

Ω FLAT - Bar support

TECHNICAL FEATURES

Universal

- Distance between adjustable phases
- Blocks complete with fitting screws
- Support rail made of PVC
- Bar thickness from 4 ÷ 14 mm
- Ampacity from 250 ÷ 1600 A
- High resistance to short-circuits

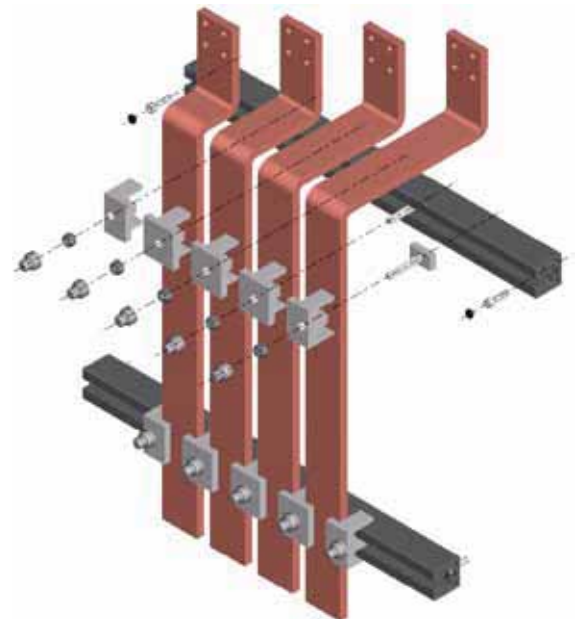
- Minimum air distance between two phases 20 mm with "T" blocks
- Minimum air distance between two phases 40 mm with "L" blocks

Certifications:

Compliant with standard IEC 61439-2

Ω FLAT was tested in laboratory

CERTIFIED ACAE-LOVAG as per standard IEC IEC 61439-2



The Ω FLAT bar support is a **UNIVERSAL, QUICK** and **COMPETITIVE** solution for all flat supporting requirements of copper or aluminum bars.

It is mainly made of two elements:

- 1) supporting and fastening rail in extruded PVC
- 2) set of blocks and screws to tighten the bars.

The Ω FLAT bar support can also be used as an anchoring system for flexible insulated bars (cf. page 8).

SUPPORT RAIL

- One single code for all configurations
- Made in extruded PVC
- Black color
- Self-extinguishing UL 94-V0
- 2 meters long
- Working temperature up to 85°C
- quick fitting to the panel board structure by means of hex socket head cap screws M6x25, to be used after punching the bottom guiding rail of the channel

Code	Reference	Description	
FLT1000	FLT PR 2000	PVC Rail 2 meters long	2



INSULATING BLOCKS AND SCREWS

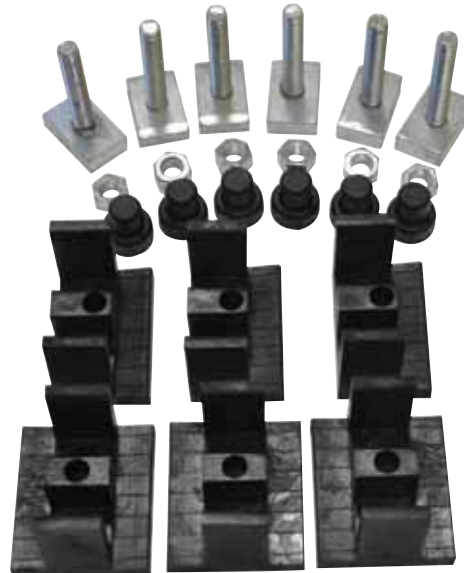
In 6/6 polyamide reinforced with 30% fiberglass
Black color
Self-extinguishing UL 94-V0

- insulating "L" block
(for adjustable space between phases)
- insulating "T" block
(for minimum space between bars = 20 mm)

Complete with fastening screws and insulating nut cap

- Hammer head screw to insert in channel to fasten block
- hexagonal nut to tighten block
- insulating nut cap
- hex socket head cap screws M6x25 to fasten rail
- plastic cap to insulate the head screw

Code	Reference	Description		Bar thickness (mm)		Bar width (mm)	
FLT1005	FLT BL-L	Kit of 6 L-shaped blocks in PA 6/6 complete with screws	1	min 4	max 14	min 20	max 100
FLT1010	FLT BL-T	Kit of 6 T-shaped blocks in PA 6/6 complete with screws	1				



Example:

to make a 3-pole + neutral bar support at **MINIMUM distance between phases**

Use: n° 1 PVC rail 2 m long to be cut at requested length
 n° 3 "T" blocks with screws for intermediate fastening between bars of different phases
 n° 2 "L" blocks with screws for terminal fastening of the two farthest bars

Select: PVC rail 2 m long **FLT1000**
 n° 1 kit of "L" blocks complete with screws **FLT1005**
 n° 1 kit of "T" blocks complete with screws **FLT1010**

Ω FLAT - Bar support (table of distances)

Distance between supports depending on Icc (short-circuit current)

Icc pk = Short-circuit current peak value expressed in kA

Icc rms = Effective value of short-circuit current, duration equal to 1 second, expressed in kA

		Icc pk (kA)	53				74				84			
		Icc rms (kA)	25				35				40			
BAR CROSS SECTION	30x5	Spacing between phases (mm)	50	70	80	90	50	70	80	90	50	70	80	90
		Distance between bar supports (mm)	240	330	390	440	120	170	195	220	-*	130	150	170
	40x5	Spacing between phases (mm)	60	80	90	100	60	80	90	100	60	80	90	100
		Distance between bar supports (mm)	290	380	425	480	150	190	200	225	115	150	160	180
	50x5	Spacing between phases (mm)	70	90	100	110	70	90	100	110	70	90	100	110
		Distance between bar supports (mm)	335	430	475	525	170	220	240	265	130	170	190	210
	60x5	Spacing between phases (mm)	80	100	110	120	80	100	110	120	80	100	110	120
		Distance between bar supports (mm)	380	480	530	575	190	245	270	290	150	190	210	230
	80x5	Spacing between phases (mm)	100	120	130	140	100	120	130	140	100	120	130	140
		Distance between bar supports (mm)	480	570	625	675	240	295	320	345	190	230	250	265
	100x5	Spacing between phases (mm)	120	140	150	160	120	140	150	160	120	140	150	160
		Distance between bar supports (mm)	590	680	730	780	290	340	370	390	230	265	285	305

- * value less than 100 mm

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		Icc rms (kA)	25				35				40			
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NOTE:

The first value of spacing between phases refers to the use of the "T" block (air distance between two adjacent bars, equal to 20 mm).

The second value of spacing between phases refers to the use back to back "L" blocks (air distance between two adjacent bars, equal to 40 mm).

Further values refer to the use of the "L" blocks only (2 per bar) spaced between each other.

For other values of spacing between phases, contact our technical office.