

Busbar Supports Busbar Holder

Material: Glass fiber reinforced unsaturated polyester

OVERVIEW

Busbar Support and Busbar Insulator products under the “ML MULLER” brand are made from glass fiber reinforced, unsaturated polyester materials.

Our products have been tested and accredited by the Foundation for Industrial Development and The Thailand Automotive Institute.

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BUSBAR SUPPORTS

Material glass fiber reinforced unsaturated polyester
for vertical and horizontal busbar laying

Technical data of the material

Description		Astm method	Value	Unit
Specific Gravity		D795	1.91±0.02	g/cc
Mold Shrinkage		D570	0.02±0.03	%
Barcol Hardness		D2583	70	HRC
Heat Distortion Temperature		D648	400	°F
Impact Strength (Ixd)		D256	4.5	Ft-lb/in notch
CaCo ₃			45	% (about)
Glass Fiber 9MM.			19	% (about)
Linear expansion Coefficient			Under 2.0	10 ⁵ /°C
Flexural Strength		D790	1500	kg/cm ²
Flexural modulus		D790	12	GPa
Tensile Strength		D638	500	kg/cm ²
Compressive Strength		D895	1600	kg/cm ²
Shear Strength		D732	800	kg/cm ²
Charpy Impact Strength		JIS-K6911	40	kJ/m ²
Water Absorption (boiling)		D570	Under 0.15	%
Insulation resistance	Normal	D257	Over 10 ¹³	Ohm
	After boiling	D257	Over 10 ¹¹	Ohm
Dielectric Streng (Short time)		D149	Over 12	kV/mm
Dissipation Factor, 50/60 Hz		D150	0.02	V/mm
Dielectric Constant, 50/60 Hz		D150	4.9	V/mm
Arc Resistance		D495	180	Sec
Tracking resistance		IEC-112	Over 100V	CTI
Heat resistance		D495	180°C 2 hr	-
Flammability		UL-94	HB	-

BUSBAR SUPPORTS

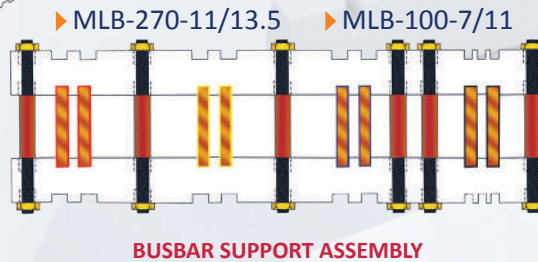
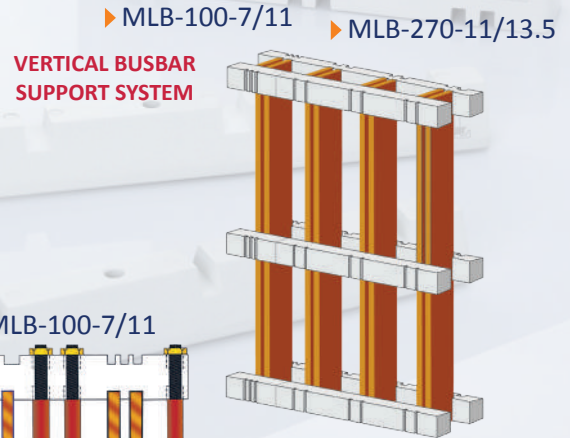
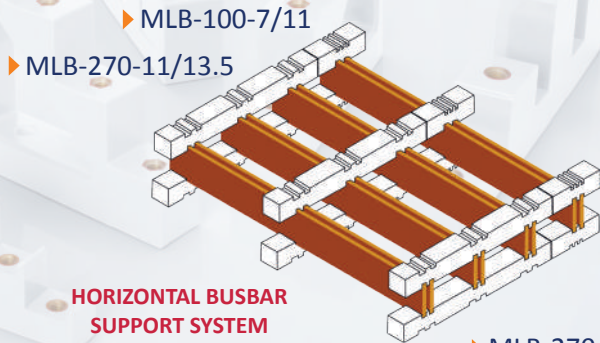
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CaCO ₃			45	% (about)
Glass Fiber 9 MM.			19	% (about)
Linear expansion Coefficient			Under 2.0	10 ⁵ /C
Flexural Strength		D790	1500	kg/cm ²
Flexural modulus		D790	12	GPa
Tensile Strength		D638	500	kg/cm ²
Compressive Strength		D895	1600	kg/cm ²
Shear Strength		D732	800	kg/cm ²
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Dielectric Streng (Short time)		D149	Over 12	kV/mm
Dissipation Factor, 50/60 Hz		D150	0.02	V/mm
Dielectric Constant, 50/60 Hz		D150	4.9	V/mm
Arc Resistance		D495	180	Sec
Tracking resistance		IEC-112	Over 100V	CTI
Heat resistance		D495	180°C 2 hr	-
Flammability		UL-94	HB	-

BUSBAR SUPPORTS

for vertical and horizontal busbar laying



Recommendation Short circuit level in KA₁S for busbar support system

Size of copper Busbar (Metric)	L = 800 m.m.		L = 800 m.m.		L = 800 m.m.		L = 800 m.m.			L = 800 m.m.
	D=75 (one bar/ph)	D=75 (two bar/ph)	D=100 (one bar/ph)	D=100 (two bar/ph)	D=125 (one bar/ph)	D=125 (two bar/ph)	D=150 (one bar/ph)	D=150 (two bar/ph)	D=150 (three bar/ph)	D=155 (three bar/ph)
40 x 10	20									
50 x 10	22		25	28	28	31	30	32		
60 x 10	24		28	32	30	33	34	35		
80 x 10	27		31	40	34	41	38	42	49	
100 x 10	30		35	48	39	50	43	52	55	
125 x 10	32		39	54	43	55	48	56	66	
160 x 10			42	58	45	62	54	69	75	
Size of copper Busbar (Imperial)										
2" x 1/4"	16	18	20	21		22		23	24	
2 1/2" x 1/4"	18	20	22	23		24		5	27	
3" x 1/4"	20	22	23	25		26		28	29	
4" x 1/4"	22	27	25	27		28		30	33	
2" x 1/2"			28		30	35	36	38		
2 1/2" x 1/2"			32		35	38	40	42		
3" x 1/2"			36		39	47	43	50		55
4" x 1/2"			40		45	54	50	57		60
5" x 1/2"			45		50	60	55	65		70
6" x 1/2"			50		54	68	60	75		80

Note L Distance between two supports on the same phase (m.m)

D Distance between interphase (m.m)

Edge vertical mounting arrangement TP&N with three supports in the same phas

BUSBAR SUPPORTS SELECTION GUIDE

REFERENCE NUMBER	D = 75	D = 100	D = 125	D = 150	D = 155
MLB-220-7/11	✓				
MLB-270-11/13.5		✓			
MLB-370-11/13.5			✓		
MLB-100-7/11		✓	✓	✓	✓
MLB-124-11/13.5			✓	✓	✓

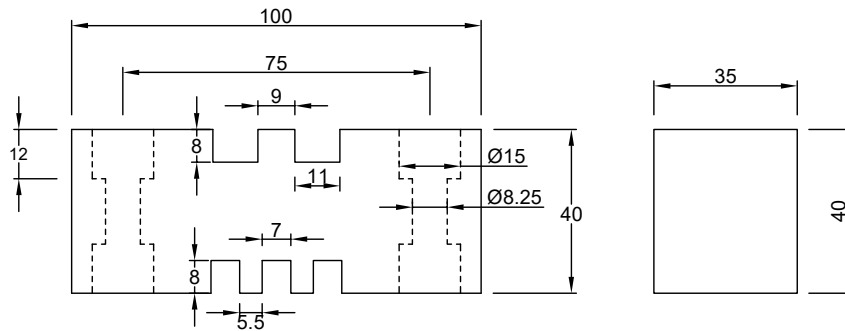
GUIDELINE FOR ASSEMBLY PANEL FOR SHORT CIRCUIT TYPE TESTED.

