

PRODUCT FAMILY DATASHEET

LED SUPERSTAR MR16 12 V

Dimmable low-voltage LED reflector lamps MR16 with retrofit pin base



AREAS OF APPLICATION

- Shops
- Hospitality
- Museums, art galleries
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Spotlighting for accents
- Display cabinets and shop windows
- Spotlighting heat-sensitive objects such as food, plants, etc.
- Outdoor applications only in suitable luminaires

PRODUCT BENEFITS

- Very long lifetime of up to 25,000 h
- Low energy consumption
- High color consistency thanks to narrow binning
- Easy replacement of halogen lamps due to compact full glass design and single optic
- Ideal for economical spotlighting

PRODUCT FEATURES

- LED alternative to conventional low voltage lamps
- Good quality of light; color rendering index $R_a \geq 80$
- High color consistency: ≤ 5 SDCM
- Dimmable (with many common dimmers, see also www.ledvance.com/dim)
- Made in Germany (versions up to incl. 35 W)
- Mercury-free lamps



TECHNICAL DATA

Product description	Electrical data			Photometrical data						Light technical data	Dimensions & weight
	Nominal wattage	Nominal voltage	Claimed equiv. conventional lamp power	Nominal luminous flux	Rated luminous flux	Color temperature	Color rendering index Ra	Lumen main.fact.at end of nom.life time	Light color (designation)	Warm-up time (60 %)	Overall length
SST MR16 20 36° 3 W/840 GU5.3 ¹⁾	3.00 W	12.0 V	20 W	230 lm	230 lm	4000 K	≥80	0.70	Cool White	< 0.50 s	46.0 mm
SST MR16 35 36° 5 W/827 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	2700 K	≥80	0.70	Warm White	< 0.50 s	46.0 mm
SST MR16 35 36° 5.9 W/827 GU5.3 ¹⁾	5.90 W	12.0 V	35 W	350 lm	350 lm	2700 K	80	0.70	Warm White	0.20 s	51.0 mm
SST MR16 35 36° 5 W/840 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	4000 K	≥80	0.70	Cool White	< 0.50 s	46.0 mm
SST MR16 35 36° 5 W/865 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	370 lm	370 lm	6500 K	80		Daylight		51.5 mm
SST MR16 50 24° 7 W/827 GU5.3 ¹⁾	7.00 W	12.0 V	50 W	500 lm	500 lm	2700 K	80		Warm White		51.5 mm
SST MR16 50 24° 6.5 W/827 GU5.3 ¹⁾	6.50 W	12.0 V	50 W	350 lm	350 lm	2700 K	80		Warm White		51.0 mm
SST MR16 50 24° 6.5 W/830 GU5.3 ¹⁾	6.50 W	12.0 V	50 W	350 lm	350 lm	3000 K	80		Warm White		51.0 mm
SST MR16 50 24° 6.5 W/865 GU5.3 ¹⁾	6.50 W	12.0 V	50 W	2300 lm	2300 lm	6500 K	80		Daylight		51.0 mm
SST MR16 50 36° 6.5 W/827 GU5.3 ¹⁾	6.50 W	12.0 V	50 W	350 lm	350 lm	2700 K	80		Warm White		51.0 mm
SST MR16 50 36° 7.8 W/827 GU5.3 ¹⁾	7.80 W	12 V	50 W	621 lm	621 lm	2700 K	≥80	0.70	Warm White	< 1.00 s	53.0 mm
SST MR16 50 36° 8.5 W/827 GU5.3 ¹⁾	8.50 W	12.0 V	50 W	621 lm	621 lm	2700 K	80	0.70	Warm White	0.20 s	55.8 mm
SST MR16 50 36° 7.8 W/840 GU5.3 ¹⁾	7.80 W	12 V	50 W	621 lm	621 lm	4000 K	≥80	0.70	Cool White	1.00 s	53.0 mm
SST MR16 50 36° 8.5 W/840 GU5.3 ¹⁾	8.50 W	12.0 V	50 W	621 lm	621 lm	4000 K	80	0.70	Cool White	0.20 s	55.8 mm
SST MR16 50 36° 6.5 W/865 GU5.3 ¹⁾	6.50 W	12.0 V	50 W	1460 lm	1460 lm	6500 K	80		Daylight		51.0 mm
SST MR16 50 36° 7 W/865 GU5.3 ¹⁾	7.00 W	12.0 V	50 W	500 lm	500 lm	6500 K	80		Daylight		51.5 mm
SST MR16 50 60° 7 W/865 GU5.3 ¹⁾	7.00 W	12 V	50 W	500 lm	500 lm	6500 K	80		Daylight		51.5 mm
SST MR16 35 24° 5 W/827 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	2700 K	80		Warm White		44.0 mm
SST MR16 35 24° 5 W/830 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	3000 K	80		Warm White		44.0 mm
SST MR16 35 36° 5 W/827 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	2700 K	80		Warm White		44.0 mm
SST MR16 35 36° 5 W/830 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	3000 K	80		Warm White		44.0 mm
SST MR16 35 36° 5 W/865 GU5.3 ¹⁾	5.00 W	12.0 V	35 W	350 lm	350 lm	6500 K	80		Daylight		44.0 mm
SST MR16 12 V 50 15° 6 W/827 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	470 lm	470 lm	2700 K	80		Warm White		44.0 mm
SST MR16 50 24° 6 W/827 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	2700 K	80		Warm White		44.0 mm
SST MR16 50 24° 6 W/830 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	3000 K	80		Warm White		44.0 mm

