

Klippon



Section T1



Terminals for TS32 Mounting Rail



Modular Systems

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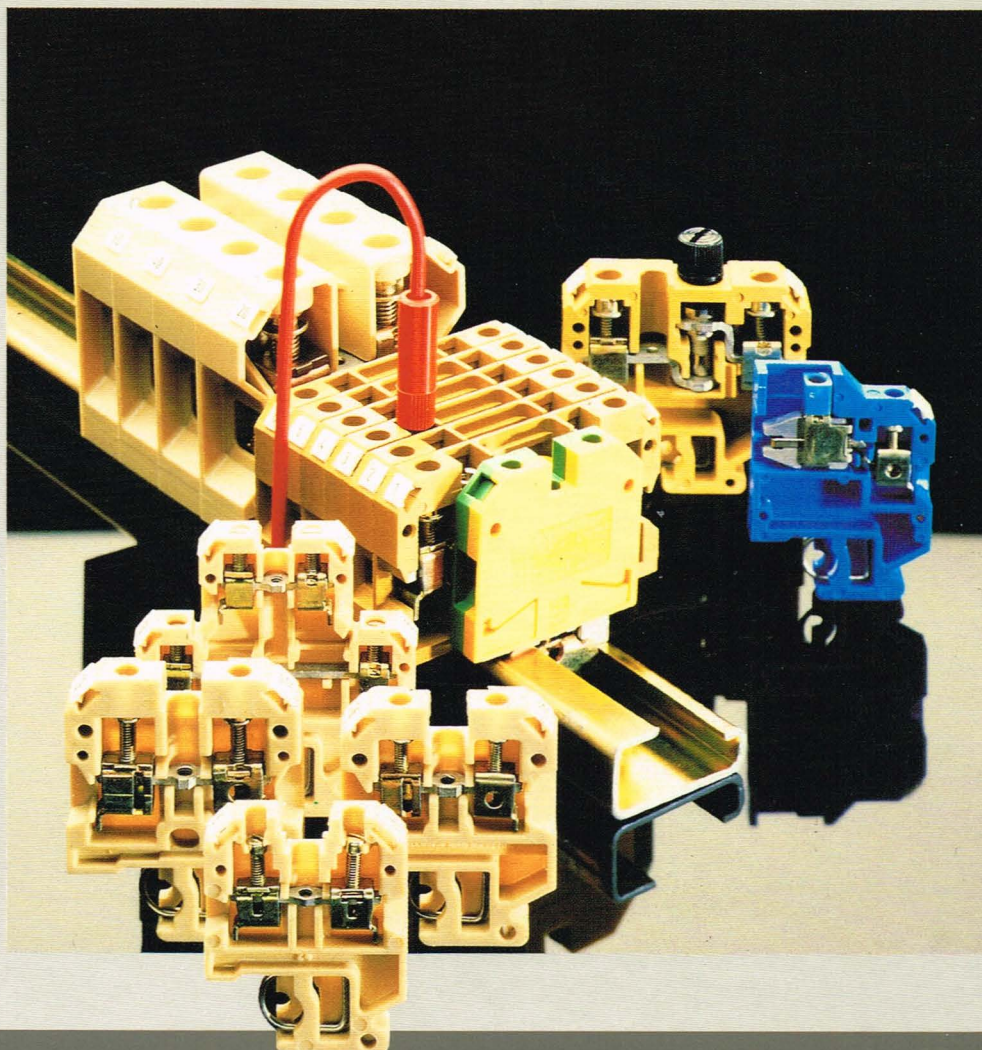
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Klippon a Company Profile

Klippon celebrated its 25th Anniversary in 1984, after being established at Sheerness in 1959 with a staff of 3 and a first week's turnover of £40. Today, with a staff of over 400 and a turnover in millions, Klippon is acknowledged worldwide as a leading manufacturer of electrical and electronic terminals. The total product range now embraces thousands of products and includes connectors, interface modules, enclosures and tools in addition to terminals. The expansion in both turnover and product range testifies to the attention which is paid to the continuing demand for new products, service and quality necessary to meet customer needs and the industries' changing requirements. This has culminated in Klippon's total commitment to a Just-In-Time manufacturing policy.

