaged threads and when there are small burrs on the threaded rod

Screw Set	SSZ...	mat.: G	option: E	
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]	
SSZ6x10	610611	6/10	100	
SSZ6x12	610612	6/12	100	
SSZ6x16	610616	6/16	100	
SSZ8x16	610816	8/16	100	
SSZ8x20	610821	8/20	100	
SSZ8x30	610831	8/30	100	
SSZ8x40	610841	8/40	100	
SSZ10x20	611022	10/20	100	
SSZ10x30	611032	10/30	100	
SSZ10x40	611041	10/40	100	
SSZ10x50	611050	10/50	100	
SSZ10x60	611061	10/60	100	
SSZ10x70	611070	10/70	100	
SSZ10x80	611080	10/80	100	
SSZ10x100	611001	10/100	100	
SSZ10x120	611112	10/120	100	
SSZ10x140	611113	10/140	100	
SSZ12x30	611232	12/30	100	
SSZ12x40	611241	12/40	100	
SSZ12x50	611251	12/50	100	
SSZ12x60	611261	12/60	100	
SSZ12x80	611280	12/80	100	
SSZ12x100	611201	12/100	100	
SSZ12x120	611312	12/120	100	



**Use:**

Connecting system components.

**Additional information:**

- 5.8 grade bolt
- size according to DIN 933





# SUPPORTING AND ASSEMBLY ELEMENTS - SCREWS, NUTS AND WASHERS

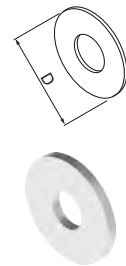


Washer	PP...	mat.: G	option: F, E		
code	catalogue number	use with	outside diameter D [mm]	quantity per package [pcs.]	
PP6	650744	M6	12	100	
PP8	650444	M8	16	100	
PP10	650544	M10	20	100	
PP12	650644	M12	24	100	



**Additional information:**  
– size according to DIN 125

Large Washer	PW...	mat.: G	option: F, E		
code	catalogue number	use with	outside diameter D [mm]	quantity per package [pcs.]	
PW6	650844	M6	18	100	
PW8	650944	M8	24	100	
PW10	651044	M10	30	100	
PW12	651144	M12	37	100	



**Additional information:**  
– size according to DIN 9021

External Lock Washer	PZZ...	mat.: G	option: E		
code	catalogue number	use with	outside diameter D [mm]	quantity per package [pcs.]	
PZZ6	650545	M6	10	100	
PZZ8	650645	M8	14	100	
PZZ10	650745	M10	18	100	
PZZ12	650845	M12	22	100	

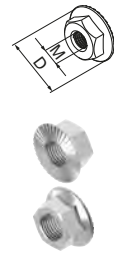


**Use:**  
Separation of the bolt and nut from the actual material that is joined by them, reducing the risk of loosening the nut.

**Additional information:**  
– size according to DIN 6798A



Serrated Lock Nut	NKZ...	mat.: G	option: FP, E
code	catalogue number	dimension M/D [mm]	quantity per package [pcs.]
NKZM6	650045	6/13	100
NKZM8	650245	8/17	100
NKZM10	650345	10/20.5	100
NKZM12	650445	12/26	100



**Additional information:**  
 – size according to DIN 6923

Nut	NS...	mat.: G	option: F, FP, E
code	catalogue number	dimension M [mm]	quantity per package [pcs.]
NSM6	650044	6	100
NSM8	650144	8	100
NSM10	650244	10	100
NSM12	650344	12	100



**Use:**  
 Connecting system components.

**Additional information:**  
 – size according to DIN 934

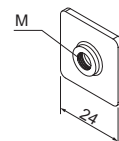
Self Locking Nut	NSAM...	mat.: G	option: E
code	catalogue number	dimension M [mm]	quantity per package [pcs.]
NSAMM6	651244	6	100
NSAMM8	651334	8	100
NSAMM10	651444	10	100
NSAMM12	651544	12	100



**Use:**  
 For bolting system components subject to vibration and in seismic environments.

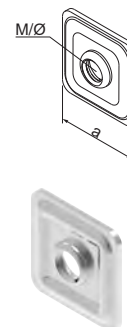
**Additional information:**  
 – size according to DIN 985  
 – nuts have an insert to prevent self loosening

Square Nut	NK...	mat.: G	option: FP, E
code	catalogue number	dimension M [mm]	quantity per package [pcs.]
NKM6	650147	6	100
NKM8	650247	8	100



**Use:**  
 Connecting system components.

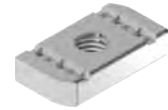
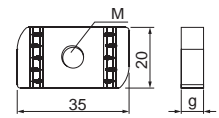
Square Nut	NW...	mat.: G	option: FP, E		
code	catalogue number	dimension a/M [mm]	dimension a/Ø [mm]	plate thickness [mm]	quantity per package [pcs.]
<b>Material thickness = 2.0 mm</b>					
NWM6	650149	35/6		2	100
NWM8	650249	35/8		2	100
NWØ11	650349		35/11	2	100
<b>Material thickness = 3.0 mm</b>					
NW50M8	650449	43/8		3	100
NW50Ø11	650549		43/11	3	100



**Use:**  
 Mounting system components to the open side of reinforced and support channels.

**Additional information:**  
 – stepless adjustment of the mounting position

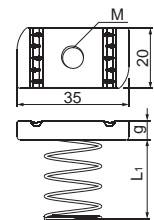
Channel nut		NR...	mat.: G		option: E	
code	catalogue number	dimension M [mm]	plate thickness [mm]		quantity per package [pcs.]	
NRM6	650616	6	6		100	
NRM8	650151	8	6		100	
NRM10	650251	10	8		100	
NRM12	650175	12	9		100	



**Additional information:**

- nut fits CM...41... and CW...40 channels
- selection of hot-dip galvanised bolts to hot-dip galvanised nuts for special order (special design)

Channel Nut		NRS...	mat.: G		option: E	
code	catalogue number	dimension M/L <sub>1</sub> /g [mm]	dimension M/L <sub>1</sub> /g/H [mm]		quantity per package [pcs.]	
NRSM6/13	650275	6/13/6			100	
NRSM6/33	650375	6/33/6			100	
NRSM8/13	650350	8/13/6			100	
NRSM8/33	650351		8/33/6/33		100	
NRSM10/13	650360	10/13/8			100	
NRSM10/33	650361	10/33/8			100	
NRSM12/13	650475	12/13/8			100	
NRSM12/33	650575	12/33/8			100	



**Use:**

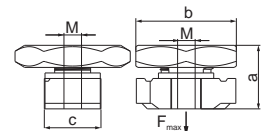
Mounting system components to the open side of reinforced and support channels. The use of a nut makes mounting easier and provides additional pressure.

**Additional information:**

- NRS M8/13 and M10/13 nut fits channels: CWD40H22, CWP40H22, CWC40H22, CMD40H22
- NRS M8/33 and M10/33 nut fits channels: CWD40H35, CWP40H35, CWC40H35, CWD40H40, CWP/CWOP40H40, CWC40H40, CMP41H41, CMC41H41
- the use of a spring facilitates mounting by preventing the nut from moving
- selection of hot-dip galvanised bolts to hot-dip galvanised nuts for special order (special design)



Quick Lock Nut - Rhomboid		NSR...	mat.: G				
code	catalogue number	dimension M [mm]	dimension a [mm]	dimension b [mm]	dimension c [mm]	load max. F <sub>max</sub> [kN]	quantity per package [pcs.]
NSRM8	650670	8	23	35	13	2.75	100
NSRM10	650770	10	23	35	13	3.75	100



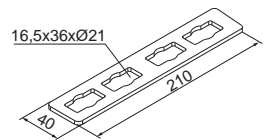
**Use:**

Suspending cable routes using M8 or M10 threaded rods and reinforced or support channels.

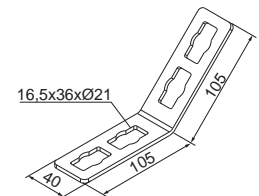
**Additional information:**

- mounting to the open side of channels

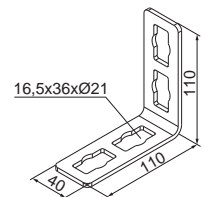
Channel connector	LCSP	mat.: FP	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 4.0 mm</b>				
LCSP	650813	0.18	20	



Channel connector 45°	LCSP1	mat.: FP	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 4.0 mm</b>				
LCSP1	650811	0.18	20	



Channel connector 90°	LCSP2	mat.: FP	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 4.0 mm</b>				
LCSP2	650812	0.19	20	

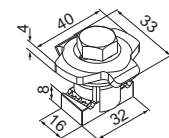


**Use:**  
For connecting free standing structures based on channels with a width and height of 41 mm using the NSP channel nut.