	Electrical data			Photometrical data						Light technical data	Dimensions & weight
Product description	Nominal wattage	Nominal voltage	Claimed equiv. conventional lamp power	Nominal luminous flux	Rated luminous flux	Color temperature	Color rendering index Ra	Lumen main.fact.at end of nom.life time	Light color (designation)	Warm-up time (60 %)	Overall length
SST MR16 50 36° 6 W/827 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	2700 K	80		Warm White		44.0 mm
SST MR16 50 36° 6 W/830 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	3000 K	80		Warm White		44.0 mm
SST MR16 50 36° 6 W/865 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	6500 K	80		Daylight		44.0 mm
SST MR16 50 60° 6 W/830 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	3000 K	80				44.0 mm
SST MR16 50 60° 6 W/865 GU5.3 ¹⁾	6.00 W	12.0 V	50 W	500 lm	500 lm	6500 K	80				44.0 mm

Product description	Diameter	Lifespan		Additional product data		Capabilities	Certificates & standards	
		Nominal lamp life time	Number of switching cycles	Base (standard designation)	Mercury-free	Dimmable	Energy consumption	Energy efficiency class
SST MR16 20 36° 3 W/840 GU5.3 ¹⁾	51.0 mm	25000 h	100000	GU5.3	Yes	Yes	3 kWh/1000h	A+
SST MR16 35 36° 5 W/827 GU5.3 ¹⁾	51.0 mm	25000 h	100000	GU5.3	Yes	Yes	5 kWh/1000h	A+
SST MR16 35 36° 5.9 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes ²⁾	6 kWh/1000h	A
SST MR16 35 36° 5 W/840 GU5.3 ¹⁾	51.0 mm	25000 h	100000	GU5.3	Yes	Yes	5 kWh/1000h	A+
SST MR16 35 36° 5 W/865 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 24° 7 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 24° 6.5 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 24° 6.5 W/830 GU5.3 ¹⁾	49.6 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 24° 6.5 W/865 GU5.3 ¹⁾	49.6 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 36° 6.5 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 36° 7.8 W/827 GU5.3 ¹⁾	51.0 mm	25000 h	100000	GU5.3	Yes	Yes	8 kWh/1000h	A+
SST MR16 50 36° 8.5 W/827 GU5.3 ¹⁾	49.6 mm	25000 h	100000	GU5.3	Yes	Yes ³⁾	9 kWh/1000h	A+
SST MR16 50 36° 7.8 W/840 GU5.3 ¹⁾	51.0 mm	25000 h	100000	GU5.3	Yes	Yes	8 kWh/1000h	A+
SST MR16 50 36° 8.5 W/840 GU5.3 ¹⁾	49.6 mm	25000 h	100000	GU5.3	Yes	Yes ³⁾	9 kWh/1000h	A+
SST MR16 50 36° 6.5 W/865 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 36° 7 W/865 GU5.3 ¹⁾	50.7 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 60° 7 W/865 GU5.3 ¹⁾	50.7 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 35 24° 5 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	200000	GU5.3	Yes	Yes		

