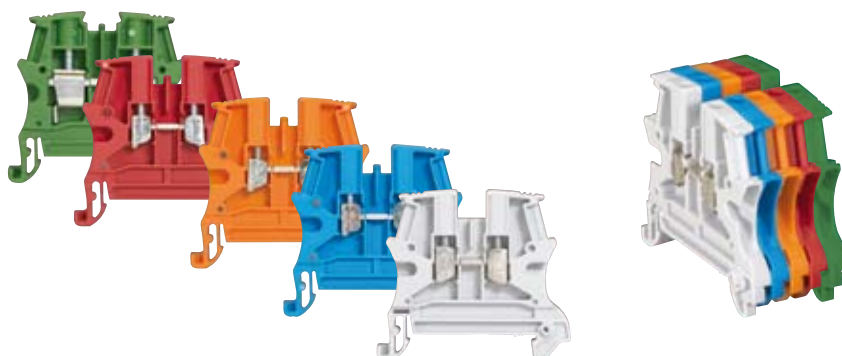


Viking 3 - Screw connection Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78


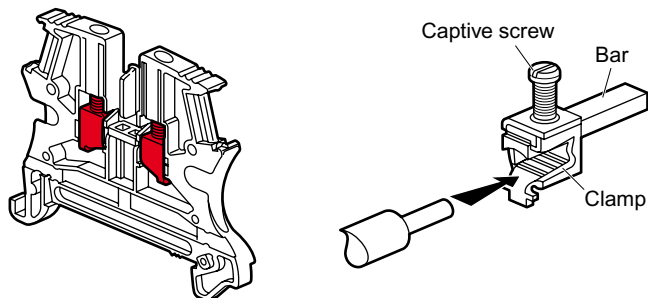
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4. Technical characteristics	2
5. Dimensions	4
6. Accessories	5

1. GENERAL CHARACTERISTICS

Viking 3 terminal blocks provide the electrical connection between two flexible or rigid copper conductors.

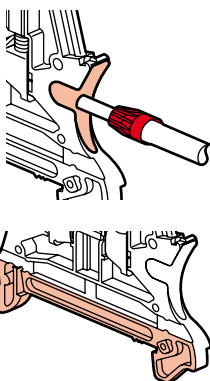


- Insulating polyamide body,
 - Tin-coated brass bar ensuring optimum contact quality,
 - Galvanized steel screws and clamps for an excellent resistance to corrosion.
- A locking pin on the insulating body holds the Viking 3 blocks together, making them easier to handle and contributing to perfect alignment on the rail. Blocks can still be fitted or taken apart without having to remove adjacent blocks.

Conductors are easy to insert due to the ergonomic shape of their entry system.

Starfix cabling ferrules provide an equipotential link for all the strands of a flexible conductor.

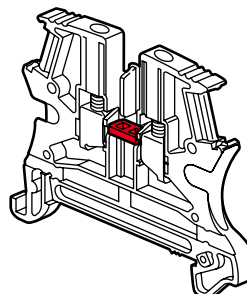
The base enables blocks to be fitted on 3 types of rail.



			
	—	EN 60715	
Thickness (mm)	1.5	1	2.2
Depth (mm)	15	7.5	15

Blocks have two marking areas on each level.

Up to a pitch of 8 mm, blocks have two areas for screwless, equipotential bridging combs with automatic insertion.



Terminal block colours depend on circuit type:

- Grey for standard circuits,
- Blue for neutral conductors,
- Orange for circuits not broken by the master isolating device,
- Red for specific circuits (safety, protected, etc.),
- Green for protection circuits sets equivalent to Class II.

ATEX

Refer to the specific technical data sheet regarding use in explosive atmospheres.

2. RANGE

Cross-section according to IEC EN 60947-7-1.