**Additional information:**

- accelerates the construction of structures made of 41x41 sections with the use of a rhombus nut for quick mounting NSP.

Fast Assembly Channel Nut - Rhomboid	NSP	mat.: G		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
NSP	650810	0.08	100	

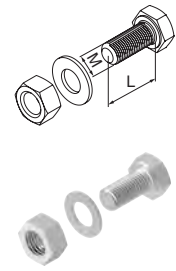


**Use:**  
Quick connection of structures made of channels with height and width of 41 mm on the principle of through mounting using LCSP, LCSP1 and LCSP2 connectors.

**Additional information:**

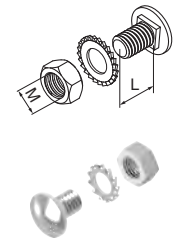
- flexible mechanism allows convenient positioning of the fixed element by pushing and sliding
- the serrated channel nut forms a strong connection, which improves safety
- quick mounting saves time and effort in both mounting and dismounting

Screw (set)	SM...	mat.: G	option: F, FP, E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]
SMM6x16	652043	6/16	100
SMM8x16	650443	8/16	100
SMM8x30	650543	8/30	100
SMM10x20	650743	10/20	100
SMM10x30	650843	10/30	100
SMM10x40	651243	10/40	100
SMM10x50	651245	10/50	100
SMM10x60	650943	10/60	100
SMM10x70	651007	10/70	100
SMM10x80	651043	10/80	100
SMM10x100	651011	10/100	100
SMM12x30	651143	12/30	100
SMM12x100	651343	12/100	100

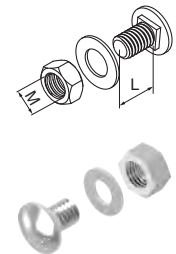


**Additional information:**  
 - 5.8 grade bolt  
 - size according to DIN 933

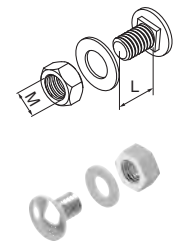
Oval head screw (set)	SG...	mat.: G	option: FP, E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]
SGM6x10	650141	6/10	100
SGM6x12	650641	6/12	100
SGM6x14	650614	6/14	100
SGM6x16	650618	6/16	100
SGM6x25	650241	6/25	100
SGM8x12	650341	8/12	100
SGM8x14	650441	8/14	100
SGM8x16	655641	8/16	100
SGM10x16	651016	10/16	100
SGM10x20	650841	10/20	100
SGM10x30	650741	10/30	100
SGM12x30	650541	12/30	100



Oval head screw (set)	SGN...	mat.: G	option: E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]
SGNM6x12	650442	6/12	100
SGNM8x14	650142	8/14	100
SGNM8x20	650342	8/20	100
SGNM10x20	650642	10/20	100
SGNM12x30	650242	12/30	100

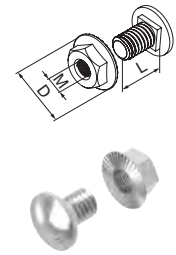


Oval head screw (set)	SGF...	mat.: FP	option: E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]
SGFM6x12	650166	6/12	100
SGFM8x14	650266	8/14	100
SGFM8x16	650366	8/16	100
SGFM10x20	651020	10/20	100
SGFM10x30	651032	10/30	100
SGFM12x30	651232	12/30	100



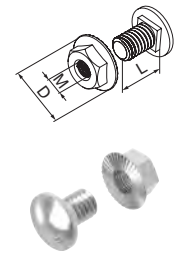
**Use:**  
 Connecting system components.

Screw Set	SGK...	mat.: G	option: E		
code	catalogue number	dimension M/L [mm]	flange D [mm]	quantity per package [pcs.]	
SGKM6x10	651041	6/10	13	100	
SGKM6x12	651141	6/12	13	100	
SGKM6x14	655041	6/14	13	100	
SGKM6x16	655061	6/16	13	100	
SGKM6x22	640622	6/22	13	100	
SGKM6x25	903300	6/25	13	100	
SGKM8x14	651241	8/14	17	100	
SGKM8x16	654041	8/16	17	100	
SGKM10x20	651341	10/20	20.5	100	
SGKM10x30	651030	10/30	20.5	100	
SGKM12x30	651230	12/30	26	100	



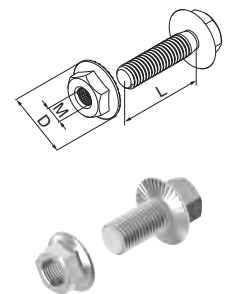
[English]: Śruba z łbem grzybkowym + nakrętka kołnierkowa ząbkowana (kpl.)

code	catalogue number	dimension M/L [mm]	flange D [mm]	quantity per package [pcs.]	
SGKFM6x12	651441	6/12	13	100	
SGKFM8x14	651541	8/14	17	100	
SGKFM8x16	651542	8/16	17	100	
SGKFM10x20	651641	10/20	20.5	100	
SGKFM10x30	890111	10/30	20.5	100	
SGKFM12x30	651330	12/30	26	100	



**Additional information:**  
 - 8.8 grade bolt

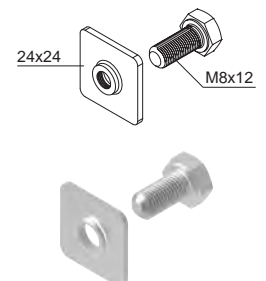
Screw set	SKK...	mat.: G	option: E		
code	catalogue number	dimension M/L [mm]	flange D [mm]	quantity per package [pcs.]	
SKKM6x10	650152	6/10	13	100	
SKKM6x25	650252	6/25	13	100	
SKKM8x12	650352	8/12	17	100	
SKKM8x14	650452	8/14	17	100	
SKKM10x30	650552	10/30	20.5	100	
SKKM12x30	650652	12/30	26	100	



**Use:**  
 Connecting system components.

**Additional information:**  
 - 5.8 grade bolt  
 - size according to DIN 6921

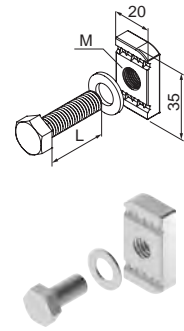
Screw Set	SNKM8x12	mat.: G	option: F, FP, E		
code	catalogue number			quantity per package [pcs.]	
SNKM8x12	650145			100	



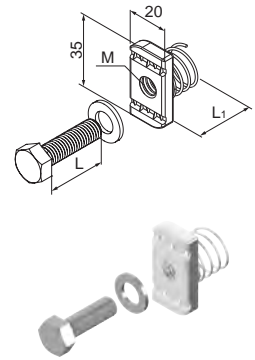
**Use:**  
 Connecting system components with channels.



Screw (set)	SR...	mat.: G	option: F, E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]
SRM6x25	652506	6/25	100
SRM8x25	650451	8/25	100
SRM10x20	650675	10/20	100
SRM10x25	650654	10/25	100
SRM10x30	650651	10/30	100
SRM12x30	653510	12/30	100



Screw (set)	SRS...	mat.: G	option: F, E
code	catalogue number	dimension M/L/L <sub>1</sub> [mm]	quantity per package [pcs.]
SRSM6x25/13	652510	6/25/13	100
SRSM6x25/33	652516	6/25/33	100
SRSM8x25/13	652511	8/25/13	100
SRSM8x25/33	652517	8/25/33	100
SRSM10x20/13	652512	10/20/13	100
SRSM10x20/33	652518	10/20/33	100
SRSM10x25/13	652513	10/25/13	100
SRSM10x25/33	652519	10/25/33	100
SRSM10x30/13	652514	10/30/13	100
SRSM10x30/33	652520	10/30/33	100
SRSM12x30/13	652515	12/30/13	100
SRSM12x30/33	652521	12/30/33	100

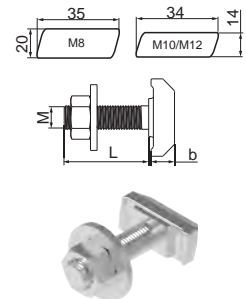


**Additional information:**

- stepless adjustment of the mounting position
- 5.8 grade bolt



T-screw	SMH...	mat.: G	option: F, E
code	catalogue number	dimension M/b/L [mm]	quantity per package [pcs.]
SMHM8x25	650372	8/10/25	100
SMHM10x30	650373	10/11/30	100
SMHM12x30	650374	12/11/30	100



**Use:**

Mounting system components to the open side of reinforced and support channels.