- 1 Form of protection: To planning in design the form of separation by partitions of the Panel is subject to comply to BS 5486 PART 1: 1990 AND IEC 439 PART 1: 1985 UNDER CLAUSE 7.7
- 2 The busbar selected should be of proper rating. Suitably derating factor for the proximity effect of conductor, derating factor for the rises in temperature, derating factor for the enclosure should be applied for getting the correct rating of busbar.
- 3 The support should be placed at a recommended distance.
The safety factor will decrease with increase L or decrease D
The safety factor will increase with decrease L or increase D
- 4 Add brace integrating several bars of the same phase between the span of supports (L) will increase the short circuit withstand of busbar system.
 - Add one brace at the middle of span (at $1/2L$) the short circuit withstand will be about 1.4 time of non-brace.
 - Add two brace symmetrical between the span (at $1/3L$) the short circuit withstand will be about 1.7 time of non-brace.
- 5 It is recommended to check each support before test for proper fixing, no loose bolt, use high tensile Bolts with spring washer, use the right distance spacer so that there is no load on center slot of multi-slot support.
- 6 The panel should be brought to the testing station in semi knocked down condition and carefully Packed to protect against any damage during transportation and complete check at the site for any loose or broken support as small fractures developed at the time of transportation may be potential areas for failure of the supports.

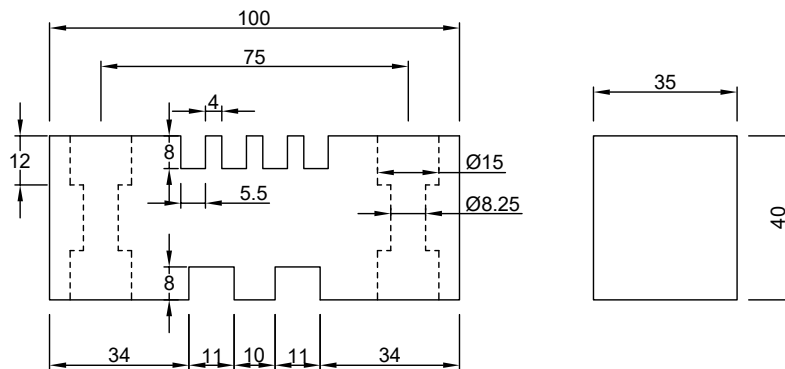
ONE POLE BUSBAR



Material glass fiber reinforced unsaturated polyester
for vertical and horizontal busbar laying

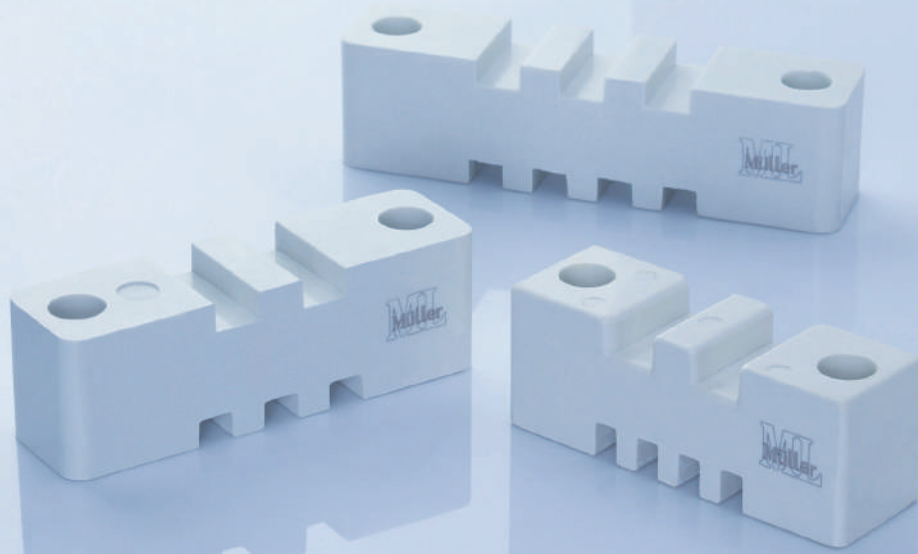


► **MLB-100-7/11**

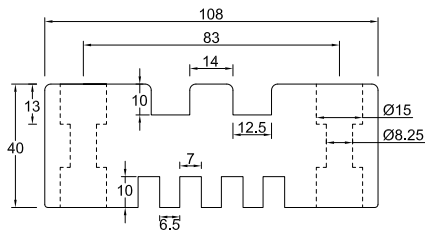


► **MLB-100-5.5/11**

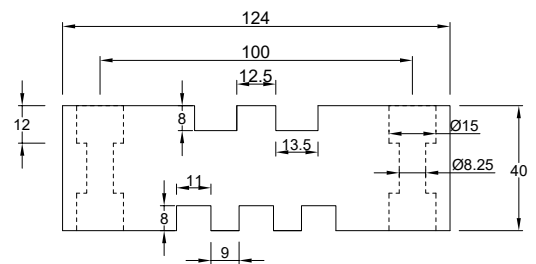
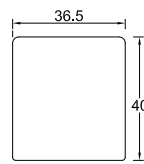
ONE POLE BUSBAR SUPPORT



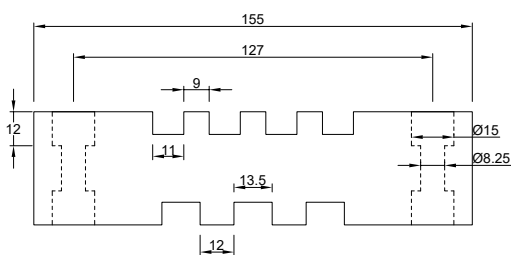
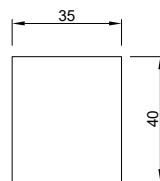
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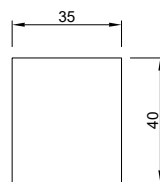
► MLB 108-7/12.5