Product description	Diameter	Lifespan		Additional product data		Capabilities	Certificates & standards	
		Nominal lamp life time	Number of switching cycles	Base (standard designation)	Mercury-free	Dimmable	Energy consumption	Energy efficiency class
SST MR16 35 24° 5 W/830 GU5.3 ¹⁾	50.0 mm	25000 h	200000	GU5.3	Yes	Yes		
SST MR16 35 36° 5 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	200000	GU5.3	Yes	Yes		
SST MR16 35 36° 5 W/830 GU5.3 ¹⁾	50.0 mm	25000 h	200000	GU5.3	Yes	Yes		
SST MR16 35 36° 5 W/865 GU5.3 ¹⁾	50.0 mm	25000 h	200000	GU5.3	Yes	Yes		
SST MR16 12 V 50 15° 6 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 24° 6 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 24° 6 W/830 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 36° 6 W/827 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 36° 6 W/830 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 36° 6 W/865 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 60° 6 W/830 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		
SST MR16 50 60° 6 W/865 GU5.3 ¹⁾	50.0 mm	25000 h	100000	GU5.3	Yes	Yes		

Country specific categorizations

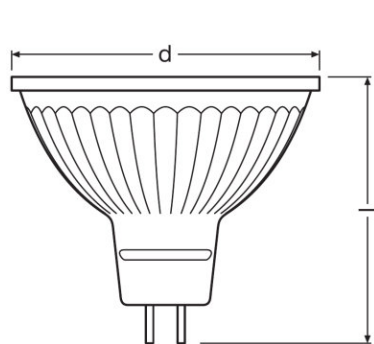
Product description	ILCOS
SST MR16 20 36° 3 W/840 GU5.3 ¹⁾	DRR-3/840-12-GU5.3-50/36
SST MR16 35 36° 5 W/827 GU5.3 ¹⁾	DRR-5/827-12-GU5.3-50/36
SST MR16 35 36° 5.9 W/827 GU5.3 ¹⁾	DRR-6,5-12-GU5,3-50/36
SST MR16 35 36° 5 W/840 GU5.3 ¹⁾	DRR-5/840-12-GU5.3-50/36
SST MR16 35 36° 5 W/865 GU5.3 ¹⁾	
SST MR16 50 24° 7 W/827 GU5.3 ¹⁾	
SST MR16 50 24° 6.5 W/827 GU5.3 ¹⁾	
SST MR16 50 24° 6.5 W/830 GU5.3 ¹⁾	
SST MR16 50 24° 6.5 W/865 GU5.3 ¹⁾	
SST MR16 50 36° 6.5 W/827 GU5.3 ¹⁾	
SST MR16 50 36° 7.8 W/827 GU5.3 ¹⁾	DRR-7,8/827-12-GU5,3-50/36
SST MR16 50 36° 8.5 W/827 GU5.3 ¹⁾	DRR-8,5/827-12-GU5.3-50/36
SST MR16 50 36° 7.8 W/840 GU5.3 ¹⁾	DRR-7,8/840-12-GU5,3-50/36
SST MR16 50 36° 8.5 W/840 GU5.3 ¹⁾	DRR-8,5/840-12-GU5.3-50/36