**Additional information:**

- mounting structure with a channel with a width. 40 and 41 mm
- stepless adjustment of the mounting position
- 4.8 grade bolt

T-screw	SMH...E	mat.: E	
code	catalogue number	dimension M/b/L [mm]	quantity per package [pcs.]
SMHM8x25E	660370	8/10/25	100
SMHM10x30E	660371	10/11/30	100
SMHM12x30E	660372	12/11/30	100

**Use:**

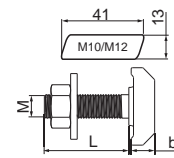
For mounting a free standing structure with a channel.

**Additional information:**

- mounting structure with a channel with a width. 40 and 41 mm



T-screw	SMHP...	mat.: G	option: F, E
code	catalogue number	dimension M/b/L [mm]	quantity per package [pcs.]
SMHPM10x30	650376	10/12/30	100
SMHPM12x30	650377	12/12/30	100



**Use:**

Mounting system components to the open side of reinforced and support channels.

**Additional information:**

- mounting structure with a channel with a width. 50 mm.
- stepless adjustment of the mounting position



Wire rope	LS...	mat.: G	option: E		
code	catalogue number	dimension Ø [mm]	braid	load max. F <sub>max</sub> [kN]	quantity per package [m]
LS1	266299	1	1x7	0.50	500
LS1,6	650021	1.5	1x7	1.00	300
LS2	650121	2	1x19	1.36	200
LS3	650221	3	6x7	3.11	200
LS4	650321	4	6x7	5.54	150
LS5	650421	5	6x7	8.65	150
LS6	650521	6	6x19	11.50	100
LS8	650621	8	6x19	20.45	100
LS10	650721	10	6x19	32.00	50
LS12	650821	12	6x19	46.00	50

**Use:**  
Mounting structures, suspending cable routes.



Wire Rope - PVC Coated	LSP...	mat.: SC+PVC			
code	catalogue number	dimension Ø insulated [mm]	load max. F <sub>max</sub> [kN]	braid	quantity per package [m]
LSP1.6/3	650122	1.6/3	1.00	1x7	100
LSP2/3	650222	2/3	1.36	1x19	100
LSP3/4	650322	3/4	3.11	6x7	100
LSP4/5	650422	4/5	5.54	6x7	100
LSP5/6	650522	5/6	8.65	6x7	100
LSP6/8	650622	6/8	11.50	6x7	100
LSP8/10	650722	8/10	20.45	6x19	100

**Use:**  
Mounting structure, suspending cable routes to the concrete substrate.

**Additional information:**  
– for wire ropes F<sub>max</sub>[kN] = Minimum breaking force at rated wire strength of 1770 N/mm<sup>2</sup> [kN]



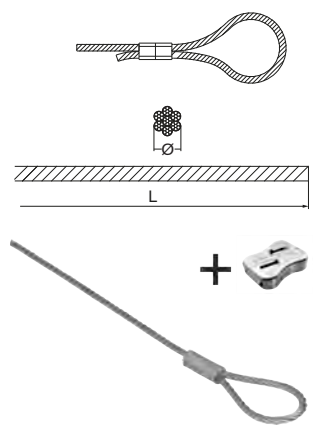
Hanger - Hook End	LH2...	mat.: G			
code	catalogue number	dimension Ø/L [mm]	load max. F <sub>max</sub> [kN]		quantity per package [pcs.]
LH2/5	650961	2/5000	0.44		10
LH2/10	651061	2/10000	0.44		5



Hanger - Loop	LZP...	mat.: G			
code	catalogue number	dimension Ø/L [mm]	load max. F <sub>max</sub> [kN]		quantity per package [set]
LZP1/1	651021	1/1000	0.10		10
LZP1/2	651022	1/2000	0.10		10
LZP1/3	651023	1/3000	0.10		10
LZP1/5	651024	1/5000	0.10		10
LZP2/1	651025	2/1000	0.50		10
LZP2/2	651026	2/2000	0.50		10
LZP2/3	651027	2/3000	0.50		10
LZP2/5	651028	2/5000	0.50		10

**Use:**  
Suspending lighting fixtures, cables, speakers, alarm sensors, signage, pipes, etc. to purlins, beams, roof trusses and other structural elements.

**Additional information:**  
– for quick and easy mounting to roofs, support beams, roof structures, etc.  
– shorter installation time compared to conventional methods  
– Material: 7x7 braided steel wire rope with galvanised fibres  
– all links have a ZLM1 or ZLM2 clamp included  
– free end of rope ideal for use with ZT8 and ZT16 spring slings





**Wire rope with eye bolt**

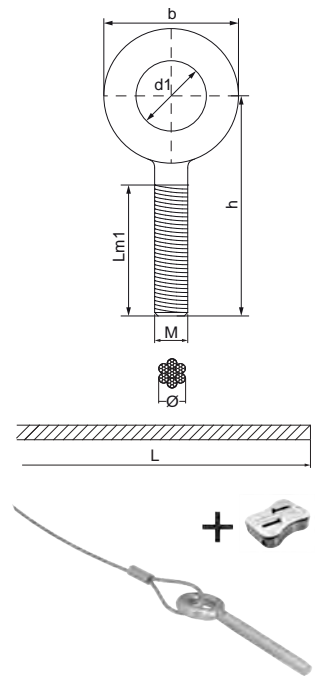
LZO2...

mat.: G

code	catalogue number	dimension $\varnothing/L/M$ [mm]	dimension on b [mm]	dimension on B [mm]	dimension on h [mm]	dimension on Lm1 [mm]	load max. $F_{max}$ [kN]	quantity per package [set]
LZO2M6/1	651080	2/1000/M6	20	$\varnothing 11$	62	48	0.50	10
LZO2M6/2	650081	2/2000/M6	20	$\varnothing 11$	62	48	0.50	10
LZO2M6/3	650082	2/3000/M6	20	$\varnothing 11$	62	48	0.50	10
LZO2M6/5	650083	2/5000/M6	20	$\varnothing 11$	62	48	0.50	10
LZO2M8/1	650084	2/1000/M8	25	$\varnothing 13$	74	56	0.50	10
LZO2M8/2	650085	2/2000/M8	25	$\varnothing 13$	74	56	0.50	10
LZO2M8/3	650086	2/3000/M8	25	$\varnothing 13$	74	56	0.50	10
LZO2M8/5	650088	2/5000/M8	25	$\varnothing 13$	74	56	0.50	10

**Additional information:**

- easy and quick mounting in the ceiling using the expansion sleeve
- shorter installation time compared to conventional methods
- Material: 7x7 braided steel wire rope with galvanised fibres
- all links have a ZLM2 clamp included
- free end of rope ideal for use with ZT8 and ZT16 spring slings



**Steel cable with snap end hook**

LZK2...

mat.: G

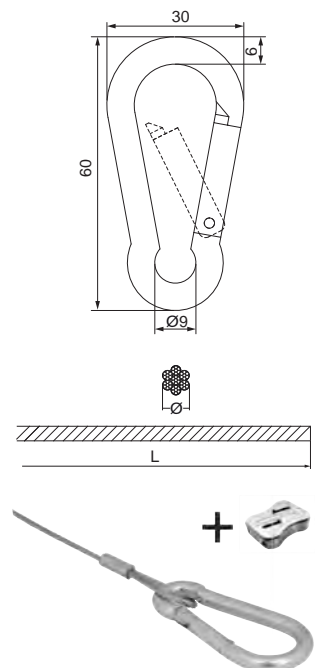
code	catalogue number	dimension $\varnothing/L$ [mm]	load max. $F_{max}$ [kN]	quantity per package [set]
LZK2/1	650090	2/1000	0.50	10
LZK2/2	650091	2/2000	0.50	10
LZK2/3	650092	2/3000	0.50	10

**Use:**

Suspending lighting fixtures, cables, speakers, alarm sensors, signage, pipes, etc. to purlins, beams, roof trusses and other structural elements.

**Additional information:**

- easy and quick mounting to hook and eye elements
- shorter installation time compared to conventional methods
- Material: 7x7 braided steel wire rope with galvanised fibres
- all links have a ZLM2 clamp included
- free end of rope ideal for use with ZT8 and ZT16 spring slings





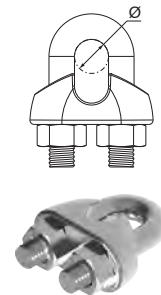
Thimble	KU...	mat.: G	option: E
code	catalogue number	dimension Ø [mm]	quantity per package [pcs.]
KU3	650125	3	100
KU4	650225	4	100
KU5	650325	5	100
KU6	650425	6	100
KU8	650525	8	100
KU10	650625	10	100

**Use:**  
Protects the line from abrasion damage.



Wire Rope Grip	ZL...	mat.: G	option: E
code	catalogue number	dimension Ø [mm]	quantity per package [pcs.]
ZL3	650123	3	100
ZL5	650323	5	100
ZL6	650423	6	100
ZL8	650523	8	50
ZL10	650623	10	50

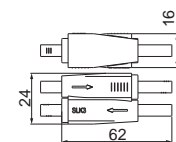
**Use:**  
For crimping wire ropes.