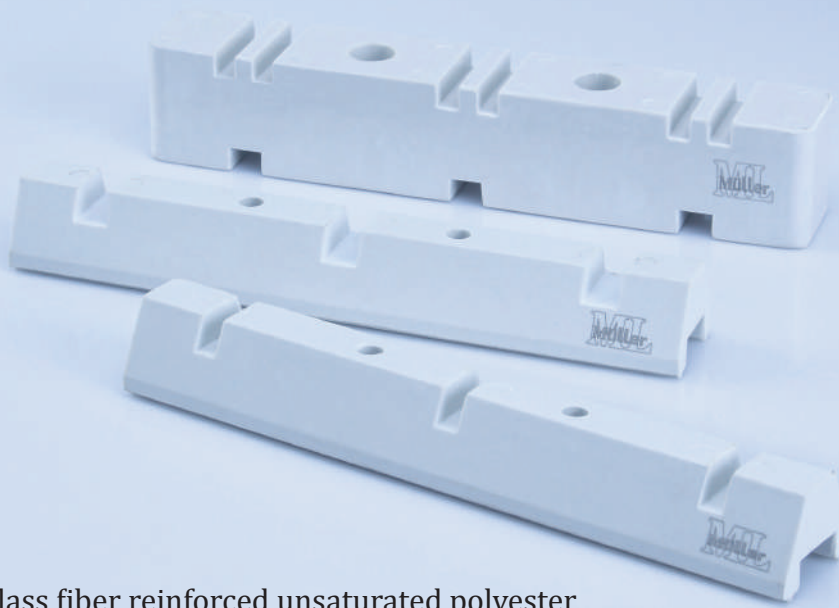
► MLB 124-11/13.5



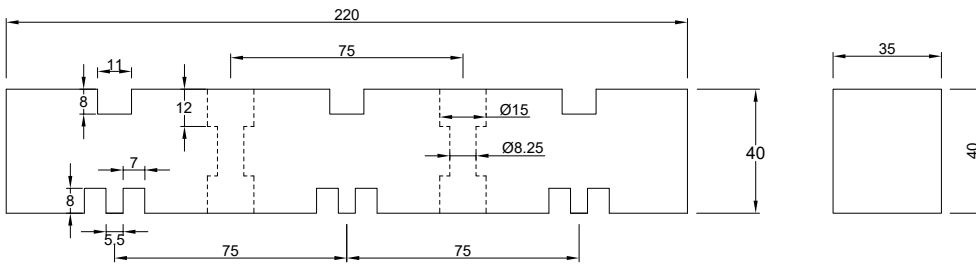
► MLB 155-11/13.5



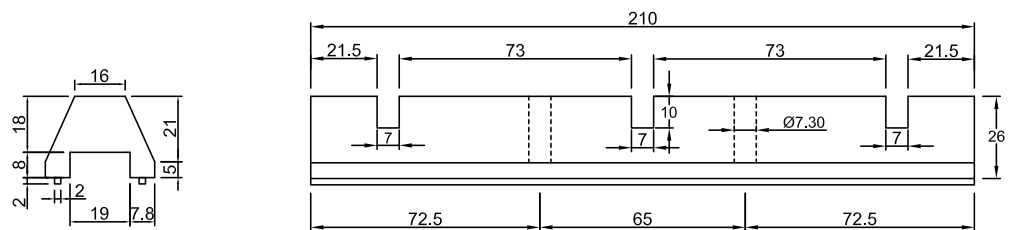
TRIPLE POLE BUSBAR SUPPORT



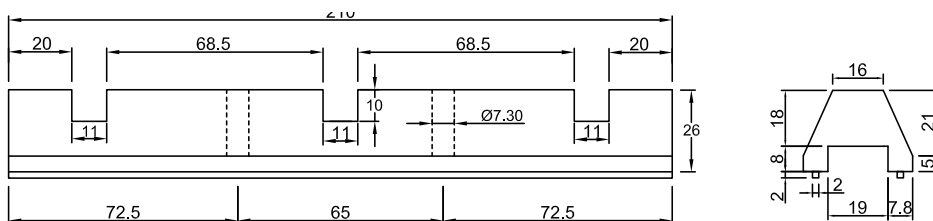
Material glass fiber reinforced unsaturated polyester
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► MLB 220-7/11

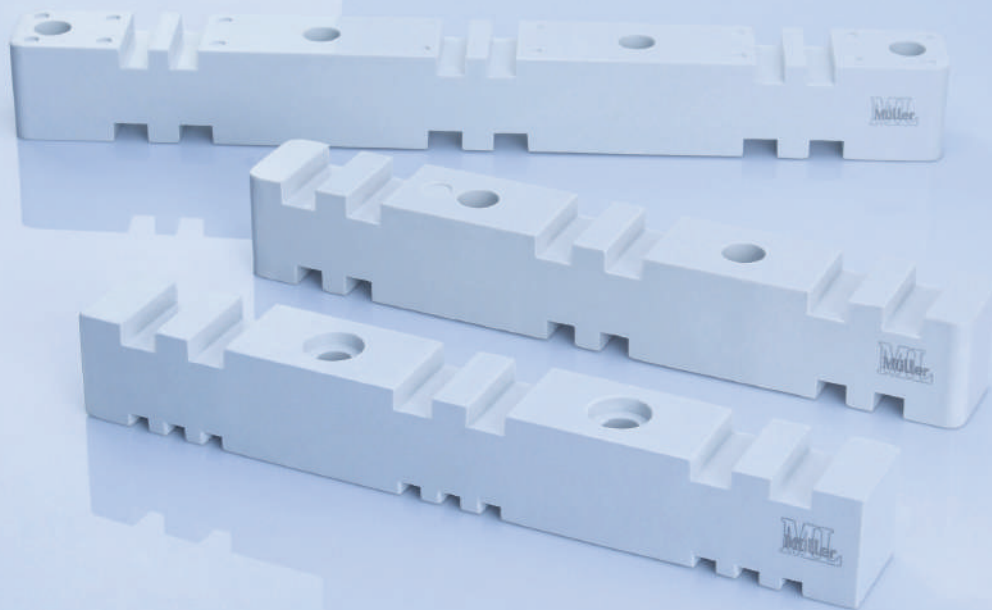


► MLB 210-7

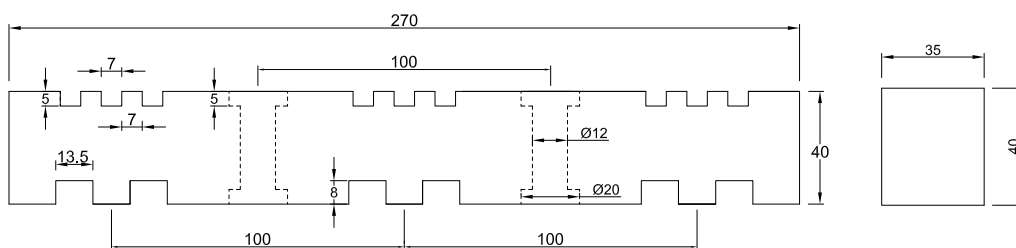


► MLB 210-11

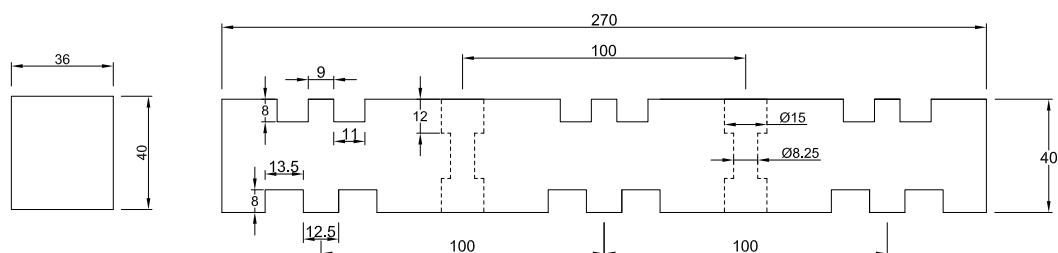
TRIPLE POLE BUSBAR SUPPORT



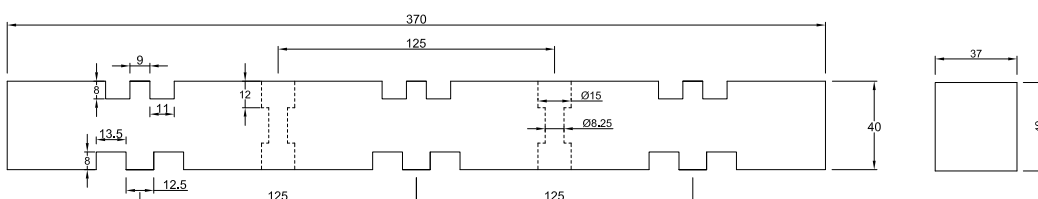
Material glass fiber reinforced unsaturated polyester
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► **MLB 270-7/13.5**