Quality has always been considered to be a very important aspect which is reflected in our worldwide approvals. It starts with design and is maintained through to the finished, tested product. This is possible because the manufacturing facility at Sheerness includes; our own design drawing office, the manufacture of tools for our own plastic moulding and metal forming machines, metal finishing, assembly and test, all overseen by Quality Assurance to BS 5750 Part 2.

Terminal boxes were introduced to the range in 1968 and many are manufactured to meet BASEEFA requirements. Overall expansion of the Company together with the demand for enclosures which was generated by the growth of North Sea Oil, led to the opening of a new factory in 1982. This new factory is dedicated to the complete production of enclosures and incorporates some of the latest production techniques such as flow line robotic welding and automatic powder paint spraying. Continued expansion led, in 1986, to the opening of a new factory extension on the Power Station Road site to provide a further 30,000 sq. ft. of space plus an additional 4,500 sq. ft. of warehousing.

Klippon is a member of the Weidmüller group of companies which, worldwide, includes 21 companies (8 with manufacturing facilities) in 15 different countries.



Terminal Box factory



Main site



New factory extension

A member of the

Weidmüller 

group of companies.



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Contents

Feed-through Screw Clamp type SAK	Page T1/4
Feed-through Double Deck types DK 4, DK 4Q	Page T1/8
Feed-through Top Entry type R2.5	Page T1/10
Feed-through Spring Loaded type RSF	Page T1/11
Feed-through High Current type SAKH	Page T1/12
Feed-through Distribution type KB	Page T1/13
Feed-through High Current type SAKG	Page T1/14
Stud Connection type ST 5	Page T1/22
Thermocouple type SAK	Page T1/26
Push-on Tabs types AST, SAK 4S	Page T1/29
Push-on Tabs Double Deck type DK 4S	Page T1/34
Wire Wrap/*Termipoint type SAKT	Page T1/36
Wire Wrap Double Deck type DK 4T	Page T1/38
Solder Connection type SAK 2.5L	Page T1/40
Screwless type OK	Page T1/46
Neutral Disconnect type NT	Page T1/48
Earth type EK	Page T1/50
Disconnect Lever types SAKR, DK 4T	Page T1/54
Disconnect Plug types SAKC, RSF 2	Page T1/56
Disconnect Slide Link types SAKA, SAKT	Page T1/59
Disconnect Feed-through type SAKB	Page T1/66
Fuse types ASK 1, KSK, SAKS	Page T1/67
Alarm Fuse type AFT	Page T1/74
Fuse Cartridges	Page T1/72 & 77

Dimensions — Unless otherwise stated all dimensions are in mm.

* ® Termipoint is a registered trade name of AMP Inc.

Every care has been taken to ensure the accuracy of our catalogue data. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards. Goods are supplied in accordance with our Terms and Conditions of Sale.

Feed-through Terminals
Type SAK

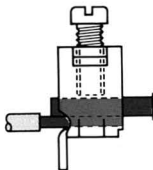
The SAK Series of feed-through terminal blocks are employed for the connection of various conductor sizes. The bare conductor is inserted directly into the yoke with no further preparation, and the tightening of the screw effects a vibration proof connection.

Most terminal types are available in either melamine moulding material or polyamide 6.6 and are designed to be mounted directly on assembly rail TS32 to EN50035. (BS5825)

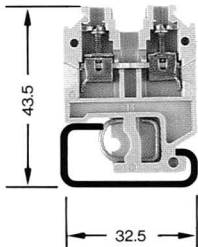
Cross connection can be achieved using standard QL2-QL10 jumper bars fitted in the centre of each terminal block. Switchable connections can be achieved using the switchable link VL2.

For additional safety covers type AD may be fitted with a plastic screw on top of the terminal block.

