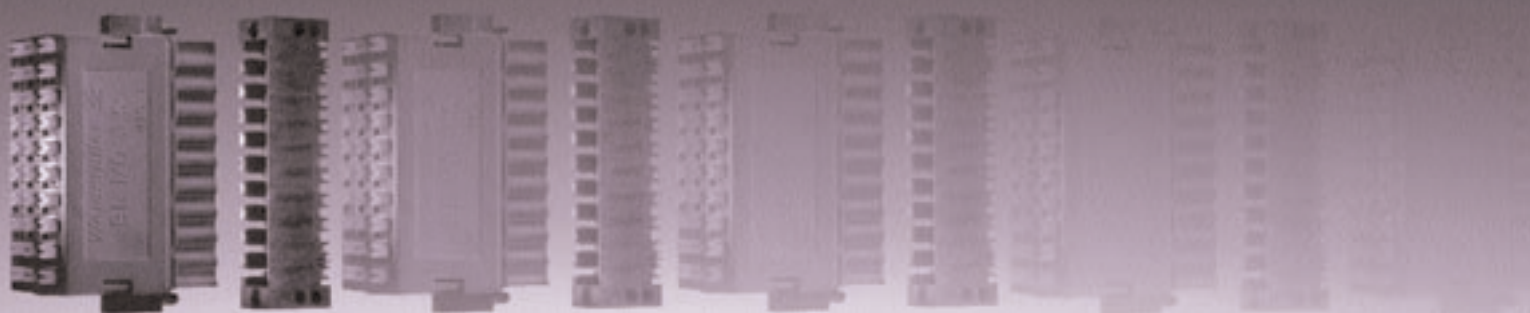


PCB-COMPONENTS
PCB-COMPONENTS



CATALOGUE 2002/03 CATALOGUE 2002/03
CATALOGUE 2002/03
CATALOGUE 2002/03

CATALOGUE SECTION

LP 5.00

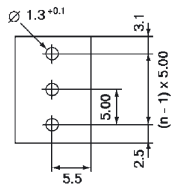
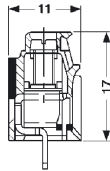
When good enough just isn't good enough

Weidmüller 

Rated cross-section ≤ 2.5 mm²



LP 5.00/90



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	25	15	15
Clamping range max.	mm ² /AWG	4.0	12	12

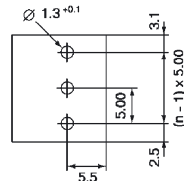
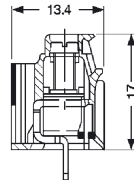
*Overvoltage category III / Pollution severity 3
Additional technical data see page 58

Solder pin length **3.2 mm** **4.5 mm**

Colour					
Poles	Type	Cat. No.	Cat. No.	Qty.	
2	LP 5.00/2/90	1594320000	1696060000	100	
3	LP 5.00/3/90	1594330000	1696070000	100	

LPP 5.00/90

with test point



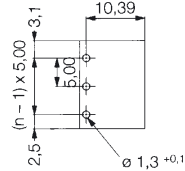
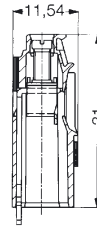
Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	25	15	15
Clamping range max.	mm ² /AWG	4.0	12	12

*Overvoltage category III / Pollution severity 3
Additional technical data see page 58

Solder pin length **3.2 mm** **4.5 mm**

Colour					
Poles	Type	Cat. No.	Cat. No.	Qty.	
2	LPP 5.00/2/90	1594340000	1697140000	100	
3	LPP 5.00/3/90	1594350000	1697150000	100	

LP1N 5.00/90



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	24	15	15
Clamping range max.	mm ² /AWG	4.0	12	12

*Overvoltage category III / Pollution severity 3
Additional technical data see page 58

Solder pin length **3.2 mm** **4.5 mm**

Colour					
Poles	Type	Cat. No.	Cat. No.	Qty.	
2	LP1N 5.00/2	1640870000	1698050000	100	
3	LP1N 5.00/3	1640880000	1698060000	100	

Attention: Customers are advised to ensure support for LP1N on the printed circuit board.