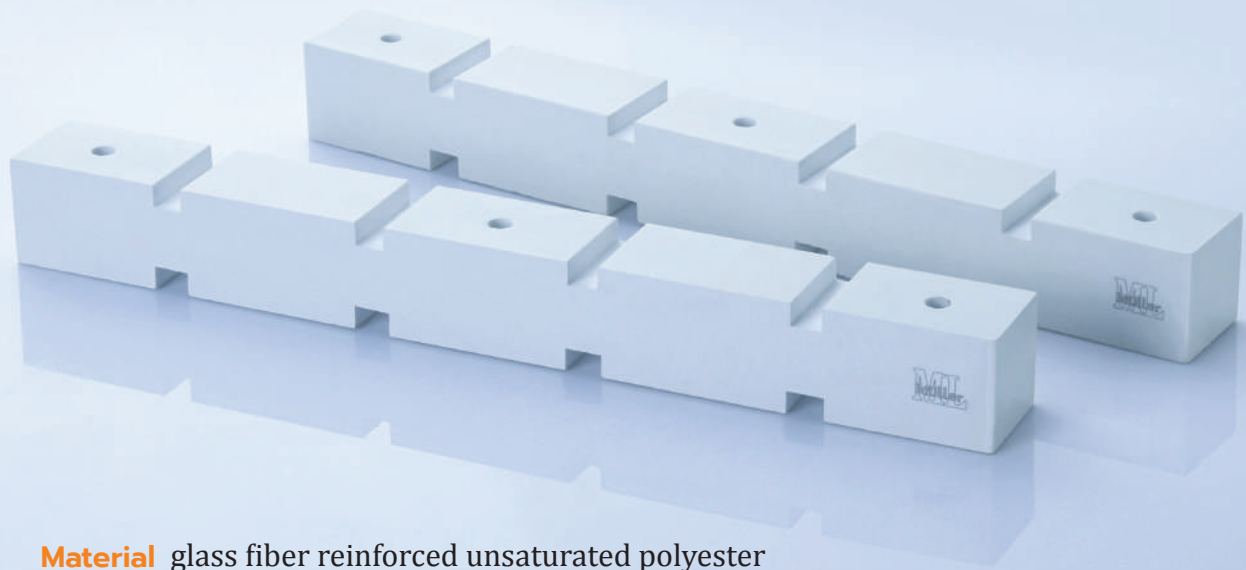


► **MLB 270-11/13.5**



► **MLB 370-11/13.5**

■ FOUR POLE BUSBAR SUPPORT

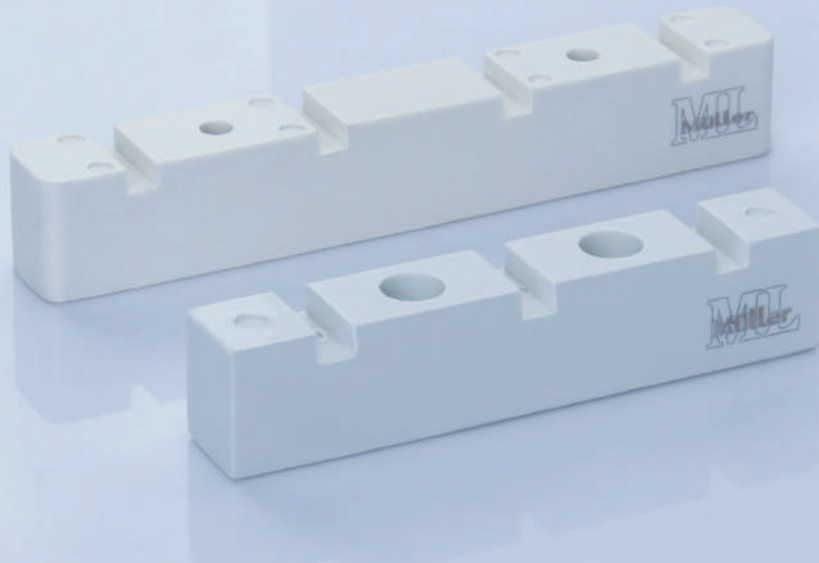


Material glass fiber reinforced unsaturated polyester
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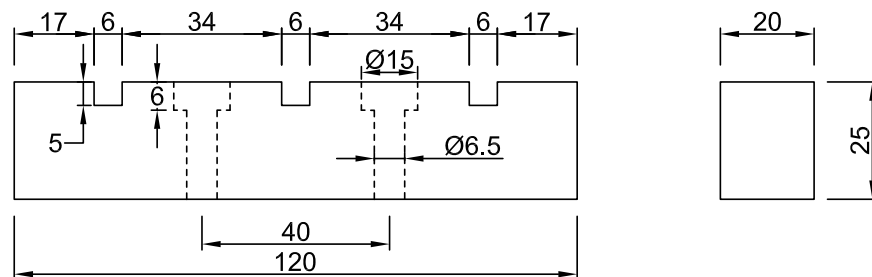


► **MLB 370-11/13.5-4P**

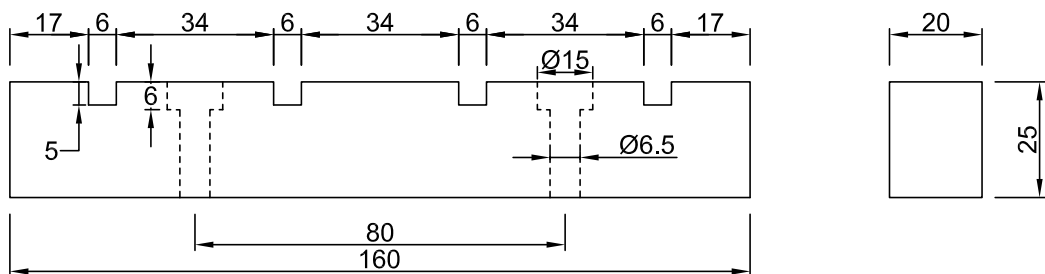
TRIM, FOUR POLE BUSBAR



Material glass fiber reinforced unsaturated polyester
for vertical and horizontal busbar laying



► **MLB 140-6 3P**

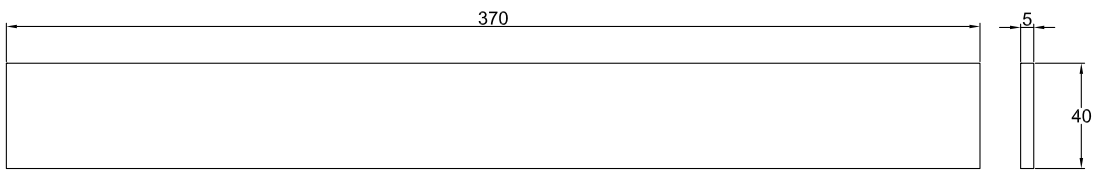


► **MLB 160-6 4P**

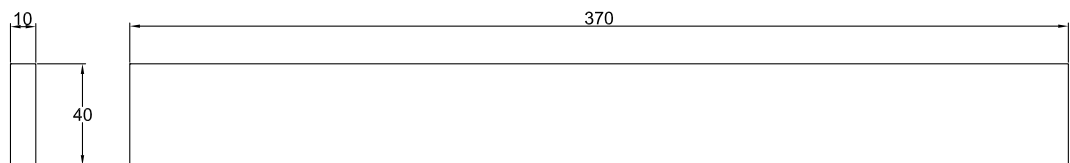
PROTECT BUSBAR



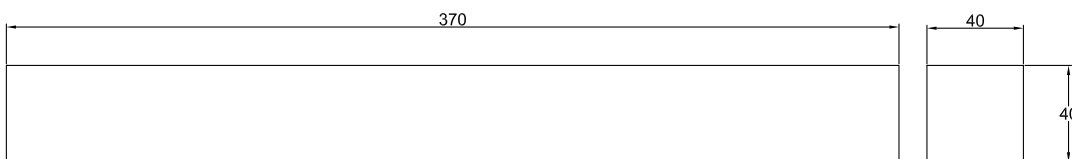
Material glass fiber reinforced unsaturated polyester
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▶ MLB 40-370/5