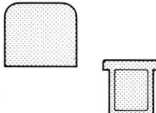
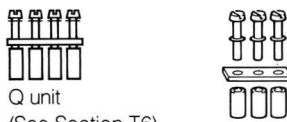
Screw Clamp
Connections



SAKD 2.5N
500V 20A

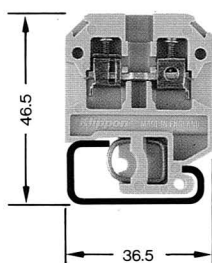


Thickness 5mm

Technical Data			
Conductor size	Solid (mm²)	0.22–2.5	
	Stranded (mm²)	0.22–2.5	
Insulation stripping length	(mm)	9	
Ordering Data		Cat. No.	
Moulding material	Polyamide		021556
When ordering EEx'e' and Ex'N'	Polyamide		021558
terminals, add suffix 'e' or 'N' to the catalogue number	Melamine ●		
	Melamine ●		
Approvals			
All Approvals are listed in Approvals Guide		BASEEFA – Ex CEEB     	
Terminal Rail (2m)		Type	Cat. No.
	Steel	TS32	012280
	Steel (M6 Slots)	TS32	067610
Locking pin (1m) — optional	Steel	SST3	015270
End Bracket (thickness mm)		EWK1 (8.5)	020616
			
End Plate (thickness mm)			
	Polyamide	AP (1.5)	015096
	Polyamide	AP (1.5)	015098
	Melamine ●		
	Melamine ●		
Partition (thickness mm)			
	Polyamide	TW (0.5)	019186
	Polyamide	TW (0.5)	019188
	Melamine ●		
	Melamine ●		
	Resin bonded paper	TW (0.5)	030750
Small partition	Polyamide	TSch 3	036686
Cross Connections			
	2 way	QL 2	021580
	3 way	QL 3	021590
	4 way	QL 4	021600
	10 way	QL 10	033800
	Sleeve	VH 8.5	026690
	Screw	BS (M2.5 x 14)	036770
	Washer	Captive on Screw	
	Bi-pole plug		
Switching Link			
	2 way		
	Sleeve		
	Screw		
	Washer		
Test Plug			
	Plug	PS (2.3Ø)	018040
	Plug bolt	StB 8.5	021570
Warning Label			
	Label		
	Plastic screw		
Cover (1m)			
	Transparent cover	ADP 1	048520
	Support bracket	HP 1	048556
Marking Tags			
All marking systems are shown in Section T6		DEKAFIX — SECTION T6	

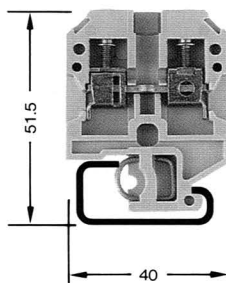
For additional accessories see Section T6