2.1 Blocks with 1 connection - 1 entry/1 outlet

Cat. Nos	Colour	Nominal cross-section (mm²)	Pitch (mm)
371 60	grey	2,5	5
371 00	blue		
371 20	orange		
371 30	red	4	6
371 61	grey		
371 01	blue		
371 21	orange		
371 31	red	6	8
371 77	green		
371 62	grey		
371 02	blue	10	10
371 78	green		
371 63	grey	16	12
371 03	blue		
371 64	grey	35	15
371 04	blue		
371 65	grey	70	22
371 05	blue		
371 66 ⁽¹⁾	grey		

⁽¹⁾ With integrated end cap.

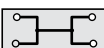
Viking 3 - Screw connection

Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78

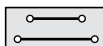
2. RANGE (continued)

2.2 Blocks with 1 connection - 2 entries/2 outlets



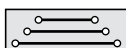
Cat. Nos	Colour	Nominal cross-section (mm²)	Pitch (mm)
371 69	grey	4	6
371 09	blue		

2.3 Blocks with 2 connections - 2 levels



Cat. Nos	Colour	Nominal cross-section (mm²)	Pitch (mm)
371 67	grey	2.5	5
371 07	blue		
371 68	grey	4	6
371 08	blue		

2.4 Blocks with 3 connections - 3 levels



Cat. Nos	Colour	Nominal cross-section (mm²)	Pitch (mm)
371 51	grey	2,5	5

Block Cat. No. 371 51 is also used to connect sensors (see diagram in 4.11).

3. STANDARDS

- **IEC EN 60947-1:**
Low-voltage switchgear and controlgear,
- **IEC EN 60947-7-1:**
Low-voltage switchgear and controlgear - Part 7-1: ancillary equipment
- Terminal blocks for copper conductors,
- **CSA C22-2 N°158:**
Terminal blocks,
- **UL 1059:**
Terminal blocks,
- **IEC 60364-5-52:**
Electrical installations of buildings - Part 5-52: Selection and erection of electrical equipment - Wiring systems.
- **IEC EN 60664-1:**
Insulation coordination for equipment within low-voltage systems (networks) - Part 1: principles, requirements and tests,
- **UL 94:**
Tests for flammability of plastic materials for parts in devices and appliances,
- **IEC EN 60529:**
Degrees of protection provided by enclosures (IP code).

4. TECHNICAL CHARACTERISTICS

4.1 Type of conductor

Connection conductors shall be in copper - flexible or rigid:

- Class 1, rigid core,
- Class 2, cabled rigid core,
- Class 5, flexible core,
- Flexible core with ferrule.

4.2 Connection cross-section

According to IEC EN 60947-7-1

	Cat. Nos	Nominal cross-section (mm²)	Pitch (mm)	Capacity (mm²)	
				Rigid conductor	Flexible conductor
	371 00/20/30/60	2.5	5	0.25 to 4	0.25 to 2.5
	371 01/21/31/61/77	4	6	0.25 to 6	0.25 to 4
	371 02/62/78	6	8	0.5 to 10	0.25 to 6
	371 03/63	10	10	1.5 to 16	2.5 to 10
	371 04/64	16	12	1.5 to 25	4 to 16
	371 05/65	35	15	2.5 to 50	4 to 35
	371 66	70	22	25 to 95	16 to 70
	371 09/69	4	6	0.25 to 6	0.25 to 4
	371 07/67	2.5	5	0.25 to 4	0.25 to 2.5
	371 08/68	4	6	0.25 to 6	0.25 to 4
	371 51 ⁽¹⁾	2.5	5	0.25 to 4	0.25 to 2.5

⁽¹⁾ Capacity - rigid conductor: 2.5 mm² max. with bridging comb.

Viking 3 terminal blocks take account of the dimensions of the ferrule for flexible conductors (Starfix double ferrules, see 4.8).

