

PRODUCT OVERVIEW

Murata is a premier provider of high-density, titanium-efficiency power shelves that meet the growing demands of data center applications including Open Compute Project. These racks are designed for industry-standard widths of 19 inches (482.6mm) and 21 inches (533.4mm).

This Application Note describes in detail, the Murata installation kits needed to install 19-inch power shelves into data center racks.

Each kit below provides the required bracketry and assembly hardware for specific rack installations.

ORDERING GUIDE

Part Number	Applicable Power Shelf	Applicable BBU Shelf	Standard	Remarks
MWOC-KIT-6	MWOCES-192-A		V2, single power zone (Rittal)	
MWOC-KIT-7	MWOCES-192-A		V2, dual power zone (Rittal)	
MWOC-KIT-8	MWOCES-211-G		V2, single power zone (Rittal)	
MWOC-KIT-9	MWOCES-211-G		V2, dual power zone (Rittal)	
MWOC-KIT-20	MWOCES-192-A		V1, dual power zone (Rittal)	
MWOC-KIT-21	MWOCES-191-M-B		V1, dual power zone (Rittal)	
MWOC-KIT-23	MWOCES-211-G		V2	Cannot be used alone
MWOC-KIT-26	MWOCES-192-A MWOCES-192-M		V2, single power zone (Rittal)	
MWOC-KIT-27	MWOCES-192-A MWOCES-192-M		V2, dual power zone (Rittal)	
MWDC-KIT-12	MWDCES-191 MWOCES-191-M-B		EIA, ESA	
MWBB-KIT-2	MWOCES-192-A MWOCES-192-M	MWBBES-212-A	V2, single power zone (Rittal)	MWOC-KIT-7 or 27 need to purchase
MWBB-KIT-3	MWOCES-192-A MWOCES-192-M	MWBBES-212-A	For an explanation the BBU shelf	
MWBB-KIT-5	MWOCES-211-G	MWBBES-212-A	V2, single power zone (Rittal)	MWOC-KIT-23 need to purchase
MWBB-KIT-8	MWOCES-211-G	MWBBES-212-A	V2, dual power zone (Rittal)	MWOC -KIT-23 need to purchase



For full details go to:
www.murata-ps.com/rohs

RACK MOUNT KIT CONTENTS

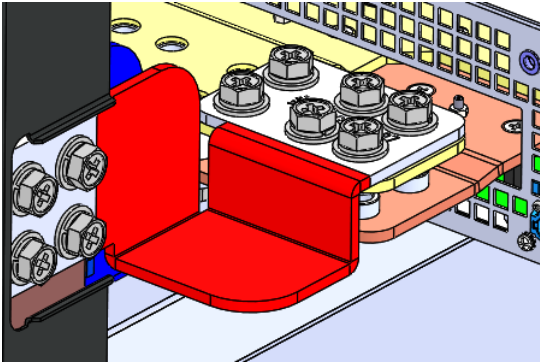
Part Number	Content name	Quantity	Product weight (kg)	Packing size (L * W * H mm)	Packing Weight (kg)
MWOC-KIT-6	TRAY	1	10.0	862*796*134	13.3
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M4×10 SEMS SCREW	4			
	M8×14 UPSET BOLT	28			
	6×10 S-TITE SCREW	2			
MWOC-KIT-7	TRAY	1	9.7	862*796*134	13.0
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M4×10 SEMS SCREW	4			
	M8×14 UPSET BOLT	20			
	6×10 S-TITE SCREW	2			
MWOC-KIT-8	TRAY	1	6.7	856*856*164	11.2
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M8×14 UPSET BOLT	22			
	6×10 S-TITE SCREW	2			
MWOC-KIT-9	TRAY	1	9.7	862*796*134	13.0
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M8×14 UPSET BOLT	14			
	6×10 S-TITE SCREW	2			
MWOC-KIT-20	TRAY	1	11.53	856*856*152	16.0
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L1, L2, L3	1			
	BUSBAR-BRIDGE R1, R2, R3	1			
	M4×10 SEMS SCREW	4			
	M8×14 UPSET BOLT	20			
	6×10 S-TITE SCREW	2			
MWOC-KIT-21	TRAY	1	8.67	856*856*164	13.2
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	24			
MWOC-KIT-23	TRAY	1	6.98	709*643*134	
	6×10 S-TITE SCREW	2			
MWOC-KIT-26	TRAY	1			
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	28			
	6×10 S-TITE SCREW	2			