Accessories	Page
Marking	40
Fixing	46
Miscellaneous	46

Accessories	Page
Marking	40
Fixing	46
Miscellaneous	43

Accessories	Page
Marking	40
Fixing	-
Miscellaneous	45

Rated cross-section ≤ 2.5 mm²

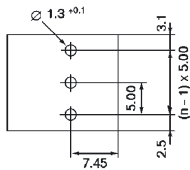
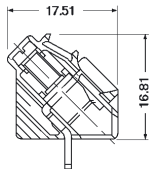
Rated cross-section ≤ 2.5 mm²



LP 5.00/135



with test point



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	25	15	15
Clamping range max.	mm ² /AWG	4.0	12	12

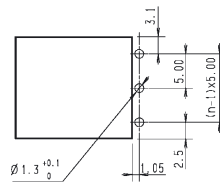
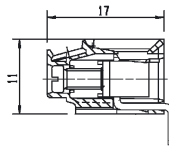
*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

Solder pin length **3.2 mm** **4.5 mm**



Colour				
Poles	Type	Cat. No.	Cat. No.	Qty.
2	LP 5.00/2/135	1595750000	1697180000	100
3	LP 5.00/3/135	1595710000	1697190000	100

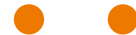


Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	25	15	15
Clamping range max.	mm ² /AWG	4.0	12	12

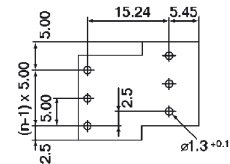
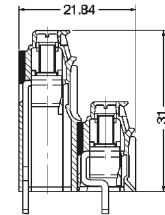
*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

Solder pin length **3.2 mm** **4.5 mm**



Colour				
Poles	Type	Cat. No.	Cat. No.	Qty.
2	LP 5.00/2/180	1761330000	1761350000	100
3	LP 5.00/3/180	1761340000	1761360000	100



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	24	15	15
Clamping range max.	mm ² /AWG	4.0	12	12

*Overvoltage category III / Pollution severity 3

Additional technical data see page 58

Solder pin length **3.2 mm** **4.5 mm**



Colour				
Poles	Type	Cat. No.	Cat. No.	Qty.
4	LP2N 5.00/4	1635160000	1695920000	50
6	LP2N 5.00/6	1625560000	1695930000	50
8	LP2N 5.00/8	1596450000	-	50
10	LP2N 5.00/10	1596490000	-	50
16	LP2N 5.00/16	1596550000	-	20
20	LP2N 5.00/20	1596590000	-	20
24	LP2N 5.00/24	1596630000	-	10
30	LP2N 5.00/30	1596670000	-	10

Accessories	Page
Marking	40
Fixing	-
Miscellaneous	46

Accessories	Page
Marking	40
Fixing	46
Miscellaneous	45

Accessories	Page
Marking	40
Fixing	46
Miscellaneous	45-46

Materials

Insulation material	
Colour 1)	
Temperature range	°C
Flammability class.	UL94
Contact base material	
Contact plating	

System characteristic values

Pitch	mm
Connection method	
Solder pin length	mm
PCB hole diameter	Ømm
Insulation stripping length	mm
Clamping screw	M
Insulation resistance	MΩ
Through resistance	mΩ
Torque	Nm

LP 5.00/5.08

PA 66
orange, black
-20... +100
V-2
Cu-alloy
tin-plated

LPTR 5.08/1

5.00/5.08
screw clamp connection
3.2/4.5
1.3 ^{+0.1}
7.0
3
≥ 10 ³
≤ 1.2
0.5 ...0.6

LPTR 5.08/1

PA 66
orange, black
-20... +100
V-2
Cu-alloy
tin-plated

LPTR 5.08/1

5.08
screw clamp connection
3.2/4.5
1.3 ^{+0.1}
7.0
3
≥ 10 ³
≤ 1.9
0.5 ...0.6

Conductor size

Clamping range	mm ²
"e" solid H05(07) V-U	mm ²
"f" flexible H05(07) V-K	mm ²
"f" with ferrule to DIN 46228/1	mm ²
... with plastic collar to DIN 46228/4	mm ²
Gauge to EN 60999	mm (size)