Locking Device	ZLM...	mat.: G		
code	catalogue number	fits Ø [mm]	load max. F <sub>max</sub> [kN]	quantity per package [pcs.]
ZLM1	652262	1	0.10	50
ZLM2	652263	2	0.50	50



Locking Device	ZLD	mat.: G		
code	catalogue number	fits Ø [mm]	load max. F <sub>max</sub> [kN]	quantity per package [pcs.]
ZLD	652361	3	0.89	50



**Use:**  
The clamp provides stability and allows additional adjustment of the cable after it is attached. Quick mounting.



Rope Cutter	NDL		
code	catalogue number		quantity per package [pcs.]
NDL	651661		1

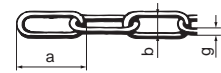
**Use:**  
Cutting steel wires with diameters of Ø1 – Ø3 mm.

**Additional information:**  
– the ends of the wires after cutting do not fray thanks to special blades

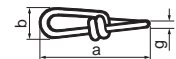




Genovese Chain		LNP...	mat.: G	option: E
code	catalogue number	dimension g/a/b [mm]	load max. $F_{max}$ [kN]	quantity per package [m]
LNP2,2	650111	2.2/29/10	0.20	30
LNP2	650211	2/18/9	0.30	110
LNP3	650311	3/23/12.5	0.50	60
LNP4	651411	4/27/16	1.00	40
LNP5	650411	5/31/19	1.60	30

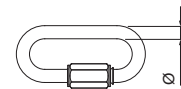


Victor Chain		LNS...	mat.: G	option: E
code	catalogue number	dimension g/a/b [mm]	load max. $F_{max}$ [kN]	quantity per package [m]
LNS1,4	650213	1.4/21/6.5	0.15	30
LNS2	650113	2/28/9	0.40	30



**Use:**  
Suspending cable routes.

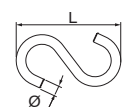
Quick Link		OS...	mat.: G	option: E
code	catalogue number	dimension $\emptyset$ [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]
OS4	650115	4	0.40	100
OS5	650215	5	0.75	100
OS6	650315	6	1.00	100



Twisted Link		OG...	mat.: G	
code	catalogue number	dimension $\emptyset$ [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]
OG4	650117	4	0.30	100
OG5	650217	5	0.50	100
OG6	650317	6	0.60	100



S-Hook		HS...	mat.: G	option: E
code	catalogue number	dimension $\emptyset/L$ [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]
HS3	650119	3/34	0.08	100
HS4	650219	4/40	0.23	100
HS5	650319	5/48	0.30	100
HS6	650419	6/60	0.50	100
HS7	650519	7/70	0.73	100
HS8	650619	8/79	1.00	100



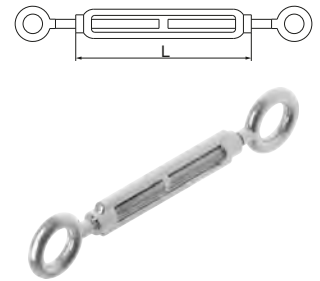
**Use:**  
Connecting chains.



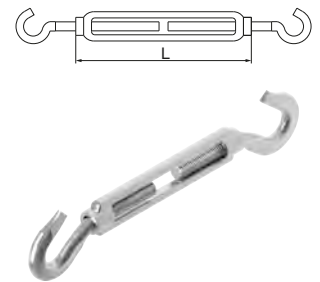
Turnbuckle Hook and Eye		KHO...	mat.: G	option: E
code	catalogue number	dimension L [mm]	quantity per package [pcs.]	
KHO6x90	650154	90	100	
KHO8x110	650254	110	60	
KHO10x130	650354	123	50	
KHO12x140	650454	123	30	



Turnbuckle Eye and Eye		KOO...	mat.: G	option: E
code	catalogue number	dimension L [mm]	quantity per package [pcs.]	
KOO6x90	651154	90	100	
KOO8x110	651254	110	60	
KOO10x130	651354	125	50	
KOO12x140	651454	125	30	

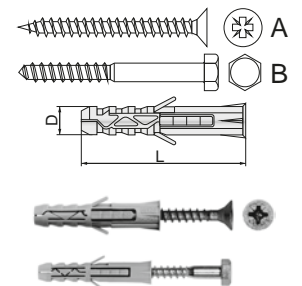


Turnbuckle Hook and Hook		KHH...	mat.: G	option: E
code	catalogue number	dimension L [mm]	quantity per package [pcs.]	
KHH6x90	652054	90	100	
KHH8x110	652154	110	60	
KHH10x130	652254	125	50	
KHH12x140	652354	125	30	

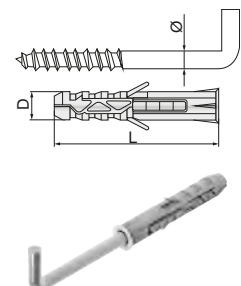


**Use:**  
Hanging cable routes to existing structures.

Wall Plug		KR...	mat.: G	option: E
code	catalogue number	dimension D/L [mm]	Screw head shape	quantity per package [pcs.]
KRØ6/3,5x35	650139	6/35	A	100
KRØ6/3,5x50	650239	6/50	A	100
KRØ8/4x40	650339	8/40	A	100
KRØ8/4x60	650439	8/60	A	100
KRØ10/5x50	650539	10/50	A	100
KRØ10/6x60	650639	10/60	B	100
KRØ10/6x80	650739	10/80	B	100
KRØ10/6x100	650839	10/100	B	100
KRØ10/6x120	650939	10/120	B	100
KRØ12/8x60	651039	12/60	B	100
KRØ12/8x80	651139	12/80	B	100
KRØ12/8x100	651239	12/100	B	100
KRØ12/8x120	651339	12/120	B	100
KRØ14/10x120	651439	14/120	B	100
KRØ14/10x140	651539	14/140	B	100
KRØ14/10x160	651639	14/160	B	100



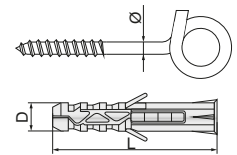
Wall Plug		KHK...	mat.: G
code	catalogue number	dimension Ø/D/L [mm]	quantity per package [pcs.]
KHKØ6/3	650157	2.5/6/30	100
KHKØ8/4	650257	3.5/8/40	100
KHKØ10/5	650357	4/10/50	100
KHKØ10/6	650457	5/10/60	100



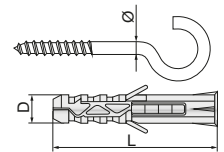
**Use:**  
Mounting structure, suspending cable routes to the concrete substrate.



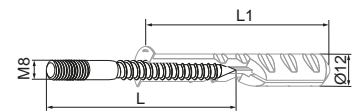
Wall Plug	KHR...	mat.: G	
code	catalogue number	dimension Ø/D/L [mm]	quantity per package [pcs.]
KHRØ12/8	650458	6/12/60	100



Wall Plug	KHRO...	mat.: G	
code	catalogue number	dimension Ø/D/L [mm]	quantity per package [pcs.]
KHROØ6/4	650159	3/6/30	100
KHROØ8/4,5	650259	3.5/8/40	100



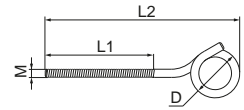
Wall Plug	KG...	mat.: G	
code	catalogue number	dimension L/L <sub>1</sub> [mm]	quantity per package [pcs.]
KGØ12/8×60	650156	60/58	100
KGØ12/8×80	650256	80/60	100
KGØ12/8×100	650356	40/60	100
KGØ12/8×120	650456	60/60	100



**Use:**  
Mounting structure, suspending cable routes to the concrete substrate.



<b>Pigtail Bolt</b>		<b>SH...</b>	mat.: G		option: E
code	catalogue number	dimension M/D/L <sub>1</sub> [mm]	dimension L <sub>2</sub> [mm]	quantity per package [pcs.]	
SHM6x80	650127	6/27/75	120	100	
SHM8x100	650227	8/41/105	160	50	
SHM10x120	650327	10/54/110	180	25	

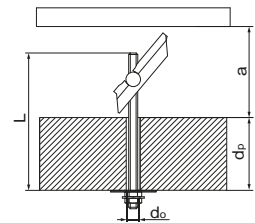


<b>Anchor Bolt</b>		<b>SHZ...</b>	mat.: G		option: E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]		
SHZM6x80	650129	6/80	100		
SHZM8x100	650229	8/100	100		
SHZM10x120	650329	10/120	50		



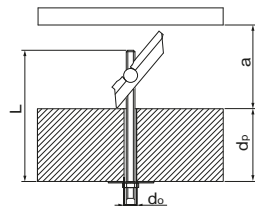
**Use:**  
Mounting structures, suspending cable routes.