RACK MOUNT KIT CONTENTS

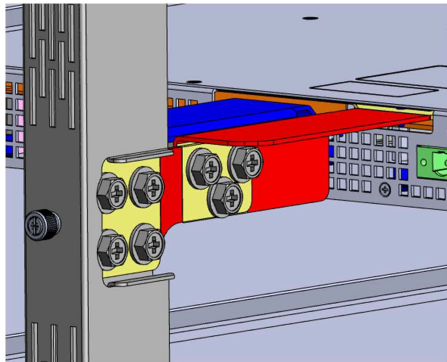
Part Number	Content name	Quantity	Product weight (kg)	Packing size (L * W * H mm)	Packing Weight (kg)
MWOC-KIT-27	TRAY	1			
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	20			
	6×10 S-TITE SCREW	2			
MWDC-KIT-12	ANGLE L1, L2	1	2.0	656*175*108	2.6
	ANGLE R1, R2	1			
	M5×14 SEMS SCREW	22			
	M5 FLANGE NUT	12			
MWBB-KIT-2	BUSBAR-BRIDGE L	1	3.2	506*468*173	4.2
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×18 UPSET BOLT	12			
	M3×20 BIND HEAD SCREW	2			
	FG CABLE	1			
MWBB-KIT-3	SIGNAL CABLE	1	0.9	443*388*326	5.7
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×18 UPSET BOLT	12			
	FG CABLE	1			
MWBB-KIT-5	SIGNAL CABLE	1	1.3	490*452*140	
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×12 UPSET BOLT	22			
	M8×18 UPSET BOLT	12			
	M3×20 BIND HEAD SCREW	2			
	FG CABLE	1			
MWBB-KIT-8	SIGNAL CABLE	1	1.0	443*388*326	2.46
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×12 UPSET BOLT	14			
	M8×18 UPSET BOLT	12			
	M3×20 BIND HEAD SCREW	2			
	FG CABLE	1			
MWBB-KIT-8	SIGNAL CABLE	1			

BUSBAR INSTALLATION EXAMPLE ILLUSTRATIONS

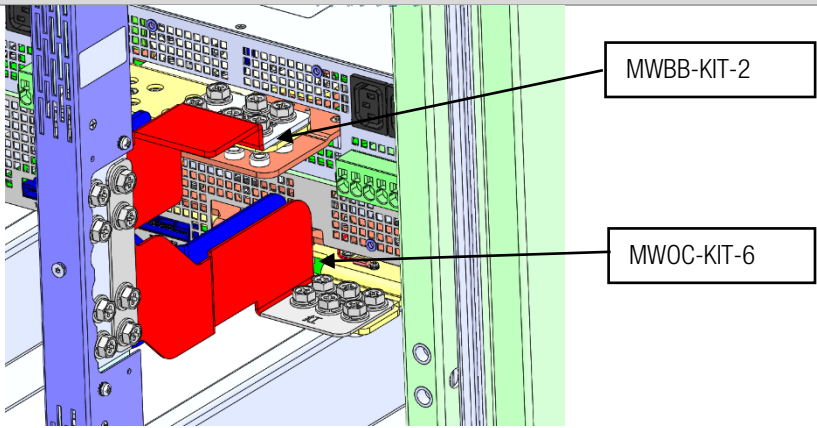
MWOC-KIT-27 (TYPE: MWOCES-192-M)



MWOC-KIT-9 (TYPE: MWOCES-211-G)



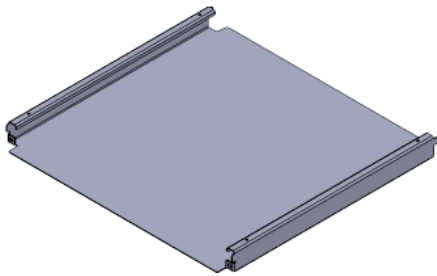
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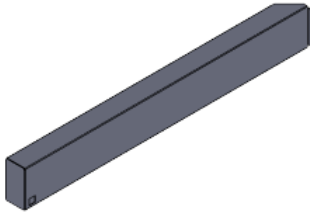
KIT CONTENT ILLUSTRATIONS

MWOC-KIT-6

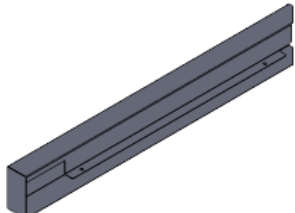
Tray



Adjuster L



Adjuster R



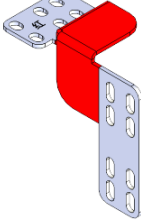
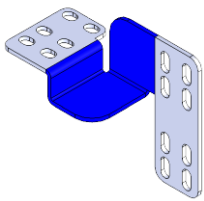
BUSBAR-BRIDGE L