SAK 2.5 750V 27A



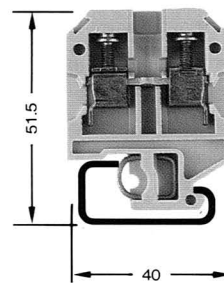
Thickness 6mm

SAK 4 750V 36A



Thickness 6.5mm

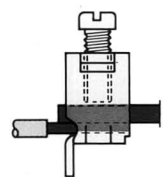
SAK 6N 750V 47A



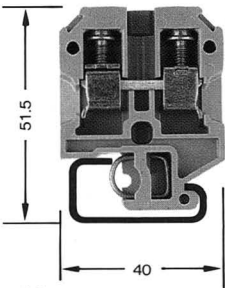
Thickness 8mm

0.5-4		0.5-6		0.5-10	
0.5-4		0.5-4		0.5-6	
9		12		12	
	Cat. No.		Cat. No.		Cat. No.
	027966		012836		019326
	027968		012838		019328
	027962		012832		019322
	027967		012837		019327
BASEEFA-Ex CEBB      					
Type	Cat. No.	Type	Cat. No.	Type	Cat. No.
TS32	012280	TS32	012280	TS32	012280
TS32	067610	TS32	067610	TS32	067610
SST 3	015270	SST 3	015270	SST 3	015270
EWK1 (8.5)	020616	EWK1 (8.5)	020616	EWK1 (8.5)	020616
AP (1.5)	027956	AP (1.5)	011796	AP (1.5)	011796
AP (1.5)	027958	AP (1.5)	011798	AP (1.5)	011798
AP (1.5)	027952	AP (1.5)	011792	AP (1.5)	011792
AP (1.5)	027957	AP (1.5)	011797	AP (1.5)	011797
TW (1.5)	030286	TW (1.5)	013016	TW (1.5)	013016
TW (1.5)	030288	TW (1.5)	013018	TW (1.5)	013018
TW (2.5)	030282	TW (2.5)	013012	TW (2.5)	013012
		TW (2.5)	013017	TW (2.5)	013017
TW (1.0)	029710	TW (0.5)	019710	TW (0.5)	019710
QL 2	015590	QL 2	013060	QL 2	019430
QL 3	015600	QL 3	013070	QL 3	019440
QL 4	015610	QL 4	013080	QL 4	019450
QL 10	033810	QL 10	033820	QL 10	033830
VH 8	026670	VH 13.5	024850	VH 12	024900
BS (M3 x 15)	035900	BS (M3 x 20)	030300	BS (M3 x 20)	030300
Captive on screw		Captive on screw		Captive on screw	
DQS2 (See Section T6)		QS2	021270	QS2	027096
		VL 2	019700	VL 2	019700
		VH 19	028510	VH 19	028510
		BS (M3 x 25)	029250	BS (M3 x 25)	029250
		SS	016440	SS	016440
PS (2.3Ø)	018040	PS (2.3Ø)	018040	PS (4Ø)	029960
StB 8.5	021570	StB 8.5	021570	StB 14	016990
AD 4	037560	AD 4	037610	AD 4	037600
BSK (M3 x 22)	012890	BSK (M3 x 22)	012890	BSK (M3 x 22)	012890
ADP 1	048520	ADP 2	048530	ADP 2	048530
HP 1	048556	HP 2	048566	HP 2	048566
DEKAFIX — Section T6		DEKAFIX — Section T6		DEKAFIX — Section T6	

Feed-through Terminals
Type SAK
Screw Clamp Connections

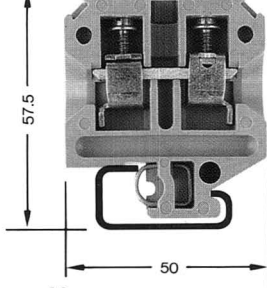


SAK 10
750V 65A



Thickness 10mm

SAK 16
750V 87A



Thickness 12mm

Technical Data

Conductor size	Solid (mm ²)	2.5-16	4-16
	Stranded (mm ²)	2.5-10	6-16
Insulation stripping length	(mm)	12	16

Ordering Data

		Cat. No.	Cat. No.
Moulding material	Polyamide ●	011006	027106
When ordering EEx'e' and Ex'N' terminals, add suffix 'e' or 'N' to the catalogue number	Polyamide ●	011008	027108
	Melamine ●	011002	027102
	Melamine ●	011007	

Approvals

All Approvals are listed in Approvals Guide	BASEEFA – Ex	UL	N	D	S	UL	BASEEFA – Ex	UL	N	S	UL
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Terminal Rail (2m)

	Type	Cat. No.	Type	Cat. No.
	Steel	TS 32	TS 32	012280
	Steel (M6 Slots)	TS 32	TS 32	067610

Locking pin (1m) — optional	Steel	SST 3	SST 3	015270
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End Bracket (thickness mm)

	EWK 1 (8.5)	020616	EWK 2 (15)	019936

End Plate (thickness mm)

	Polyamide ●	AP (1.5)	011796	AP (1.5)	027116
	Polyamide ●	AP (1.5)	011798	AP (1.5)	027118
	Melamine ●	AP (1.5)	011792	AP (3)	027112
	Melamine ●	AP (1.5)	011797		

Partition (thickness mm)