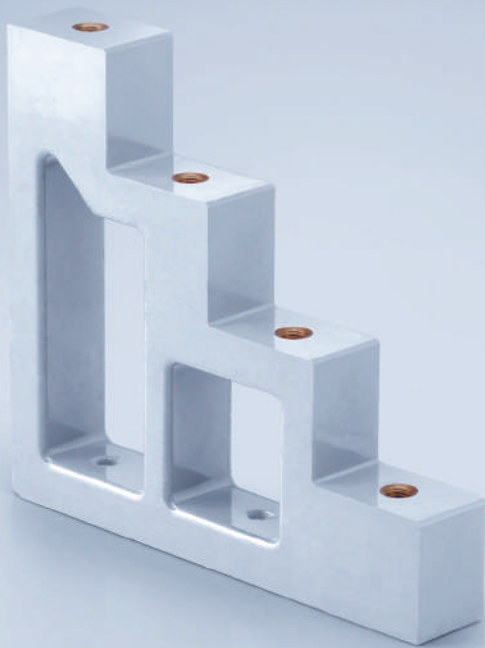


▶ MLB 40-370/10

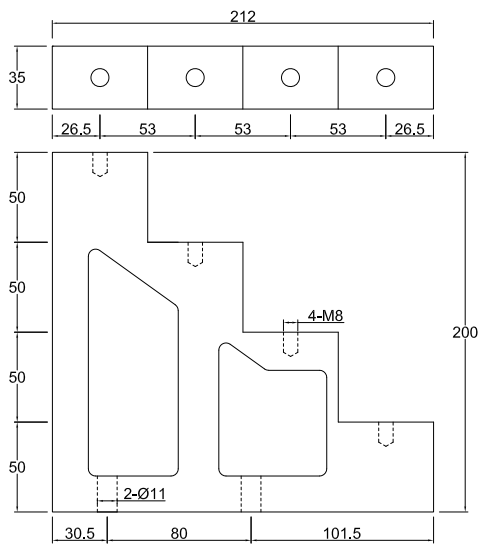


▶ MLB 40-370/40

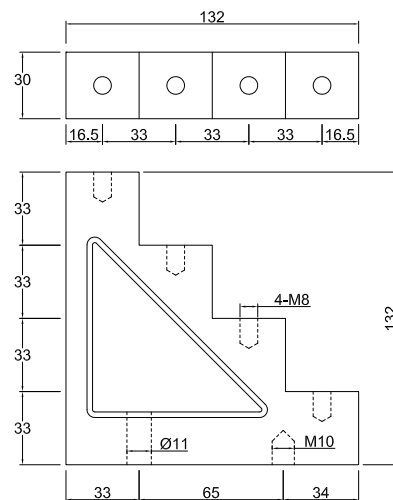
STEP INSULTORS



Material glass fiber reinforced unsaturated polyester

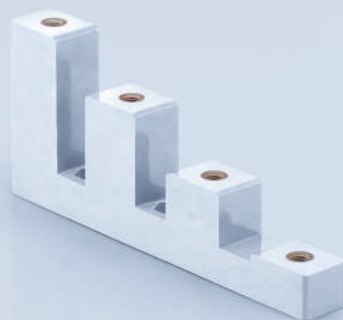


► **MLS 50-4P**

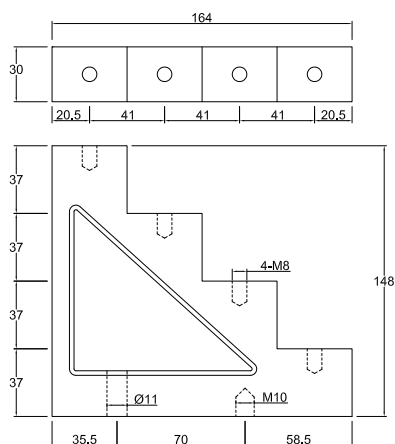


► **MLS 30-4P**

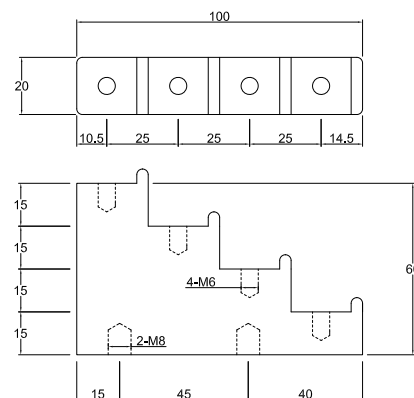
STEP INSULTORS



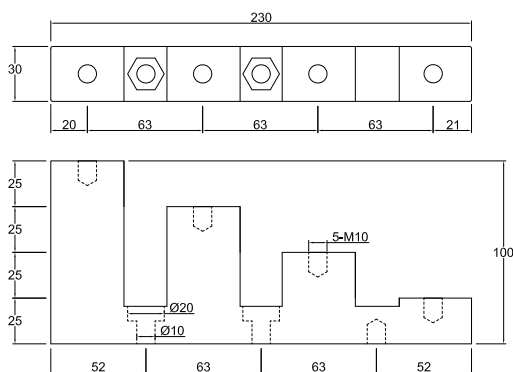
Material glass fiber reinforced unsaturated polyester



► **MLS 40-4P**



► **MLS 20-4P**



► **MLS 40J-4P**

BUSBAR HOLDERS & BUSBAR SUPPORTS

Material glass-fiber reinforced unsaturated polyester

Reliable material with excellent properties

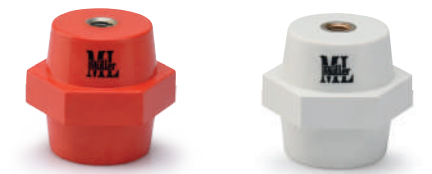
- high mechanical strength.
- high comparative tracking index.
- non flammable properties.
- ability to withstand high temperatures.
- high dielectric strength.



▶ ML-60-12



▶ ML-50-10

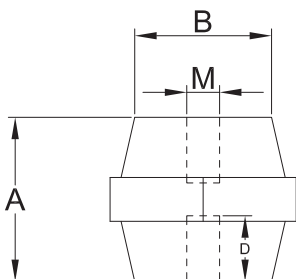
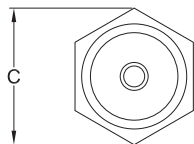


▶ ML-40-8



▶ ML-30-6

MLR ■ MLW



STANDOFF BUSBAR HOLDER

Technical data of the material

Properties	Test Method	Unit	ML-30	ML-40	ML-50	ML-60
Compressive Stress	-	kgf	4900	8300	9800	11700
Tensils Stress	-	kgf	600	1100	1300	1500
Twisting Stress	-	kgfxm	3	10	10	10
Cantilever Stress	-	kgf	400	600	800	800
D.C&A.C Operating Voltage	-	volts	600	1000	1000	1000
Shear Strength	D-732	Kg/mc ²	800	800	800	800
Specific Gravity	D-792	gm/cc	1.9	1.9	1.9	1.9
Glass Content	-	%	15	15	15	15
Water Absorption	D-570	%	0.15	0.15	0.15	0.15
Dielectric Strength	D-149	kv/mm	10	10	10	10
Flammability	UL-94	class	V-0	V-0	V-0	V-0
Arc Resistance	-	Secs	180	180	180	180
Tracking Index	15-2824	volts	+1000	+1000	+1000	+1000
Max. Operating Temperature	-	°C	130	180	180	180

REF NO.	DIMS.				BUSH SIZE
	A	B	C	D	
ML-30-6	30	25	39	12	M-6
ML-30-8	30	25	39	12	M-8
ML-40-8	40	30	48	12	M-8
ML-50-10	50	36	54	14	M-10
ML-60-12	60	38	58	17	M-12

STANDOFF BUSBAR HOLDER

Standoff insulators in hexagonal-design

The offered standoff insulators are manufactured by a glass-fiber Reinforced unsaturated polyester.

The special characteristic is the hexagonal-design

This design enable a vary quick installation without problem.

By using our insulators the time of installation and so

The installation costs will be reduced to a minimum.

Conform to standards:

2 IEC 439-1, IEC 439-2, IEC 865-1

1 VDE 0660-500, VDE 0103/1.61,

VDE 57100

4 DIN 43671

3 BS 5486 PART 1 : 1990

BUSBAR HOLDERS & BUSBAR SUPPORTS

Material glass-fiber reinforced unsaturated polyester

Reliable material with excellent properties

- high mechanical strength.
- high comparative tracking index.
- non flammable properties.
- ability to withstand high temperatures.
- high dielectric strength.