BUSBAR-BRIDGE R

M4×10 SEMS SCREW

M8×14 UPSET BOLT

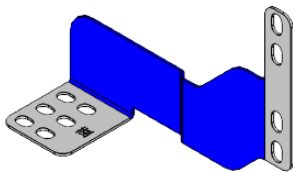
6×10 S-TITE SCREW



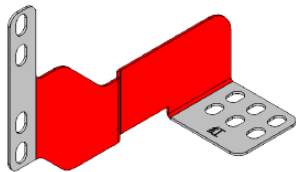
KIT CONTENT ILLUSTRATIONS

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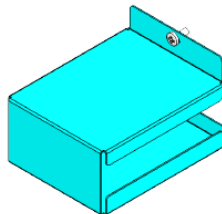
BUSBAR-BRIDGE L



BUSBAR-BRIDGE R



COVER



M8×18 UPSET BOLT



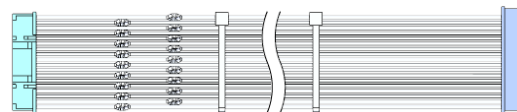
IND HEAD SCREW



FG CABLE

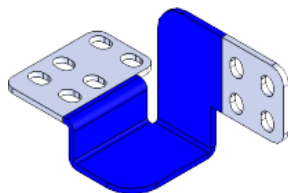


SIGNAL CABLE

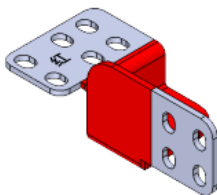


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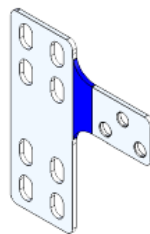
BUSBAR-BRIDGE L



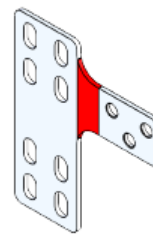
BUSBAR-BRIDGE R



BUSBAR-BRIDGE L

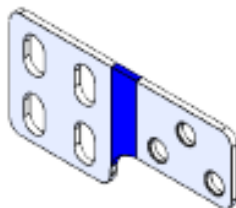


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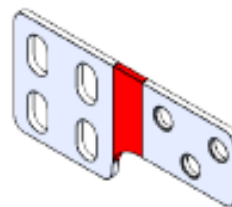


MWOC-KIT-9

BUSBAR-BRIDGE L

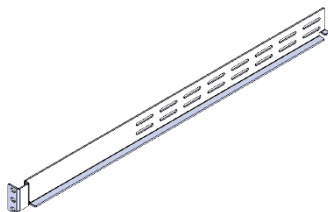


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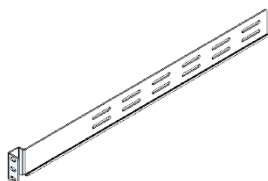