Product description	Country specific categorizations
	ILCOS
SST MR16 50 36° 6.5 W/865 GU5.3 ¹⁾	
SST MR16 50 36° 7 W/865 GU5.3 ¹⁾	
SST MR16 50 60° 7 W/865 GU5.3 ¹⁾	
SST MR16 35 24° 5 W/827 GU5.3 ¹⁾	
SST MR16 35 24° 5 W/830 GU5.3 ¹⁾	
SST MR16 35 36° 5 W/827 GU5.3 ¹⁾	
SST MR16 35 36° 5 W/830 GU5.3 ¹⁾	
SST MR16 35 36° 5 W/865 GU5.3 ¹⁾	
SST MR16 12 V 50 15° 6 W/827 GU5.3 ¹⁾	
SST MR16 50 24° 6 W/827 GU5.3 ¹⁾	
SST MR16 50 24° 6 W/830 GU5.3 ¹⁾	
SST MR16 50 36° 6 W/827 GU5.3 ¹⁾	
SST MR16 50 36° 6 W/830 GU5.3 ¹⁾	
SST MR16 50 36° 6 W/865 GU5.3 ¹⁾	
SST MR16 50 60° 6 W/830 GU5.3 ¹⁾	
SST MR16 50 60° 6 W/865 GU5.3 ¹⁾	

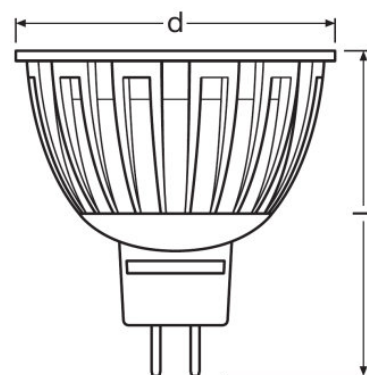
¹⁾ All technical parameters apply to the entire lamp/Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value

²⁾ With many common dimmers

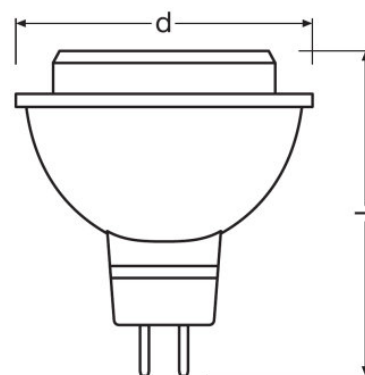
³⁾ With many common dimmers, see also www.ledvance.com/dim



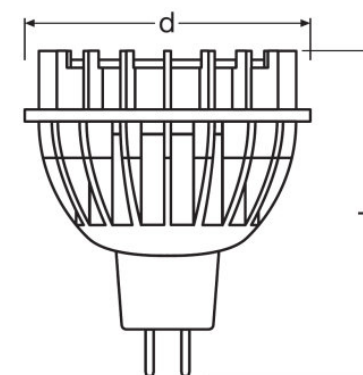
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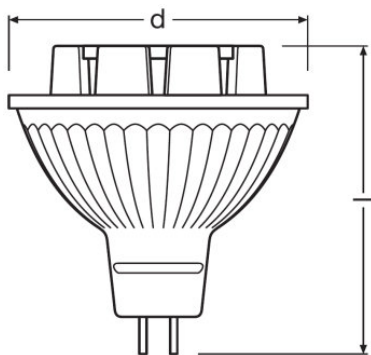
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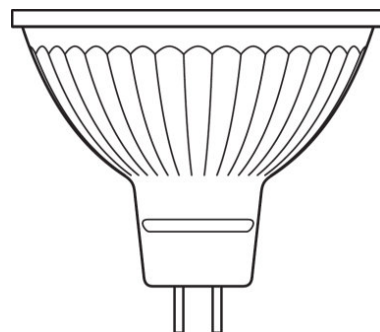
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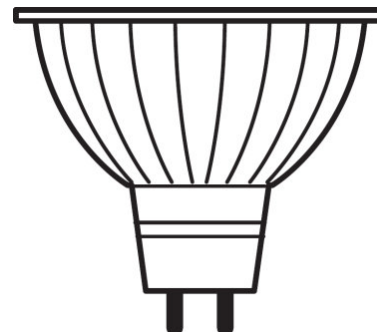
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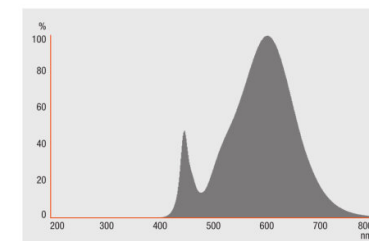
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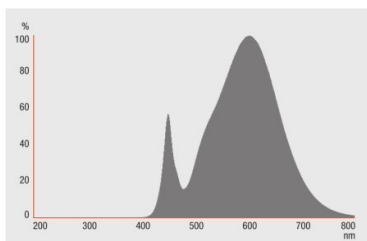
SST MR16 35 24° 5 W/827 GU5.3, SST MR16 35 24° 5 W/830 GU5.3, SST MR16 35 36° 5 W/827 GU5.3, SST MR16 35 36° 5 W/830 GU5.3, SST MR16 35 36° 5 W/865 GU5.3