	Polyamide ●	TW (1.5)	013016	TW (1.5)	030366
	Polyamide ●	TW (1.5)	013018	TW (1.5)	030368
	Melamine ●	TW (2.5)	013012	TW (3)	028112
	Melamine ●	TW (2.5)	013017		
	Resin bonded paper	TW (0.5)	019710		

Cross Connections

	2 way	QL 2	047030	QL 2	047070
	3 way	QL 3	047040	QL 3	047080
	4 way	QL 4	047050	QL 4	047090
	10 way	QL 10	047060	QL 10	047100
	Sleeve	VH 12	024900	VH 12	024900
	Screw	BS (M3 x 20)	030300	BS (M3 x 20)	030300
	Washer	Captive on Screw		Captive on Screw	
	Bi-pole plug	QS 2	027086	QS 2	027076

Switching Link

	2 way	VL 2	013590	VL 2	013580
	Sleeve	VH 19	028510	VH 19	028510
	Screw	BS (M3 x 25)	029250	BS (M3 x 25)	029250
	Washer	SS	016440	SS	016440

Test Plug

	Plug	PS (4Ø)	029960	PS (4Ø)	029960
	Plug bolt	StB 14	016990	StB 14	016990

Warning Label

	Label	AD 4	037580	AD 4	037580
	Plastic screw	BSK (M3 x 22)	012890	BSK (M3 x 22)	012890

Cover (1m)

	Transparent cover	ADP 2	048530	ADP 3	048540
	Support bracket	HP 2	048566	HP 3	048576

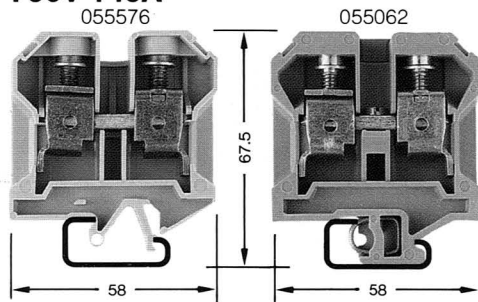
Marking Tags

All marking systems are shown in Section T6	DEKAFIX — Section T6	DEKAFIX — Section T6
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For additional accessories see Section T6

SAK 35N

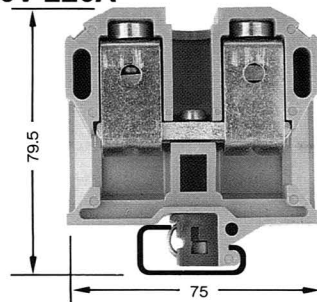
750V 145A



Thickness 16mm

SAK 70

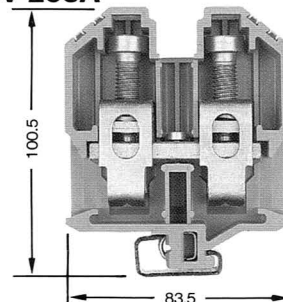
750V 220A



Thickness 22mm

SAK 95

750V 258A



Thickness 28mm

2.5-50		16-70		10-95	
2.5-35		25-70		10-95	
20		24		30	
	Cat. No.		Cat. No.		Cat. No.
	055066				
with Hex-socket screws	055576				
	055062	034082			055052
with Hex-socket screws	055572				
BASEEFA - Ex					
Type	Cat. No.	Type	Cat. No.	Type	Cat. No.
TS 32	012280	TS 32	012280	TS 32	012280
TS 32	067610	TS 32	067610	TS 32	067610
SST 3	015270	SST 3	015270	SST 3	015270
EWK 2 (15)	019936	EWK 2 (15)	019936	EWK 2 (15)	019936
AP (1.5)	030366				
AP (3.0)	030362	AP (4)	034092	AP (3)	055092
TW (1.5)	030436				
TW (3)	030432				
QL 2	056490	QL 2	034530	QL 2	055120
QL 3	056500	QL 3	016700		
QL 4	056510				
QL 10	056520				
VH 17	026700	VH 30.5	034550	VH 35	055110
BS (M4 x 35)	026710	BS (M5 x 45)	034560	BS (M5 x 50)	063020
SS	013640	SS	034610		
PS (4Ø)	029960	PS (4Ø)	029960	PS (4Ø)	029960
StB 14	016990	StB 16	038540	StB 16	038540
AD 4	065640	AD 3	066900		
BSK (M4 x 32)	012910	BSK (M5 x 45)	034440		
ADP 3	048540	ADP 3	048540	ADP 3	048540
HP 3	048576	HP 3	048576	Fits directly onto terminal	
DEKAFIX — Section T6		DEKAFIX — Section T6		DEKAFIX — Section T6	