According to CSA No. 22-2 No. 158 and UL 1059

	Cat. Nos	Nominal cross-section (AWG)	Pitch (mm)
	371 00/20/30/60	12	5
	371 01/21/31/61/77	10	6
	371 02/62/78	8	8
	371 03/63	6	10
	371 04/64	4	12
	371 05/65	2	15
	371 66	000	22
	371 09/69	10	6
	371 07/67	12	5
	371 08/68	10	6
	371 51	12	5

4.3 Conductor stripping length

Cat. Nos	Pitch (mm)	Length (mm)
371 00/07/20/30/51/60/67	5	6 to 8
371 01/08/09/21/31/61/68/69/77	6	
371 02/62/78	8	10 to 12
371 03/63	10	
371 04/64	12	13 to 17
371 05/65	15	14 to 18
371 66	22	15 to 22

Viking 3 - Screw connection

Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78

4. TECHNICAL CHARACTERISTICS (continued)

4.4 Tightening torque

	Cat. Nos	Torque (Nm)	Screwdriver blade Ø (mm)	Other tool
	371 00/20/30/60	0.8	3.5	–
	371 01/21/31/61/77	1.4	4	
	371 02/62/78	1.4	4	
	371 03/63	2	5.5	
	371 04/64	2	5.5	PZ2
	371 05/65	4	6.5	PZ2
	371 66	10	–	Allen wrench 5 mm
	371 09/69	1.4	4	–
	371 07/67	0.8	3.5	–
	371 08/68	1.4	4	
	371 51	0.8	3.5	–

4.5 Insulating voltage and current

	Cat. Nos	Voltage (V)			Current (A)			
		IEC	CSA	UL	Ie1	IEC/le2	CSA	UL
	371 00/20/30/60	800	600	600	27	24	20	20
	371 01/21/31/61/77	800	600	600	36	32	30	30
	371 02/62/78	800	600	600	48	41	50	50
	371 03/63	800	600	600	63	57	60	60
	371 04/64	800	600	600	85	76	85	85
	371 05/65	800	600	600	138	125	115	115
	371 66	1000	600	600	213	192	200	200
	371 09/69	500	300	300	36	32	30	30
	371 07/67	500	300	300	27	24	20	20
	371 08/68	500	300	300	36	32	30	30
	371 51	400	300	300	27	24	20	20

IEC EN 60947-7-1, CSA No. 22-2 No. 158, UL 1059

Ie1: operating current:

- insulated conductors PR/EPR (θ max. 90°C), NF C 15-100 table 52H,
- insulated conductors PVC (70°C), fitting system C, IEC 60364-5-52 table 52.2,
- insulated conductors PR/EPR (θ max. 90°C), fitting system B2, IEC 60364-5-52, table 52.5.

Ie2: operating current:

- insulated conductors PVC (θ max. 70°C), NF C 15-100 table 52H column 2,
- insulated conductors PVC (70°C), fitting system B1, IEC 60364-5-52 table A52.2

4.6 Use category and protection class

Use category according to IEC EN 60947-1:

- Material group II,
- Proof tracking index: 400 to 600 V
- Overvoltage category III.

Protection class according to IEC EN 60529:

- Blocks with pitch 5/6 mm: IPXXB,
- Blocks with pitch 8/10/12/15/22 mm: IPXXB - front mounting only.

Note: the last block in a terminal strip must be fitted with an end cap.

4.7 Tapping

Two conductors can be connected at a single connection point under the following conditions:

- Do not mix flexible and rigid cores,
- Do not mix 2 rigid core conductors with different cross-sections.

The combinations of 2 conductors at a single connection point are allowed as illustrated in the table below (mm²):