<b>Gravity Toggle</b>		<b>SZ...</b>	mat.: G			
code	catalogue number	dimension L [mm]	size d <sub>0</sub> [mm]	dimension d <sub>p</sub> [mm]	min. space a [mm]	quantity per package [pcs.]
SZM5x100	650150	100	16	63	70	25
SZM6x100	650250	100	16	63	70	25
SZM8x100	650300	100	20	55	75	20



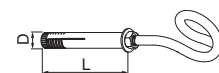
XI

<b>Gravity Toggle</b>		<b>SZH...</b>	mat.: G			
code	catalogue number	dimension L [mm]	size d <sub>0</sub> [mm]	dimension d <sub>p</sub> [mm]	min. space a [mm]	quantity per package [pcs.]
SZHM5x90	650450	130	16	60	70	20
SZHM6x100	650550	130	16	60	70	20
SZHM8x100	650650	130	20	55	75	20

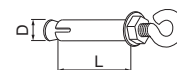


**Use:**  
Mounting to ceilings with hollow spaces and to trapezoidal sheets.

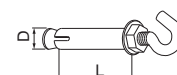
Anchor Bolt	SHR...	mat.: G		
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
SHRM6/10x80	650131	10/80	100	
SHRM8/12x100	650231	12/100	100	
SHRM10/14x120	650331	14/120	50	



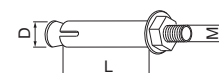
Anchor Bolt	SHRZ...	mat.: G		
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
SHRZM6/10x80	650133	10/80	100	
SHRZM8/12x100	650233	12/100	100	
SHRZM10/14x120	650333	14/120	50	



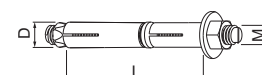
Anchor Bolt	SHRO...	mat.: G		
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
SHROM6/10x80	650135	10/80	50	
SHROM8/12x100	650235	12/100	50	
SHROM10/14x120	650335	14/120	50	



Anchor Bolt	STR...	mat.: G		
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
STRM6/10x60	650137	10/60	100	
STRM6/10x100	650237	10/100	100	
STRM8/12x60	650337	12/60	100	
STRM8/12x80	650437	12/80	100	
STRM8/12x100	650537	12/100	100	
STRM8/12x120	650637	12/120	100	
STRM10/16x80	650737	16/80	50	
STRM10/16x100	650837	16/100	50	
STRM10/16x120	650937	16/120	50	
STRM12/18x100	651037	18/100	50	
STRM12/18x120	651137	18/120	25	
STRM16/25x120	651237	25/120	25	



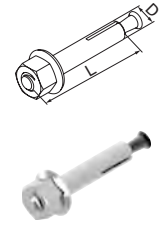
Anchor Bolt	STS...	mat.: G		
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
STSM6/10x100	650155	10/100	100	
STSM6/10x150	650255	10/150	50	
STSM8/12x100	650355	12/100	100	
STSM8/12x150	650455	12/150	50	
STSM8/12x180	650555	12/180	50	
STSM10/16x100	650655	16/100	50	
STSM10/16x150	650755	16/150	50	
STSM10/16x210	650855	16/210	25	
STSM12/18x120	650955	18/120	50	
STSM12/18x160	651055	18/160	25	
STSM12/18x200	651155	18/200	25	



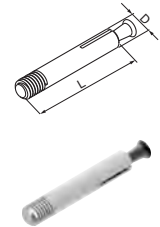
**Use:**  
Mounting structure, suspending cable routes to the concrete substrate.



Anchor Bolt	SROM6x30	mat.: G	option: E
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]
SROM6x30	803900	6/30	200



Anchor Bolt	SRBOM6x30	mat.: G	option: E
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]
SRBOM6x30	803912	6/30	200



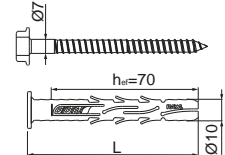
**Use:**  
Mounting structures and suspending cable routes from the concrete substrate.

Stop Drill	WSRO6x30	mat.: S
code	catalogue number	dimension M/L [mm]
WSRO6x30	803906	6/30

**Use:**  
Drilling holes for SROM6x30 anchor bolts to a well-defined depth.



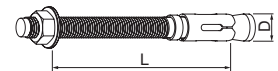
Frame Fixing	KRN...	mat.: G	option: E
code	catalogue number	dimension L [mm]	quantity per package [pcs.]
KRN10x80	651008	80	100
KRN10x100	651010	100	100
KRN10x120	651012	120	100



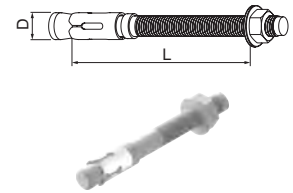
**Use:**  
Mounting structures and suspending cable routes to solid and hollow substrates.



Anchor Bolt	PSR...	mat.: G	option: FP, E
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]
PSRM6x65	650153	6/65	200
PSRM6x100	650253	6/100	100
PSRM8x75	650353	8/75	100
PSRM8x115	650453	8/115	100
PSRM10x65	650553	10/65	100
PSRM10x90	650653	10/90	100
PSRM10x95	651095	10/95	50
PSRM10x115	651115	10/115	50
PSRM10x120	650753	10/120	50
PSRM12x90	651353	12/90	50
PSRM12x100	651210	12/100	50
PSRM12x110	650953	12/110	50
PSRM12x140	651053	12/140	50

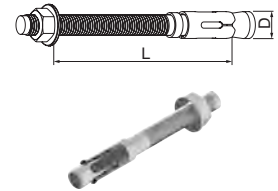


Anchor Bolt	PSRO...	mat.: G	option: FP, E	
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
PSROM6x45	651351	6/45	100	
PSROM6x50	651352	6/50	100	
PSROM8x75	804000	8/75	100	
PSROM10x80	804100	10/80	100	
PSROM12x100	804200	12/100	50	



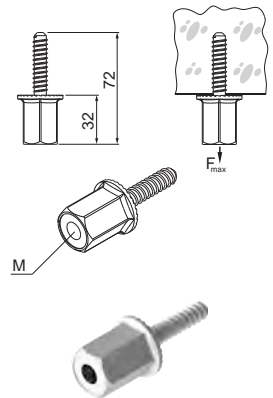
**Use:**  
Mounting structures and suspending cable routes from the concrete substrate.

Anchor Bolt	PSRZ...	mat.: G	option: E	
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]	
PSRZM8x75	807000	8/75	50	
PSRZM10x80	807100	10/80	50	
PSRZM12x100	807200	12/100	20	



**Use:**  
Mounting structures and suspending cable routes from the substrate in C20/25-C50/60, C12/15 uncracked and cracked concrete and natural stone with compacted structure (floor, wall, ceiling).