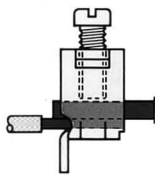
Double Deck Terminals
Type DK 4

Double deck terminals permit high density wiring for small overall width using them in place of the standard 6mm thickness terminal, it is possible to double the number of conductors without lengthening the overall assembly.

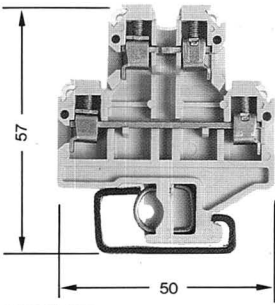
DK4QV is cross-connected internally to give four clamping points of the same polarity.

The new style Double Deck Terminals DK4Q and DK4QV provide the facility to cross connect top and bottom current bars of adjacent terminals individually.

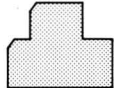
Screw Clamp
Connections



DK 4
440V 27A

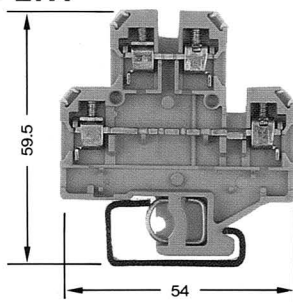


Thickness 6mm

Technical Data			
Conductor size	Solid (mm ²)	0.22-4	
	Stranded (mm ²)	0.22-4	
Insulation stripping length (mm)		9	
Ordering Data			Cat. No.
Moulding material	Polyamide		035546
When ordering EEx'e' and Ex'N' terminals, add suffix 'e' or 'N' to the catalogue number	Polyamide		035548
Approvals		BASEEFA-Ex CEBB      	
All Approvals are listed in Approvals Guide			
Terminal Rail (2m)		Type	Cat. No.
	Steel	TS32	012280
	Steel (M6 Slots)	TS32	067610
Locking pin (1m) — optional	Steel	SST3	015270
End Bracket (thickness mm)			
		EWK 1 (8.5)	020616
End Plate (thickness mm)			
	Polyamide	AP (1.5)	035926
	Polyamide	AP (1.5)	035928
Partition (thickness mm)			
			
Small partition		TW (2)	383350
	Resin bonded paper	TW (0.5)	047470
	Polyamide	TSch 4	036336
Cross Connections			
 Q unit (See Section T6)	2 way	QL 2	029720
	3 way	QL 3	029730
	4 way	QL 4	029740
	10 way	QL 10	033920
	Sleeve	VH 5	029680
	Screw	BS (M2.5 x 11/5)	040010
Switching Link			
	2 way	VL 2	044670
	Sleeve	VH 10	044660
	Screw	BS (M2.5 x 15/5.5)	036770
Test Plug			
	Plug	PS (2.3Ø)	018040
	Plug bolt	StB 8.5	021570
Screen Lug			
			
Warning Label			
	Label	AD 4	037560
	Plastic screw	BSK (M2.5 x 18)	030330
Marking Tags			
All marking systems are shown in Section T6		DEKAFIX — Section T6	

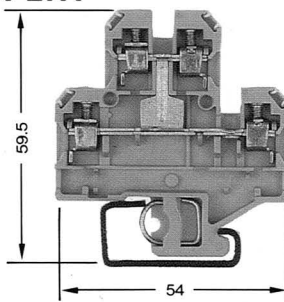
For additional accessories see Section T6

DK4Q
440V 27A



Thickness 6mm

DK4QV
440V 27A



Thickness 6mm

0.22-4
0.22-4

9

Cat. No.