	Class 1 Solid rigid core	Class 2 Cabled rigid core	Class 5 Flexible core	Flexible core with simple ferrule	Class 5 Flexible core (different cross- sections)
Pitch 5 2.5 mm ²	2 x 0,5 2 x 0.75 2 x 1	2 x 0,5 2 x 0.75 2 x 1	2 x 0.5		0.5 + 0.75
					0.5 + 1
					0.75 + 1
					0.75 + 1.5
Pitch 6 4 mm ²	2 x 0.5 2 x 0.75 2 x 1 2 x 1.5	2 x 0.5 2 x 0.75 2 x 1 2 x 1.5	2 x 0.5		0.5 + 0.75
					0.5 + 1
					0.75 + 1
					0.75 + 1.5
					1 + 1.5
					1 + 2.5
Pitch 8 6 mm ²	2 x 0.5 2 x 0.75 2 x 1 2 x 1.5 2 x 2.5	2 x 0.5 2 x 0.75 2 x 1 2 x 1.5 2 x 2.5	2 x 0.5 2 x 0.75 2 x 1		0.5 + 0.75
					0.5 + 1
					0.75 + 1
					0.75 + 1.5
					1 + 1.5
					1 + 2.5
					1.5 + 2.5
					1.5 + 4
Pitch 10 10 mm ²	2 x 1 2 x 1.5 2 x 2.5 2 x 4	2 x 1 2 x 1.5 2 x 2.5 2 x 4	2 x 1 2 x 1.5		1 + 1.5
					1 + 2.5
					1.5 + 2.5
					1.5 + 4
					2.5 + 4
Pitch 12 16 mm ²	2 x 1.5 2 x 2.5 2 x 4	2 x 1.5 2 x 2.5 2 x 4	2 x 1.5 2 x 2.5 2 x 4		1 + 2.5
					1 + 4
					2.5 + 4
					2.5 + 6
					4 + 6
Pitch 15 35 mm ²	2 x 1.5 2 x 2.5 2 x 4 2 x 6	2 x 1.5 2 x 2.5 2 x 4 2 x 6	2 x 2.5 2 x 4 2 x 6		2.5 + 4
					2.5 + 6
					4 + 6
					4 + 10
					6 + 10
					6 + 16
Pitch 22 70 mm ²	2 x 16 2 x 25 2 x 35	2 x 16 2 x 25 2 x 35	—		25 + 16
					35 + 16
					35 + 25

4.8 Compatibility with Starfix double ferrules

	Double ferrule (mm²)			
	Cat. No 376 87 2 x 0.75	Cat. No 376 88 2 x 1	Cat. No 376 89 2 x 1.5	Cat. No 376 90 2 x 2.5
Pitch of 5 2.5 mm²	● ⁽¹⁾	–	–	–
Pitch of 6 4 mm²	● ⁽¹⁾	● ⁽¹⁾	● ^{(1) (2)}	–
Pitch of 8 6 mm²	● ⁽¹⁾	● ⁽¹⁾	● ⁽¹⁾	● ^{(1) (3)}
Pitch of 10 10 mm²	●	●	●	● ⁽¹⁾

⁽¹⁾ Ferrule fitted vertically. ⁽²⁾ Current limited to 32 A. ⁽³⁾ Current limited to 41 A.

Viking 3 - Screw connection Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78

4. TECHNICAL CHARACTERISTICS (continued)

4.9 Operating conditions

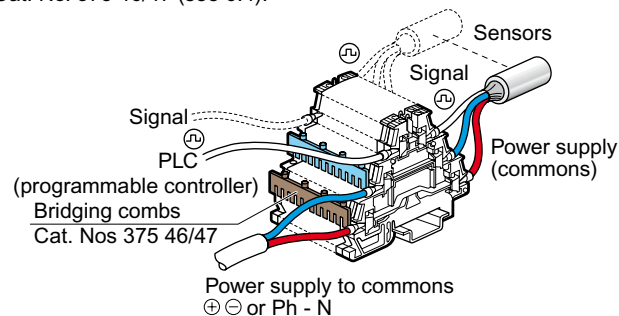
Transport temperature	- 25°C / + 55°C (+ 70°C during 24 hours)
Ambient temperature	- 5°C / + 40°C
Average temperature	35°C max. over 24 hours
Relative humidity	90% max. at 20°C 50% max. at 40°C
Altitude	2,000 m max.
Pollution level	3 according to IEC EN 60664-1 and IEC EN 60947-1

4.10 Fire resistance

- Polyamide V2 according to UL94,
- Glow wire: 960°C according to IEC EN 60695-2-11,
- Corrosiveness of fumes: 5% according to NF C 20453,
- Limiting oxygen index (LOI): 27 according to EN ISO 4589-2.