Quick Lock Anchoring Screw	SKT...	mat.: G			
code	catalogue number	dimension M [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]	
SKTM8	650870	8	2.90	100	
SKTM10	650970	10	2.90	100	

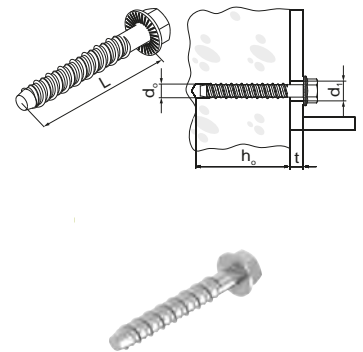


**Use:**  
Mounting threaded rod to concrete and hard brick.

**Additional information:**

- allows mounting a threaded rod with a slightly damaged thread and a small burr
- reduces mounting time by up to 35%

Concrete screw	SBSO...	mat.: G						
code	catalogue number	dimension L [mm]	size $d_0$ [mm]	size $d_1$ [mm]	size $h_0$ [mm]	dimension t [mm]	quantity per package [pcs.]	
SBSOM5x50	880550	50	5	8	55	7	100	
SBSOM6x50	880650	50	6	9	55	7	100	
SBSOM6x75	880675	75	6	9	55	10	100	
SBSOM8x60	880660	60	8	12	70	10	100	
SBSOM8x90	803916	90	8	14	80	20	100	
SBSOM10x75	881075	75	10	14	80	20	100	
SBSOM10x85	881085	85	10	14	80	20	100	
SBSOM10x100	803918	100	10	14	80	20	100	



**Additional information:**

- reduced installation time thanks to a simplified procedure – simply drill and screw in
- can be completely dismantled
- high performance in cracked and uncracked concrete
- $d_0$  - drill bit diameter
- $d_1$  - hole in the fastened element
- $h_0$  - min. drilling depth
- t – max. usable thickness

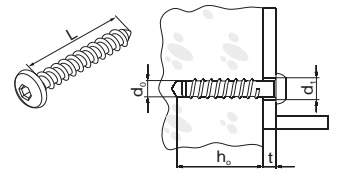
Concrete screw	SBSO...E	mat.: E						
code	catalogue number	dimension L [mm]	size $d_0$ [mm]	size $d_1$ [mm]	size $h_0$ [mm]	dimension t [mm]	quantity per package [pcs.]	
SBSOM10x95E	803919	95	10	14	105	10	50	

### Concrete screw

SBO...

mat.: G

code	catalogue number	dimension L [mm]	size d <sub>0</sub> [mm]	size d <sub>1</sub> [mm]	size h <sub>0</sub> [mm]	dimension t [mm]	quantity per package [pcs.]
SBOM6x40	804915	40	6	8	45	5	100
SBOM6x60	803915	60	6	8	65	5	100



### Use:

Mounting structure, suspending cable routes to the concrete substrate.

### Additional information:

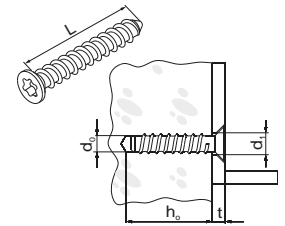
- d<sub>0</sub> - drill bit diameter
- d<sub>1</sub> - hole in the fastened element
- h<sub>0</sub> - min. drilling depth
- t - max. usable thickness

### Concrete Screw

WDB7,5x52

mat.: G

code	catalogue number	dimension L [mm]	size d <sub>0</sub> [mm]	size d <sub>1</sub> [mm]	size h <sub>0</sub> [mm]	dimension t [mm]	quantity per package [pcs.]
WDB7,5x52	800752	52	6	7.5	65	22	100



### Use:

Mounting UDF..., UEF... brackets and OZ... clamps to concrete.

### Additional information:

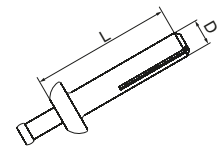
- d<sub>0</sub> - drill bit diameter
- d<sub>1</sub> - hole in the fastened element
- h<sub>0</sub> - min. drilling depth
- t - max. usable thickness

### Nail-In Anchor

KMW...

mat.: G

code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]
KMW6x30	652030	6/30	100
KMW6x40	652040	6/40	100
KMW6x50	652050	6/50	100

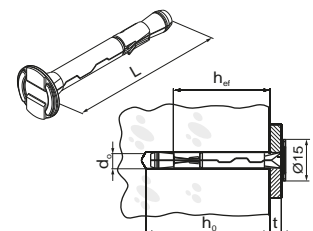


### Nail-In Anchor

KMS...

mat.: G

code	catalogue number	dimension L [mm]	dimension t [mm]	size d <sub>0</sub> [mm]	size h <sub>0</sub> [mm]	size h <sub>ef</sub> [mm]	quantity per package [pcs.]
KMS6x5	651070	45	5	6	40	32	100
KMS6x32	651170	75	35	6	40	32	100



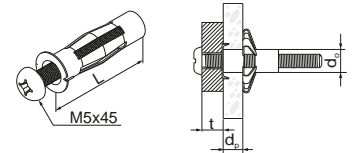
### Use:

Mounting structure, suspending cable routes to the concrete substrate.

### Additional information:

- d<sub>0</sub> - drill bit diameter
- h<sub>0</sub> - min. drilling depth
- h<sub>ef</sub> - effective anchoring depth
- t - max. usable thickness

Anchor Bolt		KKG5...	mat.: G				quantity per package [pcs.]	
code	catalogue number	dimension L [mm]	size d <sub>0</sub> [mm]	dimension d <sub>p</sub> [mm]	dimension t [mm]			
KKG5x37	803940	37	10	6-15	19	100		
KKG5x65	803943	65	10	20-34	24	100		

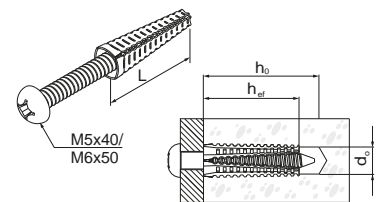


**Use:**  
Mounting structures, suspending cable routes to plasterboard.

- Additional information:**
- mounting only to plasterboard.
  - d<sub>p</sub> - thickness of plasterboard
  - d<sub>0</sub> - drill bit diameter
  - t - max. usable thickness



Anchor Bolt		MKR...	mat.: G			quantity per package [pcs.]	
code	catalogue number	size d <sub>0</sub> [mm]	size h <sub>ef</sub> [mm]	size h <sub>0</sub> [mm]			
MKR6x32	803941	8	32	38	100		
MKR8x38	803942	11	38	46	100		

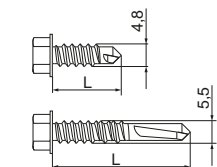


**Use:**  
Mounting structures, suspending cable routes to cellular concrete, SILKA brick, concrete and Porotherm brick.

- Additional information:**
- do not use an impact drill for mounting in Porotherm brick
  - for mounting in cellular concrete, anchor bolts can be driven without drilling holes
  - h<sub>ef</sub> - effective anchoring depth
  - d<sub>0</sub> - drill bit diameter
  - h<sub>0</sub> - min. drilling depth



Self-drilling screw		SMD...	mat.: G	option: E	quantity per package [pcs.]	
code	catalogue number	dimension L [mm]	dimension t [mm]	steel base thickness		
SMD4,8x16	* 804043	16	1-2	0,5-4	100	
SMD4,8x19	804819	19	1-2	0,5-4	100	
SMD5,5x32	* 804044	32	1-2	4-10	100	



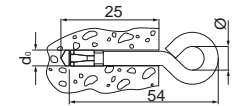
**Use:**  
Mounting cable clamps UDF... and UEF... to steel substrate (sandwich panels, trapezoidal sheets).

- Additional information:**
- t - max. usable thickness
  - \* - option E not available

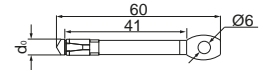




Anchor Bolt	KHZ6	mat.: G	quantity per package [pcs.]
code	catalogue number	size $d_0$ [mm]	
KHZ6	803931	6	100



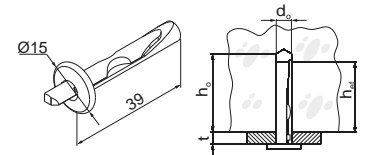
Anchor Bolt	KO6	mat.: G	quantity per package [pcs.]
code	catalogue number	size $d_0$ [mm]	
KO6	803932	6	100



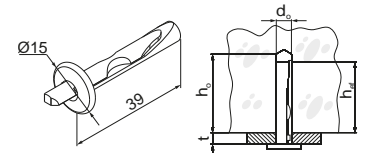
**Use:**  
Mounting structure, suspending cable routes to the concrete substrate.

**Additional information:**  
–  $d_0$  - drill bit diameter

Ceiling Nail	GS6x40	mat.: G	quantity per package [pcs.]			
code	catalogue number	size $d_0$ [mm]	dimension t [mm]	size $h_0$ [mm]	size $h_{ef}$ [mm]	
GS6x40	652060	6	4.5	45	32	100



Ceiling Nail	GSO6x40	mat.: G	quantity per package [pcs.]			
code	catalogue number	size $d_0$ [mm]	dimension t [mm]	size $h_0$ [mm]	size $h_{ef}$ [mm]	
GSO6x40	803929	6	4.5	45	32	100



**Use:**  
Mounting structures and suspending cable routes from the concrete substrate.

**Additional information:**  
–  $d_0$  - drill bit diameter  
–  $h_0$  - min. drilling depth  
–  $h_{ef}$  - effective anchoring depth  
– t - max. usable thickness

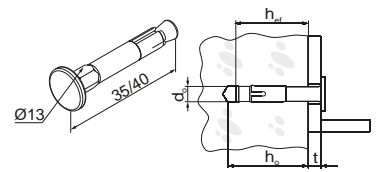
Stop Drill	WGSO6x40	quantity per package [pcs.]
code	catalogue number	
WGSO6x40	803930	1



**Use:**  
Drill holes.

**Additional information:**  
– drilling holes for GS6x40 and GSO6x40 anchor bolts to a precise depth

Nail anchor		KWBO...		mat.: G		option: E	
code	catalogue number	size $d_0$ [mm]	dimension t [mm]	size $h_0$ [mm]	size $h_{ef}$ [mm]	quantity per package [pcs.]	
KWBO6x35	* 803920	6	5	31	25	100	
KWBO6x40	803921	6	5	45	35	50	



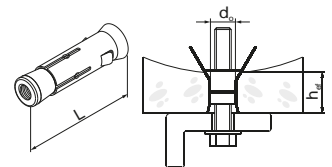
**Use:**

Mounting structure, suspending cable routes to the concrete substrate.