STANDOFF BUSBAR HOLDER

Technical data of the material

Properties	Test Method	Unit	35-6	35-8	50-8
Compressive Stress	-	kgf	4900	4900	9800
Tensils Stress	-	kgf	600	600	1300
Twisting Stress	-	kgfxm	3	3	10
Cantilever Stress	-	kgf	400	400	800
D.C&A.C Operating Voltage	-	volts	600	600	1000
Shear Strength	D-732	Kg/cm ²	800	800	800
Specific Gravity	D-792	gm/cc	1.9	1.9	1.9
Glass Content	-	%	15	15	15
Water Absorption	D-570	%	0.15	0.15	0.15
Dielectric Strength	D-149	kv/mm	10	10	10
Flammability	UL-94	Class	V-0	V-0	V-0
Arc Resistance	-	Secs	180	180	180
Tracking Index	15-2824	volts	+1000	+1000	+1000
Max. Operating Temperature	-	°C	130	130	130



▶ ML-35-6



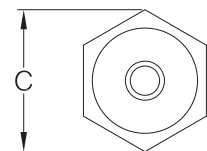
▶ ML-35-8



▶ ML-50-8

MLR ■

MLW



REF NO.	DIMS.					BUSH SIZE
	A	B	C	D		
ML-35-6	35	25	29	11		M-6
ML-35-8	35	25	29	11		M-8
ML-50-8	50	35	41	14		M-8

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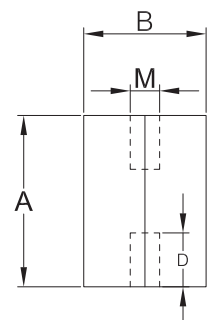
2 IEC 439-1, IEC 439-2, IEC 865-1

1 VDE 0660-500, VDE 0103/1.61,

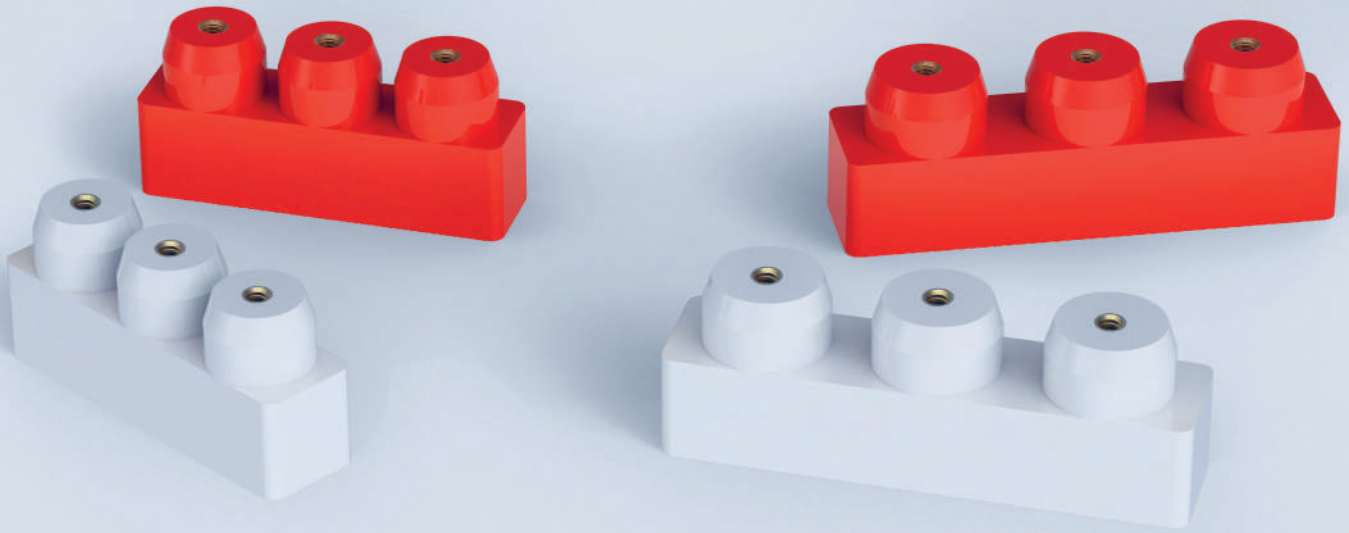
VDE 57100

4 DIN 43671

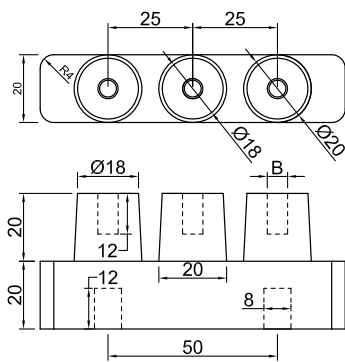
3 BS 5486 PART 1 : 1990



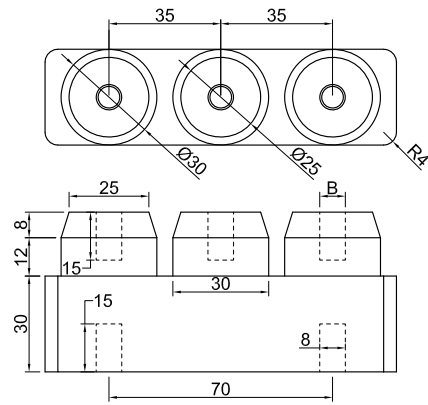
BUSBAR HOLDERS & BUSBAR SUPPORTS



Material glass fiber reinforced unsaturated polyester



▶ ML 125-3P 4090

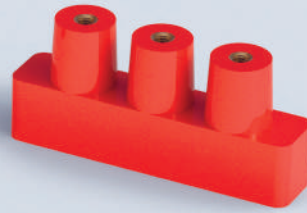
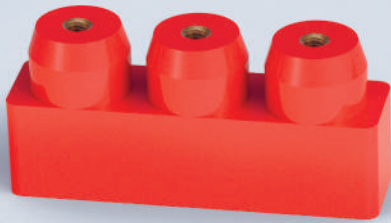


▶ ML 250-3P 50110

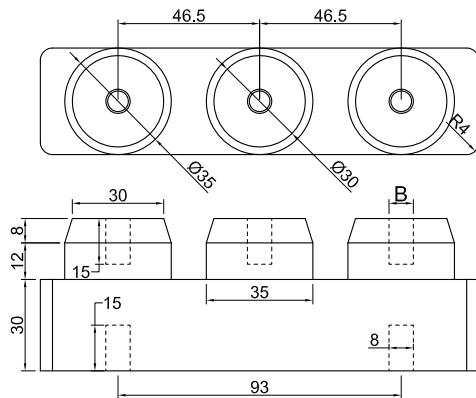
MODEL	COLOR	BUSH SIZE	BOX
ML125-3P4090-6MW	White	M-6	150
ML125-3P4090-6MR	Red	M-6	150
ML125-3P4090-8MW	White	M-8	150
ML125-3P4090-8MR	Red	M-8	150

MODEL	COLOR	BUSH SIZE	BOX
ML250-3P50110-8MW	White	M-8	150
ML250-3P50110-8MR	Red	M-8	150
ML250-3P50110-10MW	White	M-10	150
ML250-3P50110-10MR	Red	M-10	150