4.11 Use of a terminal block for sensors

Block Cat. No. 371 51 is used for connecting sensors and routing their common power supply via equipotential bridging combs Cat. No. 375 46/47 (see 6.4).

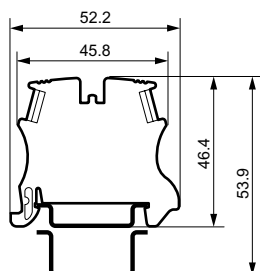


5. DIMENSIONS

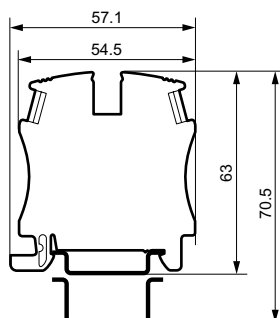
Viking 3 blocks provide aesthetic terminal strips via:

- a single block profile from pitch 5 to 10,
- identical height of blocks from pitch 12 to 22 (compact block 70 mm²).

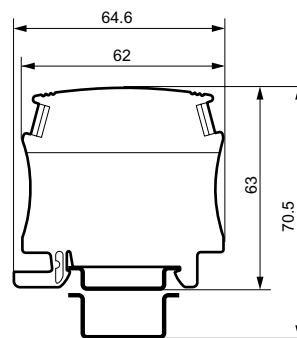
Cat. Nos 371 00/01/02/03/20/21/30/31/60/61/62/63/77/78:



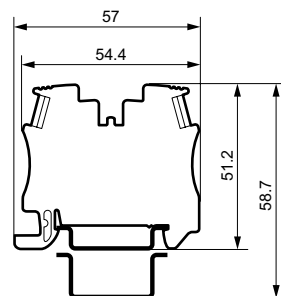
Cat. Nos 371 04/05/64/65:



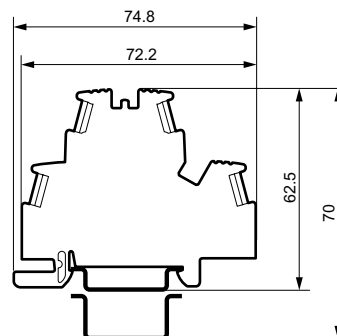
Cat. No 371 66:



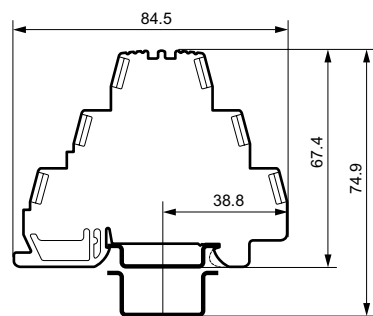
Cat. Nos 371 09/69:



Cat. Nos 371 07/08/67/68:



Cat. No 371 51:



Viking 3 - Screw connection

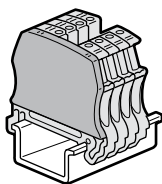
Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78

6. ACCESSORIES

6.1 End caps

Polyamide - dark grey
960°C according to IEC EN 60695-2-11.

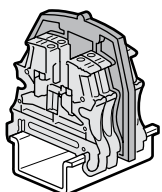


Cat. Nos	For blocks	Thickness (mm)
375 50	1 entry /1 outlet - Pitch 5/6/8/10	2
375 51	1 entry /1 outlet - Pitch 12/15	2.5
375 52	2 entries / 2 outlets	2
375 53	2 levels	2
375 54	3 levels	2.5

End stop Cat. No. 375 10 can also be used as an end cap for blocks with 1 entry/1 outlet and pitch 5/6/8/10 mm (see 6.11).

6.2 Separation and insulating dividers

Polyamide - dark grey
960°C according to IEC EN 60695-2-11.