LP 5.00/5.08

0.13... 4.0
0.5... 4.0
0.5... 2.5
0.5... 2.5
-
2.8 x 2.4 (A3)

LPTR 5.08/1

0.13... 4.0
0.5... 4.0
0.5... 2.5
0.5... 2.5
-
2.8 x 2.4 (A3)

VDE 0110 1.89 rated data

Rated cross-section to EN 60999	mm ²
Rated current 3)	A
for LP and LPP	A
for LPN and LPH	A
for LP3R	A

LP 5.00/5.08

4.0
25
24
22

LPTR 5.08/1

4.0
20
-
-

Overvoltage category / Pollution severity

Rated voltage	V
Impulse voltage	kV

LP 5.00/5.08

III/3	III/2	II/2
250	250	500
4.0	4.0	4.0

LPTR 5.08/1

III/3	III/2	II/2
250	250	500
4.0	4.0	4.0

UL rated data

Rated voltage, industrial	V~
Rated current	A
AWG conductor (field wiring)	

LP 5.00/5.08

300
15
26... 12

LPTR 5.08/1

300
15
26 ...12

CSA rated data

Rated voltage, industrial	V~
Rated current	A
AWG conductor (field wiring)	

LP 5.00/5.08

300
15
26... 12

LPTR 5.08/1

300
15
26 ...12

Application notes

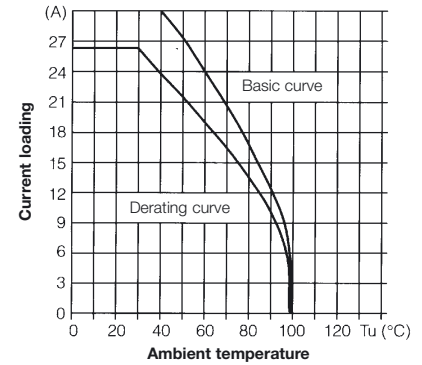
- 1) additional colours on request
- 3) referred to 20°C ambient temperature, rated cross-section and number of poles

LP 5.00/5.08

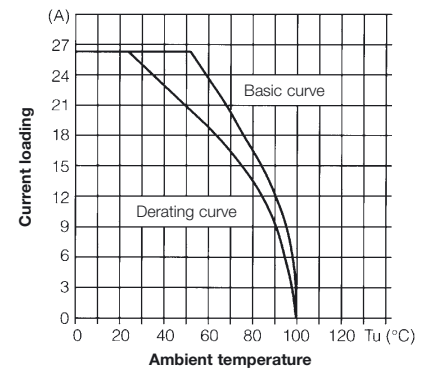
Ordering data: page 23-28

LPTR 5.08/1

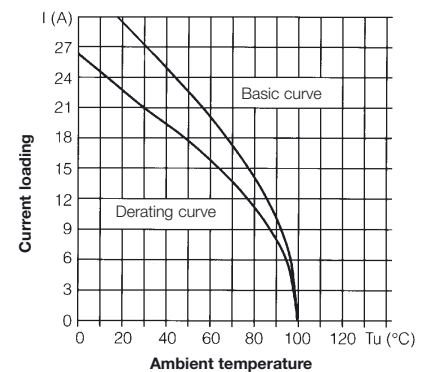
Ordering data: page 28



LP 5.08/6/90 with
Conductor H07V-K2.5 mm²



LP2N 5.08/12/90 with
Conductor H07V-K2.5 mm²



LP3R 5.08/18/90 with
Conductor H07V-K2.5 mm²

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance with VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