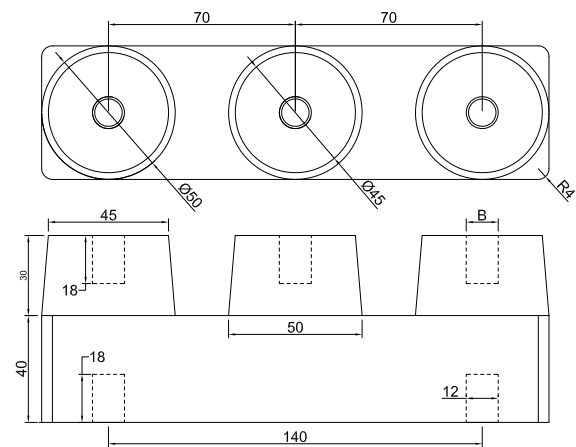
BUSBAR HOLDERS & BUSBAR SUPPORTS



Material glass fiber reinforced unsaturated polyester



▶ ML 463-3P 50144



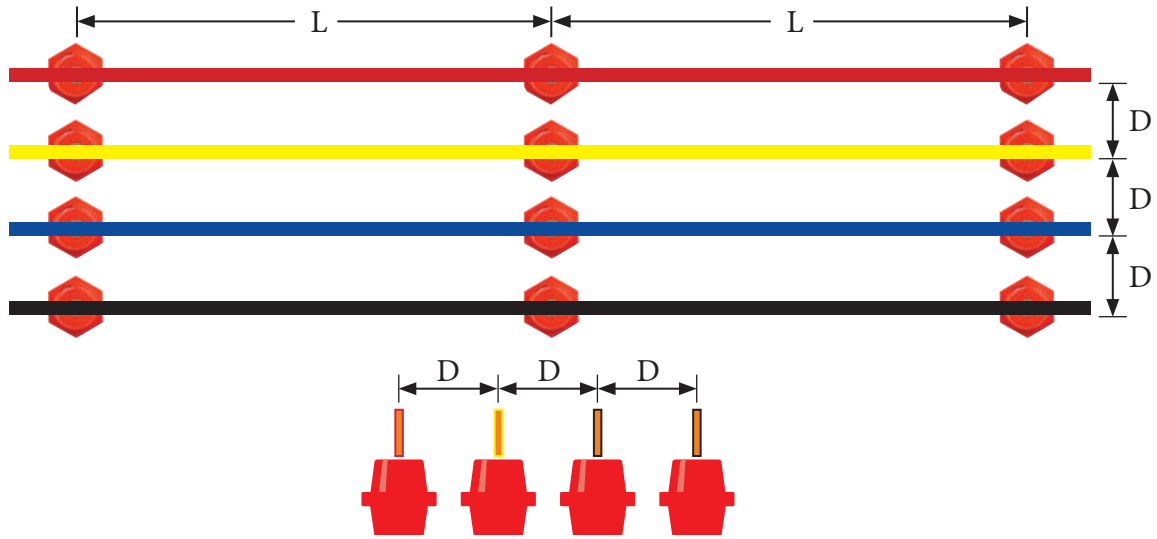
▶ ML 800-3P 50190

MODEL	COLOR	BUSH SIZE	BOX
ML463-3P50144-10MW	White	M-10	100
ML463-3P50144-10MR	Red	M-10	100
ML463-3P50144-12MW	White	M-12	100
ML463-3P50144-12MR	Red	M-12	100

MODEL	COLOR	BUSH SIZE	BOX
ML800-3P50190-10MW	White	M-10	60
ML800-3P50190-10MR	Red	M-10	60
ML800-3P50190-12MW	White	M-12	60
ML800-3P50190-12MR	Red	M-12	60

BUSBAR SUPPORTS SELECTION GUIDE

Selection guide of l distance and choose busbar holder for short circuit type tested



Note

L = distance between two supports on the same phase (m.m)

D = distance between interphase (m.m)

Edge vertical mounting arrangement TP&N with three supports in the same phase.

The current carrying capacity of rectangular cross-section copper busbar

- For metric system; See DIN 43671

- For imperial system; See BS. 159 and C.D.A UK PUBLICATION#22 "COPPER FOR BUSBSR

Size of Copper Busbar (Metric)	Short Inter	Circuit phase	Lavel 10 Distance D	KA ₁ /S (m.m)	Short Inter	Circuit phase	Lavel 16 Distance D	KA ₁ /S (m.m)	Short Inter	Circuit phase	Lavel 25 Distance D	KA ₁ /S (m.m)
	30	50	75	100	30	50	75	100	30	50	75	100
5 x 20 x 1		400 (H30)	450 (H30)	550 (H30)				350 (H30)				
5 x 25 x 1		400 (H30)	500 (H30)	600 (H30)			300 (H30)	400 (H30)				
5 x 50 x 1	450 (H30)	600 (H30)	650 (H30)	800 (H30)		400 (H40)	500 (H40)	600 (H30)				350 (H40)
5 x 63 x 1		600 (H30)	700 (H30)	900 (H30)		400 (H40)	500 (H40)	600 (H30)			350 (H40)	400 (H40)
5 x 80 x 1		700 (H40)	800 (H30)	1000 (H30)		450 (H40)	550 (H40)	650 (H40)			400 (H50)	450 (H50)
5 x 100 x 1		800 (H40)	900 (H30)	1100 (H30)		500 (H50)	600 (H40)	700 (H40)			450 (H50)	500 (H50)
10 x 40 x 1		1000 (H40)	1100 (H40)	1300 (H30)			700 (H40)	750 (H40)				600 (H50)
10 x 50 x 1		1100 (H40)	1200 (H40)	1500 (H30)			800 (H40)	1000 (H40)				625 (H50)
10 x 63 x 1		1200 (H40)	1400 (H40)	1800 (H40)			900 (H50)	1100 (H50)				650 (H60)
10 x 80 x 1		1300 (H50)	1600 (H40)	2000 (H40)			1000 (H50)	1200 (H60)				800 (H60)
10 x 100 x 1		1400 (H50)	1800 (H40)	2100 (H40)				1300 (H60)				900 (H60)

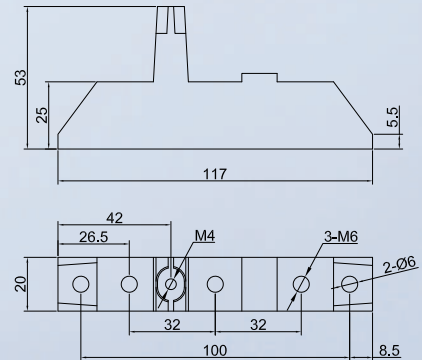
BUSBAR SUPPORTS



► MLB-3117-W

► MLB-3117-R

Material glass fiber reinforced unsaturated polyester for vertical and horizontal busbar laying

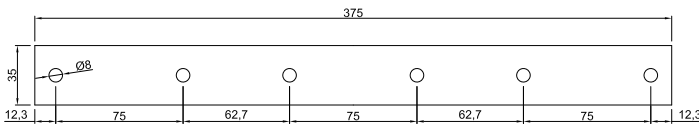


Model	Quantity (pc/box)
MLB-3117-R	10
MLB-3117-W	10

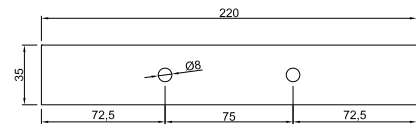
Technical data of the material

Description	Astm method	Value	Unit
Specific Gravity	D795	1.91+0.02	g/cc
Mold Shrinkage	D570	0.02+0.03	%
Barcol Hardness	D2583	70	HRC
Heat Distortion Temperature	D648	400	°F
Impact Strength (Ixod)	D256	4.5	Ft-lb/in notch
CaCo ₃		45	% (about)
Glass Fiber 9 MM.		19	% (about)
Linear expansion Coefficient		Under 2.0	105/°C
Flexural Strength	D790	1500	kg/cm ²
Flexural modulus	D790	12	GPa
Tensile Strength	D638	500	kg/cm ²
Compressive Strength	D895	1600	kg/cm ²
Shear Strength	D732	800	kg/cm ²
Charpy Impact Strength	JIS-K6911	40	kJ/m ²
Water Absorption (boiling)	D570	Under 0.15	%
Insulation resistance	Normal	Over 10 ¹³	Ohm
	After boiling	Over 10 ¹¹	Ohm
Dielectric Streng (Short time)	D149	Over 12	kV/mm
Dissipation Factor, 50/60 Hz	D150	0.02	V/mm
Dielectric Constant, 50/60 Hz	D150	4.9	V/mm
Arc Resistance	D495	180	Sec
Tracking resistance	IEC-112	Over 100V	CTI
Heat resistance	D495	180°C 2 hr	-
Flammability	UL-94	HB	-

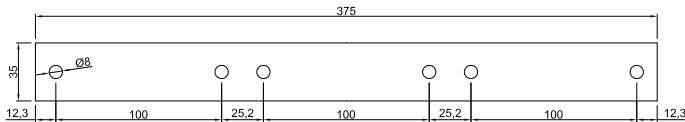
ACCESSORIES BUSBAR SUPPORTS



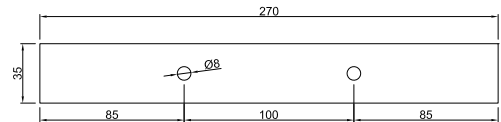
▶ ABS-100 (375 mm.)



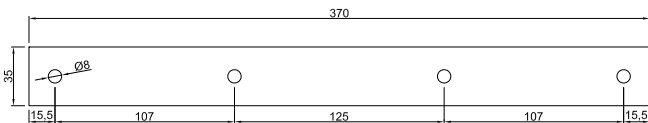
▶ ABS-220 (220 mm.)