Cat. Nos	For blocks	Thickness (mm)
375 60	1 entry /1 outlet - Pitch 5/6/8/10	2.5
375 61	1 entry /1 outlet - Pitch 12/15	2.6
375 62	2 entries / 2 outlets	2.5
375 63	2 levels	2.5
375 64	3 levels	2.5

6.3 Equipotential bridging combs

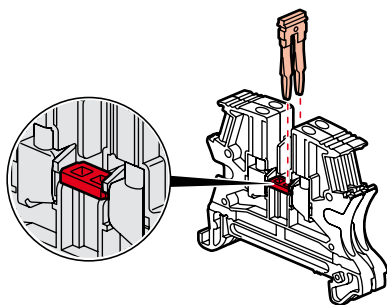
- Front mounting with automatic insertion, screwless for faster fitting,
- Insulated and separable,
- For consecutive or alternating connection,
- Tin-plated copper and red polyamide.

Note: these combs can also be used with the Viking 3 range of terminal blocks with spring connection.

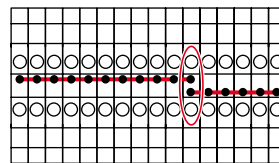
Cat. Nos	Capacity	Cross-section (mm²)
375 01⁽¹⁾	10 blocks - Pitch of 5	2.5
375 02⁽¹⁾	2 blocks - Pitch of 5	2.5
375 04	10 blocks - Pitch of 6	4
375 05	2 blocks - Pitch of 6	4
375 07	3 blocks - Pitch of 8	6
375 08	2 blocks - Pitch of 8	6

⁽¹⁾ Block Cat. No. 371 51: top level only.

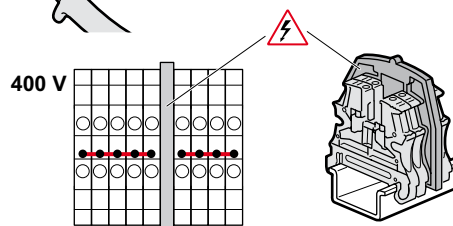
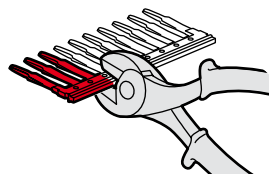
Up to a pitch of 8 mm, blocks have two dedicated areas for equipotential bridging combs.



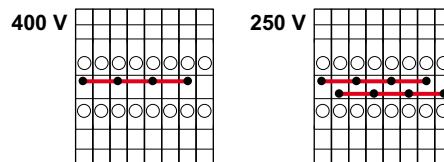
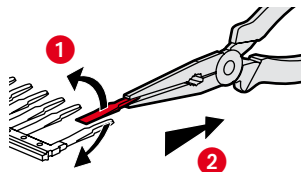
These two areas are used for tapping for a continuous equipotential link of over 10 blocks.



The combs keep the insulating voltages of the terminal blocks. Combs cut to length require the use of a separation and insulating divider in order to keep the initial voltage.



The voltage is derated in case of a parallel alternating connection.



6.4 Equipotential bridging combs for sensor blocks Cat. No. 371 51

- Side assembly for bottom and intermediate levels,
- Insulated and separable,
- Tin-plated copper and polyamide.

Cat. Nos	Colour	Capacity	Cross-section (mm²)
375 46	Brown	12 blocks - Pitch of 5	2.5
375 47	Blue	12 blocks - Pitch of 5	2.5

See wiring diagram in 4.8.

6.5 Equipotential bridging bars

- Front mounting with screws,
- Bare, pre-assembled (captive spacer),
- For consecutive or alternating connection,
- Tin-plated brass.

Cat. Nos	Capacity	Cross-section (mm²)	Tightening torque (Nm)	Screwdriver, blade ø (mm)
375 40	12 blocks - Pitch of 10	10	0.9	3.5
375 42	12 blocks - Pitch of 12	16		4
375 44	12 blocks - Pitch of 15	35		4

Viking 3 - Screw connection

Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78

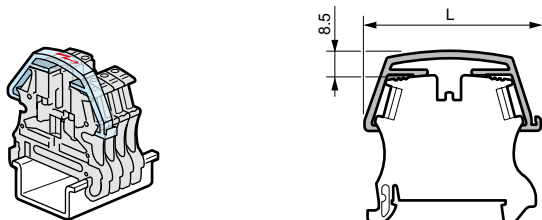
6. ACCESSORIES (continued)

6.6 Protective screens

750°C according to IEC EN 60695-2-11.