**Additional information:**

- $d_0$  - drill bit diameter
- $h_0$  - min. drilling depth
- $h_{ef}$  - effective anchoring depth
- t - max. usable thickness
- \* - option E not available

Hollow - Ceiling Anchor		KSKO...		mat.: G	
code	catalogue number	dimension L [mm]	size $d_0$ [mm]	size $h_{ef}$ [mm]	quantity per package [pcs.]
KSKOM6	803923	37	10	30	100
KSKOM8	803924	43	12	35	100
KSKOM10	803925	52	16	40	100



Hollow - Ceiling Anchor		KSKO...E		mat.: E	
code	catalogue number	dimension L [mm]	size $d_0$ [mm]	size $h_{ef}$ [mm]	quantity per package [pcs.]
KSKOM6E	803926	37	10	30	100
KSKOM8E	803927	43	12	35	100
KSKOM10E	803928	52	16	40	100



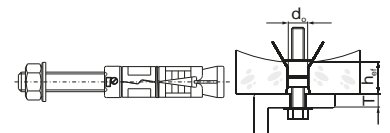
**Use:**

Mounting structures, suspending cable routes to concrete and hollow core ceilings.

**Additional information:**

- $d_0$  - drill bit diameter
- $h_{ef}$  - effective anchoring depth

Stud anchor for precast hollow core flooring slab bases		KSSKO...		mat.: G	
code	catalogue number	size $d_0$ [mm]	dimension t [mm]	size $h_{ef}$ [mm]	quantity per package [pcs.]
KSSKOM6/10	804111	12	10	45	100
KSSKOM8/10	804112	14	10	50	100
KSSKOM10/15	804113	16	15	60	100
KSSKOM10/60	804114	20	60	80	100
KSSKOM12/15	804115	20	15	80	100
KSSKOM12/75	804116	20	75	80	100



**Use:**

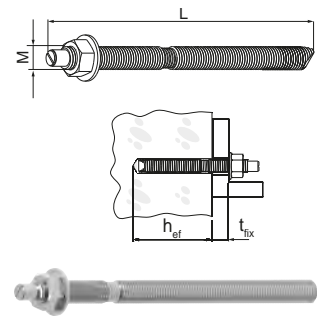
Mounting structure, suspending cable routes to the concrete substrate.

**Additional information:**

- $d_0$  - drill bit diameter
- $h_{ef}$  - effective anchoring depth
- t - max. usable thickness



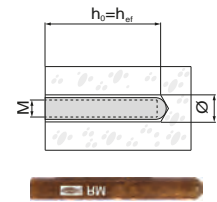
Threaded rod		PGS...		mat.: G	option: E			quantity per package [pcs.]	
code	catalogue number	dimension M/L [mm]	breaking force [kN]	dimension t [mm]	size h <sub>ef</sub> [mm]	weight 1 pc. [kg]			
PGSM8x110	653301	8/110	8.8	13	80	0.04	10		
PGSM10x130	653401	10/130	12.3	20	90	0.08	10		
PGSM12x160	653501	12/160	19.7	25	110	0.14	10		



**Additional information:**

- for use with ZIO... mortars for solid brick, perforated brick, solid blocks, lime-sand blocks, light concrete and cellular concrete, lime-sand and ceramic blocks, and in cracked and uncracked concrete.
- h<sub>ef</sub> - effective anchoring depth
- t - max. usable thickness

Glass Ampule (comes as a set with PGS...)		AS...		drill bit Ø [mm]	size h <sub>ef</sub> [mm]	size h <sub>0</sub> [mm]	quantity per package [pcs.]	
code	catalogue number	dimension M [mm]	dimension M [mm]					
AS8	653601	8	10	10	80	80	10	
AS10	653701	10	12	12	90	90	10	
AS12	653801	12	14	14	110	110	10	



**Use:**

Mounting steel structures, rails, brackets, ladders, cable routes, stairs, gates, facades and for mounting with spacing and wooden structures.

**Additional information:**

- h<sub>0</sub> - min. drilling depth
- h<sub>ef</sub> - effective anchoring depth
- high strength and low resin shrinkage provide the highest loads in uncracked concrete
- this type of anchoring is free of expansion stress.

Injection mortar		ZIO...		quantity per package	contents [ml]	
code	catalogue number	weight 1 pc. [kg]	weight 1 pc. [kg]			
ZIO300	653902	0.50	0.50	1	300	
ZIO410	653910	0.70	0.70	1	400	



**Use:**

Mounting steel structures, rails, racks, brackets, gates, facades, window elements, to: solid brick, perforated brick, solid blocks, lime-sand blocks, light concrete and cellular concrete, lime-sand and ceramic blocks, and in cracked and uncracked concrete.

**Additional information:**

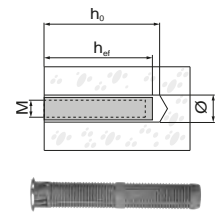
- injection mortar is a vinyl ester based hybrid mortar with approval for standard mountings in cracked concrete and masonry
- thermal resistance of the mortar in the range of -40 C to +120 C allows a stable level of loads even when exposed to extreme temperatures, providing high flexibility





**Injections Anchor Sleeve TST...**

code	catalogue number	dimension M	drill bit Ø [mm]	size h <sub>0</sub> [mm]	size h <sub>ef</sub> [mm]	quantity per package [pcs.]
TST12x50	653903	M6-M8	12	60	50	50
TST12x85	653904	M6-M8	12	95	85	50
TST16x85	653905	M8-M12	16	95	85	50

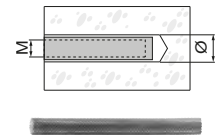


**Additional information:**

- h<sub>0</sub> - min. drilling depth
- h<sub>ef</sub> - effective anchoring depth
- centring wings in the mesh sleeve stabilize the anchor bolt, allow the use of threaded rods of different diameters
- hook connectors keep the sleeve in the hole and allow seamless overhead mounting
- the geometry of the mesh sleeve allows the non-bearing layers of the substrate to be fused together, which contributes to the ease and convenience of mounting
- guarantees optimum use of mortar

**Metal Injections Anchor Sleeve TSM...1000**

code	catalogue number	dimension M/L [mm]	drill bit Ø [mm]	hole diameter [mm]	quantity per package [pcs.]
TSM12x1000	653906	M6-M8/1000	12	12	10
TSM16x1000	653907	M10-M12/1000	16	16	10
TSM22x1000	653908	M12-M16/1000	22	22	10



**Use:**

It is designed for use with one of the injection mortars – ZIO300 or ZIO410 when mounting in perforated brick, lime-sand and ceramic blocks. With the sleeve, the best fitting connection in the masonry is achieved with economical use of mortar.