MWDC-KIT-12

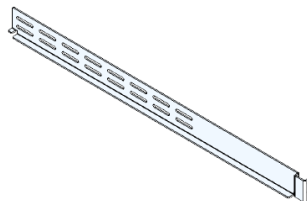
ANGLE L1



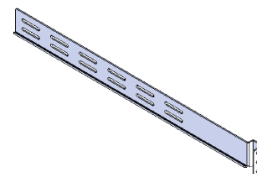
ANGLE L2



ANGLE R1



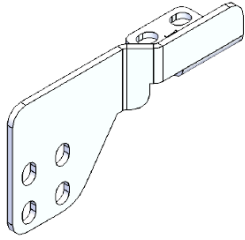
ANGLE R2



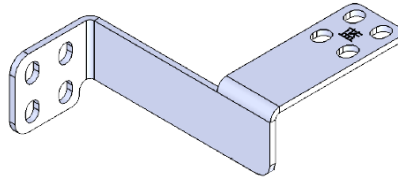
KIT CONTENT ILLUSTRATIONS

MWOC-KIT-20

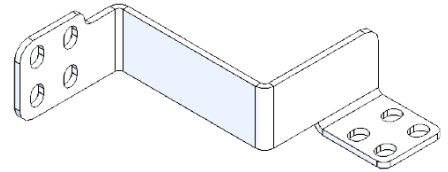
BUSBAR-BRIDGE L1



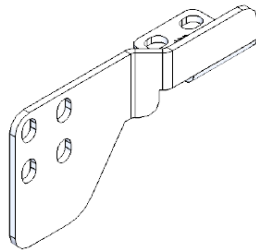
BUSBAR-BRIDGE L2



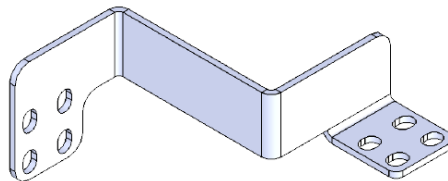
BUSBAR-BRIDGE L3



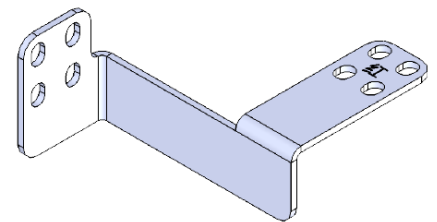
BUSBAR-BRIDGE R1



BUSBAR-BRIDGE R2

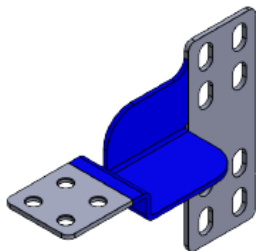


BUSBAR-BRIDGE R3

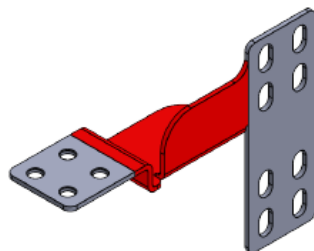


MWOC-KIT-21

BUSBAR-BRIDGE L

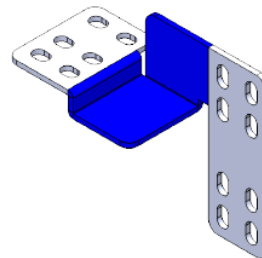


BUSBAR-BRIDGE R

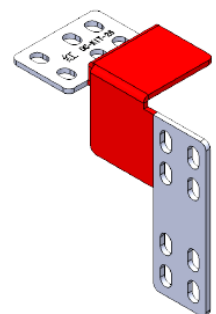


MWOC-KIT-26

BUSBAR-BRIDGE L

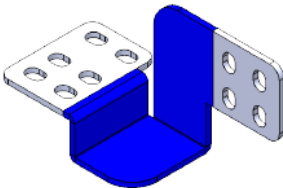


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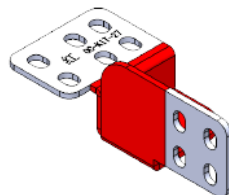


MWOC-KIT-27

BUSBAR-BRIDGE L

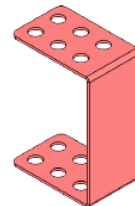


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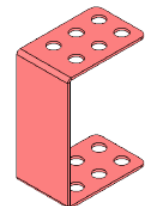


MWBB-KIT-3

USBAR-BRIDGE L

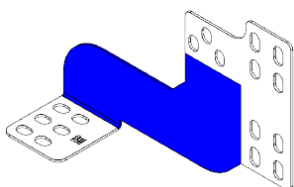


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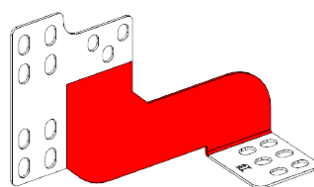


MWBB-KIT-5

BUSBAR-BRIDGE L

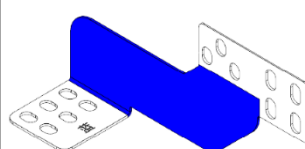


BUSBAR-BRIDGE R

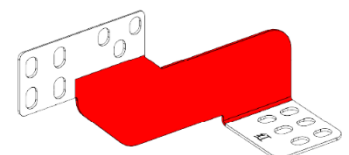


MWBB-KIT-8

SBAR-BRIDGE L



BUSBAR-BRIDGE R



RELATED PRODUCT DATASHEETS

Document Number	Description	Website Link to Datasheet
MWDCES-191	19" OCP POWER SHELF	MWDCES-191 series Datasheet 21" OCP Power Shelf Murata Power Solutions
MWOCES-192	19" OCP POWER SHELF	MWOCES-192 Series Datasheet Murata Power Solutions
MWOCES-211	21" OCP POWER SHELF	MWOCES-211 Datasheet 21" OCP Power Shelf Murata Manufacturing Co
MWBBS-212-A	21" BBU shelf	MWOCES-211 Datasheet 21" OCP Power Shelf Murata Manufacturing Co

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Ma 01581, USA.
ISO 9001 REGISTERED



Specifications are subject to change without notice.

This product is subject to the following operating requirements and the Life and Safety Critical Application

Sales Policy: Refer to: <https://www.murata-ps.com/requirements/>

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