6.6.1 Single-pole

Clear polycarbonate



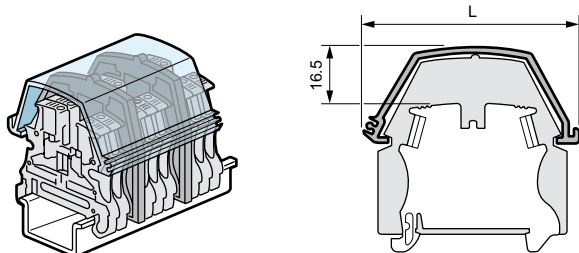
Cat. Nos	For block with 1 entry/1 outlet	L (mm)
375 65	Pitch of 5/6	58
375 66	Pitch of 8/10	
375 67	Pitch of 12/15	69

6.6.2 For cutting to length

Length: 1 m

Clear polycarbonate.

Takes CAB 3 markers: 0.15 to 0.5 mm² and 0.5 to 1.5 mm².



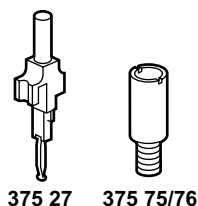
Cat. Nos	For blocks with 1 entry/1 outlet	Fits onto separation and insulating divider	L (mm)
375 68	Pitch of 5/6/8/10	375 60	66
375 69	Pitch of 12/15	375 61	76

6.7 Measurement accessories

6.7.1 Measurement sockets

Cat. Nos	For blocks	For plug Ø (mm)
375 27⁽¹⁾	Pitch of 5/6	4
375 75	Pitch of 10	2
375 76	Pitch of 12/15	4

⁽¹⁾ Block with 2 and 3 levels: top level only.



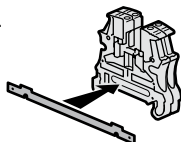
6.7.2 IP2X safety tip adaptor, Cat. No. 394 95

- Test plug Ø 2 mm - retractable tube,
- For performing ad-hoc tests according to regulations on the protection of workers,
- Fixes directly on Ø 4-mm plug.

6.8 Shielding accessories

6.8.1 Screening continuity bracket, Cat. No. 375 35

For blocks with 1 entry/1 outlet - Pitch 5/6/8/10 mm.
Connected with 2.8 x 0.8-mm clips or welded on.
Capacity: 1 mm².

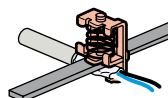


6.8.2 Shielding clamps

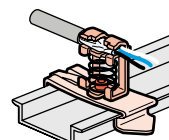
Cat. Nos	For cables Ø (mm)
375 30	3 to 8
375 31	4 to 13.5
375 32	10 to 20



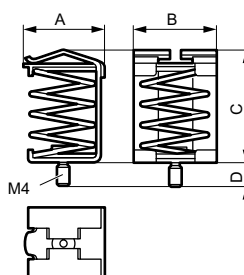
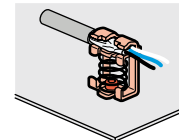
Fixing on bar
10 x 3
Cat. No 375 34



Fixing on rail
with accessory
Cat. No 364 69



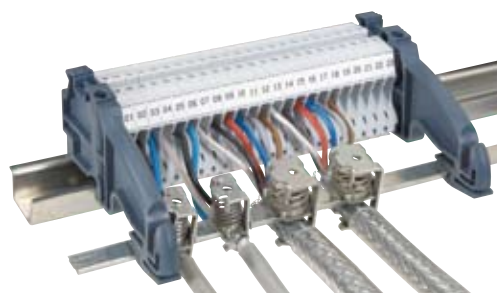
Fixing on plate
with M4 screws
(supplied))



Cat. Nos	Dimensions (mm)			
	A	B	C	D
375 30	13.5	18	26	5.6
375 31	20	20.3	31.4	5.3
375 32	24.8	26	40	5.3

6.8.3 Shielding bar, Cat. No. 375 34

- For use with end stops Cat. No. 375 12 (see 6.11)
- 10 x 3 mm,
- Length 1 m,
- Steel.