Accessories Selection Matrix

		Marking systems	LED holders and marker carrier	Fuse and disconnect elements	Fixing blocks	Cross-connections	Adaptor plates	Fixing plates
Rated cross-section	PCB Terminal Accessories	Page 40-42	Page 43	Page 44	Page 45-46	Page 45	Page 46	Page 46
1.5 mm ²	PM 5.08	KSW 4, KSW 2.5						
	MK 8	KSW 2.5						
	MK 7.5	KSW 2.5				LPA QB		
	LM 3.5 all versions	KSW 4, KSW 2.5						
	LM 5.00 all versions	KSW 4, KSW 2.5						
	LM 5.08 all versions	KSW 4, KSW 2.5						
	TOP1.5GS all versions	KSW 2.5			TOP1.5GS BB			
	LMZF 5.08 all versions	KSW 2.5						
2.5 mm ²	LP 5.08/90	DEK 5	LPA FA, LPA FA BZ, LPA BZ	LPA SI, LPA TR	LP BB	LPA QB	LPZP/90	LPHP
	LP 5.00/90	DEK 5			LP BB		LPZP/90	
	LP 7.50/90	DEK 5			LP BB		LPZP/90	
	LP 7.62/90	DEK 5			LP BB		LPZP/90	LPHP
	LP 10.00/90	DEK 5			LP BB		LPZP/90	
	LP 15.00/90	DEK 5			LP BB		LPZP/90	
	LP2N 5.08	DEK 5	LPA BZ		LP BB	LPA QB	LPZP1N LPZP2.54/90	
	LP2N Pitch 5.00, 7.50, 7.62	DEK 5			LP BB		LPZP1N LPZP2.54/90	
	LP2H 5.08	DEK 5	LPA BZ			LPA QB		
	LP2HR 5.08	DEK 5	LPA BZ			LPA QB		
	LP3R 5.08	DEK 5	LPA BZ		LP BB	LPA QB		
	LPP 5.08/90	DEK 5	LPA FA, LPABZ LPA FA BZ	LPA SI, LPA TR	LP BB	LPA QB	LPZP/90	
	LPP/90 Pitch 5.00, 7.50, 7.62	DEK 5	LPA BZ		LP BB		LPZP/90	
	LP1N 5.08	DEK 5	LPA BZ			LPA QB	LPZP1N	
	LP1N 5.00	DEK 5						
	LP1H 5.08	DEK 5	LPA BZ			LPA QB		
	LP/135 all pitches	DEK 5				LPA QB ¹⁾	LPZP/135	
	LP/180 all pitches	DEK 5			LP BB	LPA QB ¹⁾	LPZP/90	
	LPZF 5.08/180	KSW 2.5						
	LPTR 5.08/1/90	DEK 5			LP BB		LPZP/90	
4.0 mm ²	LL 9.5	KSW4, KSW 2.5						
	TOP4GS/90 all pitches	S10						
	TOP4GS/180 all pitches	S10						
10.0 mm ²	LU/90 all pitches	KSW4, KSW2.5, DEK 5						
	GSE 10	KSW4, KSW2.5, DEK 5						
25.0 mm ²	LX 15.00	KSW4, KSW2.5, DEK 5						
Accessories		LPA FA BZ, LPA BZ	WS 10/5 a. WS 12/5					
	LPA SI	DEK 5						
	LPA TR	DEK 5, WS 3						

1) only pitch 5.08 mm

Dekafix System DEK 5



Horizontal printing



Strip mounting



Vertical printing



Individual tag mounting

The Dekafix marking system can be used with the **LX 15.00**, **LU 10.16** and **GSE 10** as well as with the **System LP** (with the exception of LPZF and its accessories).

Dekafix is supplied in packs of 10 cards with 50 tags per card. The standard colour is white with black text.

Technical data

Material	Polyamide
Temperature range	-40°C ... +100°C
Flammability class	UL 94 V-2
Components	silicone-free halogens below limit of detection
Assembly	Strip or individual tag assembly depending on stackability of the terminals
Print	Standard or custom, print colour black
Smudge resistance	Smudge resistant to DIN IEC 50
Custom print	From customer's list or data exchange via disk or modem
Colour	Available in colours of the international resistance code
max. digits DEK 5	3 horizontal, 3 vertical up to 2.5 mm type size

Custom print (cat. no. with colour code for ordering !)