**Additional information:**

- guarantees optimum use of mortar

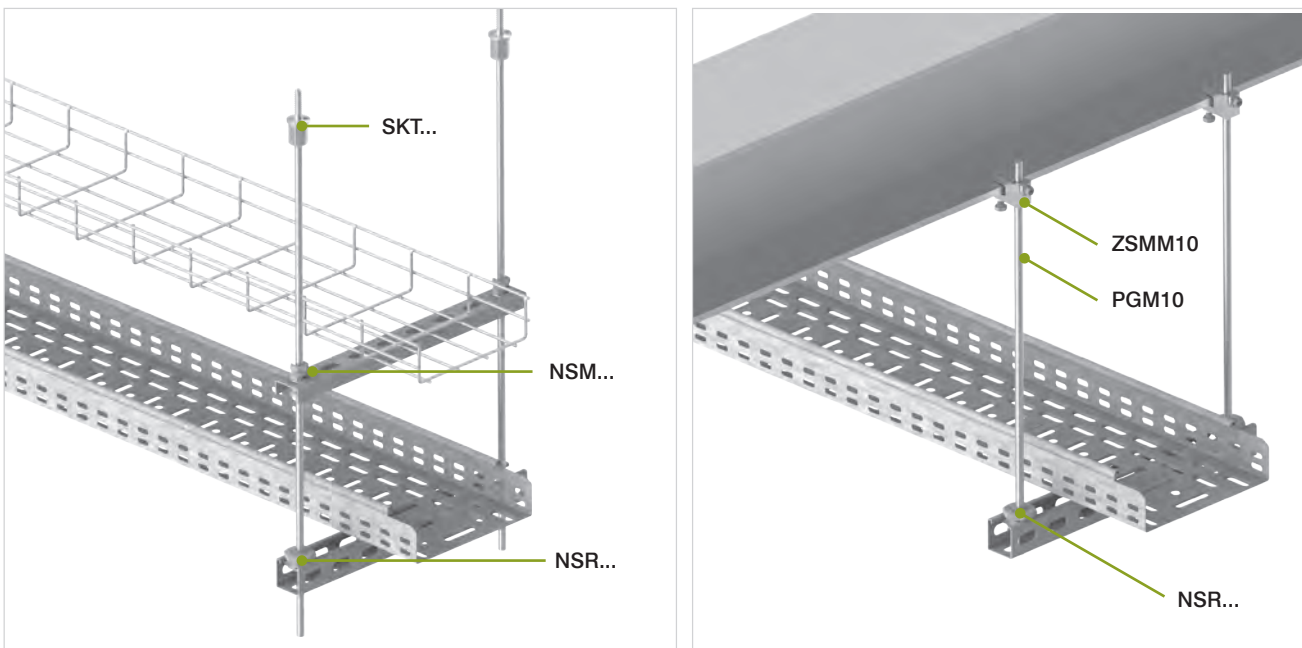




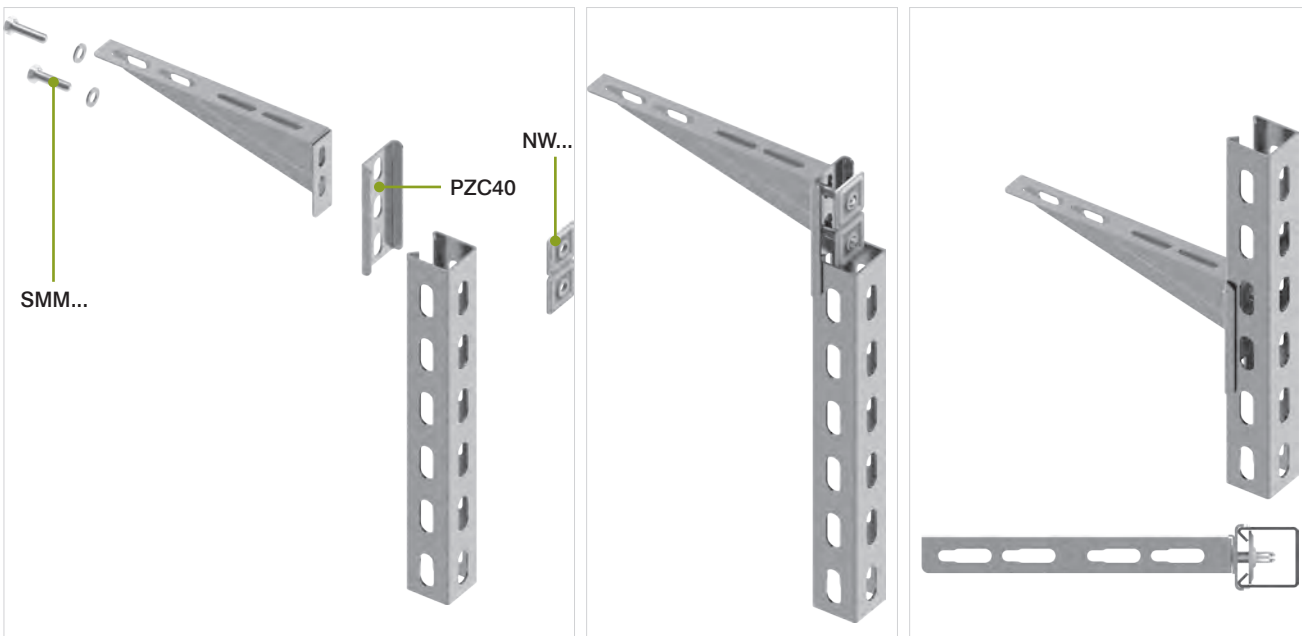
Example of use of NSP... rhomboid nut and channel connectors



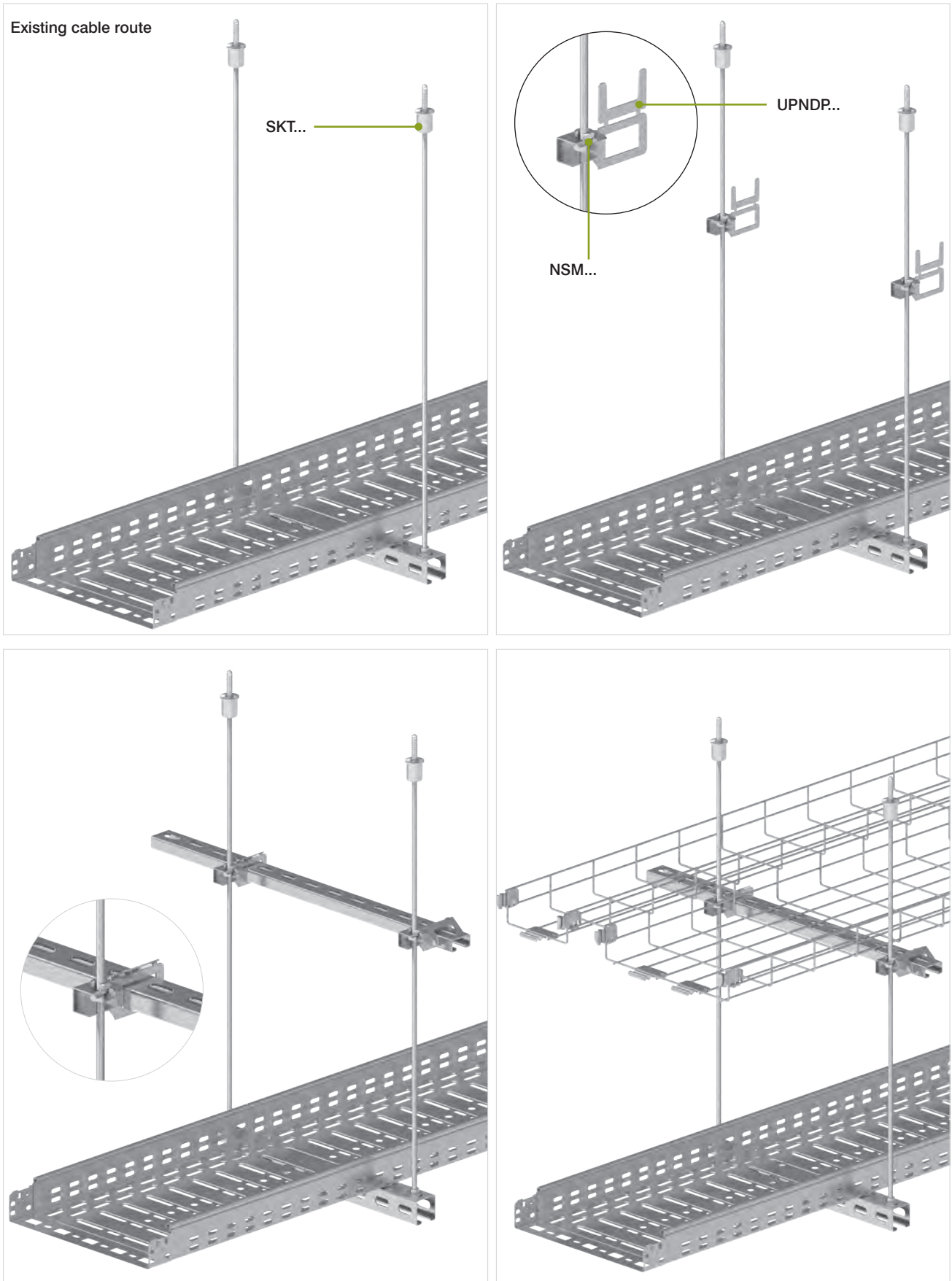
Example of application of NSM... and NSR... quick lock nut



Example of use of PZC assembly plate and NW... reinforced nuts



## Example of application of UPNDP... rod holder and NSM... quick lock nut



Example of use of UPNC... rod holder and NSM... quick lock nut