Shielding terminal strip with end stops, Cat. No. 375 12,
bar Cat. No. 375 34 and clamps Cat. Nos. 375 30/31.

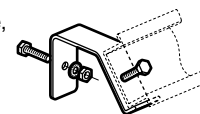
6.9 Rails

- Length 2 m,
- Galvanized steel

Cat. Nos	Rail
374 04	EN 60715 depth 7.5 mm
374 07	Depth 15 mm
477 22	Depth 7.5 mm with oblong holes
477 23	Depth 15 mm with oblong holes

6.10 45° mounting bracket, Cat. No. 394 49

- Set of 2 brackets providing a 45° rail angle,
- Galvanized steel,
- Supplied with 4 M6 screws, nuts and washers.



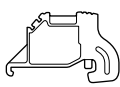
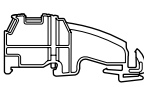
Viking 3 - Screw connection

Connecting terminal blocks

Cat. Nos: 371 00/01/02/03/04/05/07/08/09/20/21/30/31
371 51/60/61/62/63/64/65/66/67/68/69/77/78

6. ACCESSORIES (continued)

6.11 End stops

				
Cat. Nos	375 10	375 11	375 12	375 13
Pitch (mm)	6	8	10	12
For rails	□ Depth 15 mm □ EN 60715 depth 7.5 mm and 15 mm			
	—			□ EN 60715

Cat. No 375 10: Acts as an end cap for blocks with 1 entry/1 outlet and pitch 5/6/8/10.

Cat. No 375 12: End stop for bar bracket, protection or shielding conductor.

Note: other characteristics are listed in the specific end stops technical data sheet.

6.12 Marking

6.12.1 Manual marking

CAB 3 markers:

International colour code digits, letters, conventional symbols.

Terminal block marking capacity:

- 4 CAB 3 markers 0.15 to 0.5 mm², up to 7 markers with marker holder Cat. No. 383 92,
- 3 CAB 3 markers 0.5 to 1.5 mm², up to 6 markers with marker holder Cat. No. 383 92.



Pre-printed markers:

- For blocks with pitch 5/6/8,
- Provided as pre-cut plates,
- Digits and numbers,
- Horizontal or vertical reading,
- Rapid marker fitting via band on terminal strip.



Blank markers:

- Cat. No. 395 00 for blocks with pitch 5.
- Cat. No. 395 01 for blocks with pitch 6.
- Cat. No. 395 02 for blocks with pitch 8.
- Provided as pre-cut plates,
- Permanent marking with black felt-tip pen Cat. No. 395 98,
- Rapid marker fitting via band on terminal strip.



LEGRAND'S ADVANTAGE

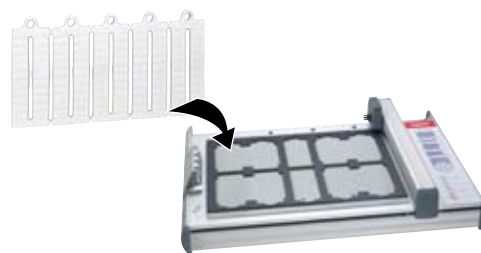
The single length of the marking areas on Viking 3 blocks allows markers to be fitted singly on a block with a pitch larger than the marker.

Example: Marker Cat. No. 395 00 can be fixed on a block with pitch 12.

6.12.2 Logicab 2 digital marking

Plotter:

Marking on blank markers using the plotter kit.
Cat. Nos 395 00/01/02.



Printer:

Marking on blank markers using the printer kit.
Provided as pre-cut plates
Cat. No. 387 43 - Pitch of 5, except Cat. No. 371 51.
Cat. No. 387 44 - Pitch of 6.