Colour	Cat. No.	Colour	Cat. No.	Colour	Cat. No.	Qty. 500
● black	1609810000	● yellow	0490791687	● violet	0490791689	
● brown	1609810000	● green	0490791688	● grey	1609810000	
● red	0490791686	● blue	1609810000	○ white	0490790000	
● orange	1609810000					

Neutral

Colour	Cat. No.	Colour	Cat. No.	Colour	Cat. No.	Qty. 500
● black	0473391694	● yellow	1609801687	● violet	0473391689	
● brown	0473391692	● green	0473391688	● grey	0473391691	
● red	1609801686	● blue	0473391693	○ white	0473360000	
● orange	0473391690					

Ordering data

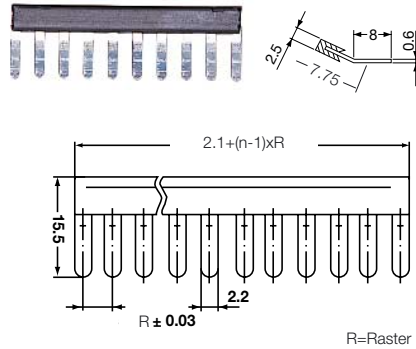
(only horizontal)	Print	Cat. No.
Printing	A	0522761021
individual letters	B	0522761022
	C	0522761023
	D	0522761024
E	0522761025	
F	0522761026	
G	0522761027	
H	0522761028	
I	0522761029	
J	0522761030	
K	0522761031	
L	0522761032	
M	0522761033	
N	0522761034	
O	0522761035	
P	0522761036	
Q	0522761037	
R	0522761038	
S	0522761039	
T	0522761040	
U	0522761041	
V	0522761042	
W	0522761043	
X	0522761044	
Y	0522761045	
Z	0522761046	

	Print	Cat. No. horizontal	Cat. No. vertical
Printing 50 digits in series	1 ... 50	0473460001	0473560001
	51 ... 100	0473460051	0473560051
	to	The last 3 digits of the Cat No. are the first printed number	
	951 ... 999	0473460951	0473560951
Printing 10 digits in series	1 ... 10	0523060001	0460660001
	11 ... 20	0523060011	0460660011
	bis	Die letzten 3 Zahlen der Best.-Nr zeigen die erste Druckzahl	
	91 ... 100	0523060091	0460660091
Beschriftung einzelne Zahlen	1	0522660001	-
	2	0522660002	-
	to	The last 3 digits of the Cat No. are the first printed number	
	200	0522660200	-
Printing various symbols	L1, L2, L3, N, PE	0354361187	-
Printing individual symbols	Plus symbol +	0576261198	-
	Minus symbol -	0576261199	-
	PE	-	0157261187
	L1	0522361075	-
	L2	0522361076	-
	L3	0522361077	-
	Earth symbol (ground)	0576261202	0157261202
	Earth symbol in circle	0576261203	0157261203
	Alternating current ~	0576261215	-
Blank, white (Card)	-	1609801044	1609801044
Custom print (please state print and direction with order)		0490760000	0490760000
Coloured Dekafix blank (please state colour with order)		0473390000	0473390000
Coloured Dekafix printed = custom print (please state colour and print with order)		0490790000	0490790000

Screwdriver



Cross-Connections



The cross-connection combs permit post-assembly potential distribution across several poles and eliminates the need for time-consuming bridging. The use of cross-connection combs reduces the possible cable size to the next lowest wire gauge. Cross-connections are available for various pitches and poles. Pole numbers and pitches not available can be made directly by the customer by snipping off excess cross-connections from the comb using a suitable tool.

Fixing Block for TOP's



For modular assembly of the TOP1.5GS PCB terminals there is a fixing set available for the PCB. This set consists of a plastic block and the appropriate self-tapping screw (2.9 x 19 mm). It can be used with both the 90° and the 180° versions.

Ordering data

Type	Clamping screw	Product	Cat. No.
SDI	M2	LM3.5	9008370000
0.4 x 2.5 x 75			
SD	M2.5	LM 5.0x	9008330000
0.6 x 3.5 x 100			
		TOP1.5GS	
		LMT 5.08	
		PM 5.08	
		MK 8	
		MK 7.5	
SD	M3	System LP	9008400000
0.8 x 4.0 x 100			
		TOP4GS	
SDI	M4	LU 10.16	9008420000
1.2 x 6.5 x 150			
		GSE 10	
SD	M5	LX 15.00	9008350000
1.0 x 5.5 x 125			