059006

059008

0.22-4
0.22-4

9

Cat. No.

059026

059028

BASEEFA - Ex

BASEEFA - Ex

Type **Cat. No.**

TS32 012280

TS32 067610

SST3 015270

EWK1 (8.5) 020616

AP (1.5) 063136

AP (1.5) 063138

TW (0.5) 047470

TSch 6 019026

QL 2 029720

QL 3 029730

QL 4 029740

QL 10 033920

VH 5 029680

BS (M2.5 x 11/5) 040010

Type **Cat. No.**

TS32 012280

TS32 067610

SST3 015270

EWK1 (8.5) 020616

AP (1.5) 063136

AP (1.5) 063138

TW (0.5) 047470

TSch 6 019026

QL 2 029720

QL 3 029730

QL 4 029740

QL 10 033920

VH 5 029680

BS (M2.5 x 11/5) 040010

VL 2 044670

VH 10 044660

BS (M2.5 x 15/5.5) 036770

PS (2.3Ø) 018040

StB 8.5 021570

LS 2.8 105640

AD 4 037560

BSK (M2.5 x 18) 030330

DEKAFIX — Section T6

VL 2 044670

VH 10 044660

BS (M2.5 x 15/5.5) 036770

PS (2.3Ø) 018040

StB 8.5 021570

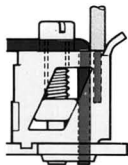
LS 2.8 105640

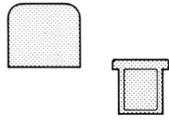
AD 4 037560

BSK (M2.5 x 18) 030330

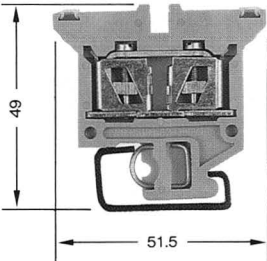
DEKAFIX — Section T6

Feed-through Terminal
Type R2.5
Screw Clamp Connections



Technical Data			
Conductor size	Solid (mm²)	0.5-2.5	
	Stranded (mm²)	0.5-2.5	
Insulation stripping length		(mm)	14
Ordering Data		Cat. No.	
Moulding material		Polyamide	034756
When ordering EEx'e' and Ex'N' terminals, add suffix 'e' or 'N' to the catalogue number			
Approvals			
All Approvals are listed in Approvals Guide		RU (N) (D) (S)	
Terminal Rail (2m)		Type	Cat. No.
	Steel	TS 32	012280
	Steel (M6 Slots)	TS 32	067610
Locking pin (1m) — optional		Steel	SST 3
End Bracket (thickness mm)			015270
		EWK 1(8.5)	020616
End Plate (thickness mm)			
	Polyamide	AP (1.5)	035266
Partition (thickness mm)			
	Resin bonded paper	TW (2.0)	060700
	Polyamide	TSch 1	031916
Small partition			
Cross Connections			
	2 way	QL 2	029720
	3 way	QL 3	029730
	4 way	QL 4	029740
	10 way	QL 10	033920
	Sleeve	VH 5	029680
	Screw	BS (M2.5 x 11/5)	040010
Q unit (See Section T6)			
Test Plug			
	Plug	PS (2.3Ø)	018040
	Plug bolt	StB 8.5	021570
Marking Tags			
All marking systems are shown in Section T6		DEKAFIX — Section T6	

R2.5 Top Entry Terminal
440V 27A



Thickness 6mm

Feed-through Terminals
Type RSF

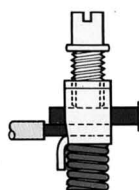
Spring loaded terminals

These spring loaded terminals were designed specifically to meet the stringent requirements of C.E.G.B. Category 1 terminals as specified in ESI 12-1 (new draft ESI 50-18).