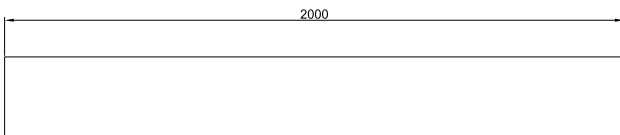
▶ ABS-124 (375 mm.)



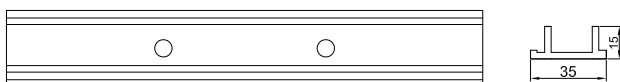
▶ ABS-270 (270 mm.)



▶ ABS-370 (370 mm.)

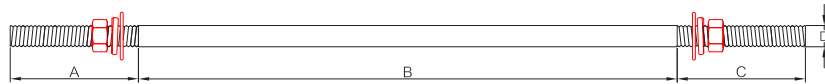


▶ ABS-2000 (2,000 mm.)



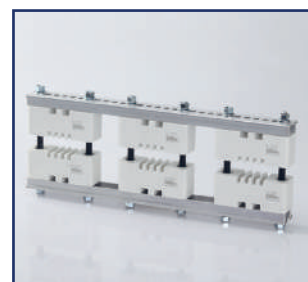
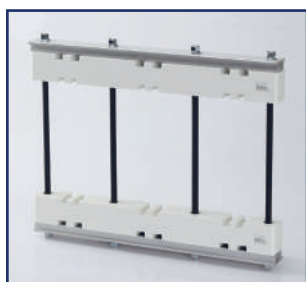
Aluminium Support	Quantity
ABS-100 (375 mm.)	2
ABS-124 (375 mm.)	2
ABS-220 (220 mm.)	2
ABS-270 (270 mm.)	2
ABS-370 (370 mm.)	2
ABS-2000 (2,000 mm.)	2

ACCESSORIES BUSBAS SUPPORTS



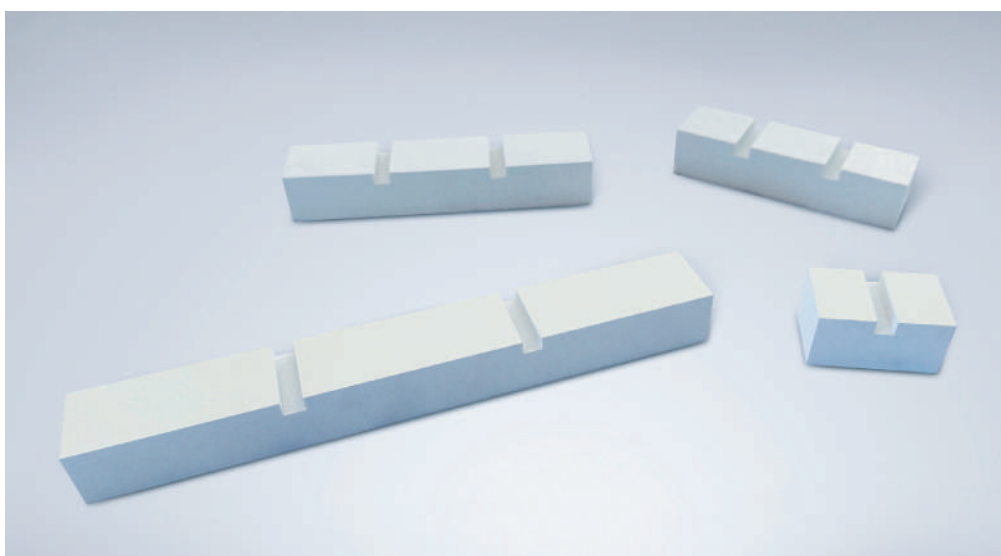
Model	Quantity	A/mm.	B/mm.	C/mm.	DØ
STUD 8X150+PVC+NUT	10	50	50	50	8
STUD 8X200+PVC+NUT	10	50	100	50	8
STUD 8X250+PVC+NUT	10	50	150	50	8
STUD 8X300+PVC+NUT	10	50	200	50	8

Products Guideline



BUSBAR SUPPORT HM, VAM, VFM

TECHNICAL DATA SHEET – FIBON 2040 - ELECTRICAL DIVISOV



TYPE	COLOR
20X25X2340 mm.	White
20x40x2340 mm.	White

รับตัดเจาะร่องตามขนาดที่ลูกค้าต้องการ

TECHNICAL DATA SHEET – FIBON 2040 - ELECTRICAL DIVISOV

Physical Properties	Proprietes Physiques	Physikalische Eigenschaften	% Glass	% De Verre	% Glass
Density	Densite	Dichte		ASTM D792 - 86	g/cm ³ 1.65
Hardness	Durete	Harte		AS 1546 - 90	Barcol 934 42
Water Absorption	Absorption d'eau	Wasseraufnahme		ISO 62 - 1980	% 0.04
Specific Gravity	Specific Gravity	Specific Gravity		ASTM D792 - 86	g/cm ³ 1.68
Termal Properties	Proprietes Thermiques	Wareverhalten			
Onset Decomposition Temperature	Onset Decomposition Temperature	Onset Decomposition Temperature		Thermogravimetric Analysis (TGA)	°C 240.75
Coefficient Of Thermal expansion	Coefficient de Thermiques dilatation			Thermomechanical Analysis (TMA) ASTM E 831 - 86	10- 4 / °C 1.191
Mechanical Properties	Proprietes Mecaniques	Meachanische Eigenschaften			
Flexural Strength	Contraninte de rupture en flexion	Beigefestigkeit	AS 2132 - 78		
			(i) Lengthwise	N / mm ²	115.6
Tensile Strength	Resistance en traction	Zugfestigkeit	ISO R3268 - 78		
			(i) Lengthwise	N / mm ²	80.9
Flexural Modulus of Elasticity	Module en flexion	Beigemodul	AS 2132 - 78		
			(ii) Crosswise	N / mm ²	110.2
Impact Strenght (Charpy untouched)	Resistance a impact charpy Sans entaille	Schlagfestigkeit nach charpy ungekerbt	ASTM D256 - 88		
			Pendulum used : 7.5J	KJ / m ²	40.44
Impact Resistance (Ball Drop)	Resistance a impact	Schlagfestiigkeit nachball	AS 1546 App. D		Comply H / 150 mm. H / 750 mm. No surface cracks occurred
Flame Retardant Properties	Proprietes Retardatrices A La Flamme	Flammhemmende Eigenschaften			
Flammability Resistance Text	Flammability Resistance Text	Flammability Resistance Text	ASTM D635 - 91		- Self Exting-uishing
Flame Retardant	Flame Retardant	Flame Retardant	UL 94		- Self Exting-uishing (94 V - 0)

TECHNICAL DATA SHEET – FIBON 2040 - ELECTRICAL DIVISOV

Electrical Properties	Proprietes Physiques	Physikalische Eigenschaften			
Dielectric Strength	Resistance electrique	Elektrische Widerstandsfajogkeit	ASTM 149 / 87	KV / mm	14
Surface Resistivity	Resistivite Superficielle	Spezifischer Oberflächenwiderstand	ASTM D257	Ohm Ohm	1.4×10^{12} $12.146 \log_{10}$
Breakdown Voltage	Perfes disolement	Voltangenswiderstand	ASTM 149	KV	24.0
Volume Resistance	Resistivite volumique	Spezikiseher Durchgangswiderstand	ASTM D257	Ohm.cm Ohm.cm	5.2×10^{13} $13.716 \times \log_{10}$
Other Properties	on request	ISO / ES / IEC / ASTM / AS / MS SISIR			
* Comparative Tracking Resistance	Resistance coparatice de cheminement	Verglerchende Kriechstromfestigkeit	IEC 112 / 79	CTI	>600
* Insulation Resistance	Resistance disolement	Isolationswiderstand	BS 903 / C5 BS 2782 / 2 IEC 167	\log_{10}	>13

NOTE : *Conversion in progress

Due to our continuous research and development program we reserve the right to amend and delete the specifications on the products without prior notice.