Ordering data

Poles	Pitch	Type	Cat. No.	Qty.
2	5.08 mm	LPA QB2	1472200000	50
3	5.08 mm	LPA QB3	1472300000	50
4	5.08 mm	LPA QB4	1472400000	50
10	5.08 mm	LPA QB10	1472500000	20
17	5.08 mm	LPA QB17	1584770000	20
24	5.08 mm	LPA QB24	1472600000	20

Ordering data

Type	Cat. No.	Qty.
TOP1.5GS BB OR	1539860000	20

Insertion Tool

Spring displacement tool for tension clamp PCB terminals



SD 0.6 x 3.5 x 100 (DIN 5264-A)

To displace the tension clamp you do not need a special tool. The channel on the pcb terminal will take a standard screwdriver 0.6 x 3.5 x 100 according to DIN 5264-A with a flat blade.

Bestelldaten

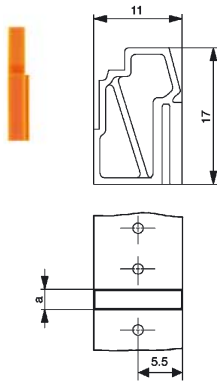
Type	can be used for	Cat. No.	Qty.
SD 0.6 x 3.5 x 100	all LMZF 5.08 and LPZF 5.08	9008330000	10

Ferrules / Tools

Weidmueller supplies a comprehensive range of ferrules, including for example twin ferrules for attaching two wires to one cable entry.

For more information also ask for our sectional catalogue "Tools" (cat. no. 5629030000), or consult your nearest Weidmueller Sales Engineer or Representative. They will be only too pleased to assist.

Adaptor Plates LPZP/90



Thickness 2.54 mm (a)

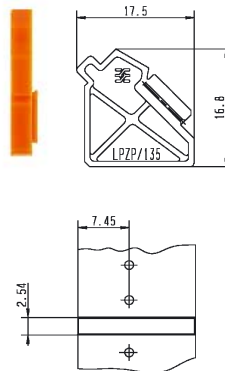
Type	Cat. No.	Qty.
LPZP 2.54/90 OR	1747480000	100

Thickness 1.27 mm (a)

Type	Cat. No.	Qty.
LPZP 1.27/90 OR	1747490000	100

Please see processing notes and application examples on page 47-48.

Adaptor Plates LPZP/135

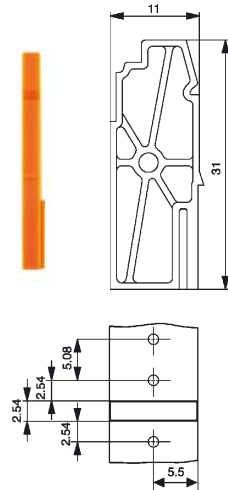


Thickness 2.54 mm

Type	Cat. No.	Qty.
LPZP 2.54/135 OR	1753740000	100

Please see processing notes and application examples on page 47-48.

Adaptor Plates LPZP1N

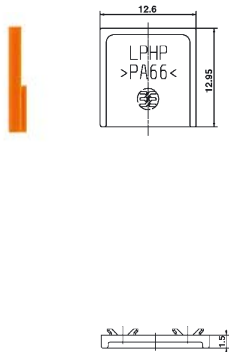


Thickness 2.54 mm

Type	Cat. No.	Qty.
LPZP1N 2.54 OR	1747470000	100

Please see processing notes and application examples on page 47-48.

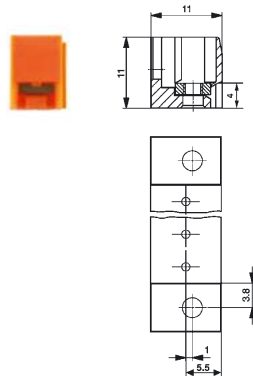
Fixing Plates LPHP



Type	Cat. No.	Qty.
LPHP	1753440000	100

Please see processing notes and application examples on page 47-48.

Fixing Blocks LPBB



Type	Cat. No.	Qty.
LPBB MU OR *	1747530000	100
LPBB OR **	1747540000	100

Please see processing notes and application examples on page 47-48.

* Square nut is inserted. Clamping screw M3 is not included in delivery.

** Square nut M3 DIN 562 and clamping screw M3 are not included in delivery.