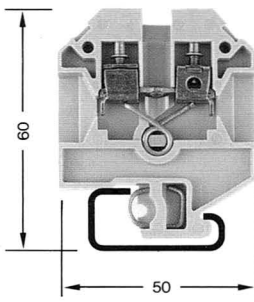
The clamping yokes are type 'B' to ESI 12-1 i.e. Screw Clamp/spring loaded insertion type, to accommodate two hooked bladed crimp terminals to ESI 12-2. The hook blade locates in the slots in the current bar behind the Screw Clamp, the second blade locates on the underside of the clamp.

NOTE: Stripping lengths given are for direct entry conductors, whereas with Hook Bladed crimps the stripping length should be according to the crimp manufacturers recommendations.

Screw Clamp Connections (spring loaded)

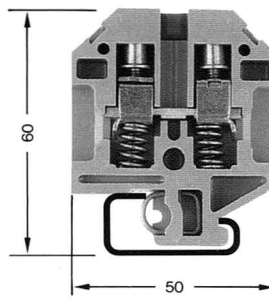


RSF 3 500V 36A



Thickness 8mm

RSF 1 600V 50A



Thickness 11mm

Technical Data

Conductor size	Solid (mm²)	0.5–4	0.5–10
	Stranded (mm²)	0.5–4	0.5–10

Insulating stripping length (mm)	12	12
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Ordering Data

		Cat. No.	Cat. No.
Moulding material	Polyamide	049756	
When ordering EEx'e' and Ex'N' terminals, add suffix 'e' or 'N' to the catalogue number	Melamine		027032

Approvals

All Approvals are listed in the Approvals Guide	BASEEFA – Ex CEBB	BASEEFA – Ex CEBB
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Terminal Rail (2m)

	Type	Cat. No.	Type	Cat. No.
	Steel	TS 32	TS 32	012280
	Steel (M6 Slots)	TS 32	TS 32	067610

Locking pin (1m) — optional	Steel	SST 3	SST 3	015270
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End Bracket (thickness mm)



	EWK 1 (8.5)	020616	EWK 1 (8.5)	020616
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End Plate (thickness mm)



Polyamide	AP (3)	027046		
Melamine			AP (3)	027042

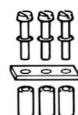
Partition (thickness mm)



Polyamide	TW (1.5)	387796		
Resin bonded paper	TW (2)	383350	TW (2)	383350
Resin bonded paper	TW (0.5)	047470	TW (0.5)	047470
Polyamide	TSch 1	031916		

Small partition

Cross Connections



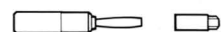
2 way	QL 2	019430	QL 2	026740
3 way	QL 3	019440	QL 3	026750
4 way	QL 4	019450	QL 4	026760
10 way	QL 10	033830	QL 10	034170
Sleeve	VH 13.5	024850	VH 17.5	028520
Screw	BS (M3 x 20)	030300	BS (M3 x 25)	029250
Washer			SS	016440

Switching Link



2 way	VL 2	052840
Sleeve	VH 27	030940
Screw	BS (M3 x 35)	030980

Test Plug



Plug	PS (2.3Ø)	018040	PS (4Ø)	029960
Plug bolt	StB 14	016860	StB 18	028650

Cover (1m)



Transparent cover	ADP 2	048530	ADP 2	048530
Support bracket	HP 2	048566	HP 2	048566

Marking Tags

All marking systems are shown in Section T6	DEKAFIX — Section T6	DEKAFIX — Section T6
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A technical diagram of a bolted joint. A bolt with a hexagonal head is shown passing through a rectangular plate. A lock washer, which is a small, rectangular, split-ring component, is positioned between the bolt head and the plate. The lock washer has a split design, allowing it to be compressed around the bolt. The bolt is tightened, compressing the lock washer against the plate. The lock washer is shown in a cross-sectional view, highlighting its split design and how it fits around the bolt.



Technical drawing of the front view of the 1000 Series 1/2" component. The drawing shows a rectangular body with a central slot and a smaller rectangular feature on the right side. Dimension lines indicate a height of 76.5 and a width of 58.

T1/12