SST MR16 12 V 50 15° 6 W/827 GU5.3, SST MR16 50 24° 6 W/827 GU5.3, SST MR16 50 24° 6 W/830 GU5.3, SST MR16 50 36° 6 W/827 GU5.3, SST MR16 50 36° 6 W/830 GU5.3, SST MR16 50 36° 6 W/865 GU5.3, SST MR16 50 60° 6 W/830 GU5.3, SST MR16 50 60° 6 W/865 GU5.3



SST MR16 35 36° 5 W/827 GU5.3



SST MR16 35 36° 5.9 W/827 GU5.3

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899390058	SST MR16 20 36° 3 W/840 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	654.00 g
4052899390072	SST MR16 35 36° 5 W/827 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	628.00 g
4008321882349	SST MR16 35 36° 5.9 W/827 GU5.3	Shipping carton box 6	351 mm x 100 mm x 139 mm	4.88 dm ³	642.00 g
4052899390096	SST MR16 35 36° 5 W/840 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	630.00 g
4052899303164	SST MR16 35 36° 5 W/865 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	717.00 g

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899303553	SST MR16 50 24° 7 W/827 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	717.00 g
4052899280830	SST MR16 50 24° 6.5 W/827 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	797.00 g
4052899280861	SST MR16 50 24° 6.5 W/830 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	807.00 g
4052899280892	SST MR16 50 24° 6.5 W/865 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	797.00 g
4052899280946	SST MR16 50 36° 6.5 W/827 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	797.00 g
4052899389991	SST MR16 50 36° 7.8 W/827 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	913.00 g
4052899944312	SST MR16 50 36° 8.5 W/827 GU5.3	Shipping carton box 6	311 mm x 89 mm x 112 mm	3.10 dm ³	597.00 g
4052899390119	SST MR16 50 36° 7.8 W/840 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	1019.00 g
4052899944329	SST MR16 50 36° 8.5 W/840 GU5.3	Shipping carton box 6	311 mm x 89 mm x 112 mm	3.10 dm ³	589.00 g
4052899281004	SST MR16 50 36° 6.5 W/865 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	797.00 g
4052899303348	SST MR16 50 36° 7 W/865 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	717.00 g
4052899303409	SST MR16 50 60° 7 W/865 GU5.3	Shipping carton box 10	273 mm x 113 mm x 100 mm	3.08 dm ³	717.00 g
4052899364592	SST MR16 50 60° 7 W/865 GU5.3	Shipping carton box 160	370 mm x 325 mm x 376 mm	45.21 dm ³	11000.00 g
4058075054417	SST MR16 35 24° 5 W/827 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	518.00 g
4058075054431	SST MR16 35 24° 5 W/830 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	518.00 g
4058075054455	SST MR16 35 36° 5 W/827 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	518.00 g

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075054479	SST MR16 35 36° 5 W/830 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	518.00 g
4058075054493	SST MR16 35 36° 5 W/865 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	518.00 g
4058075054516	SST MR16 12 V 50 15° 6 W/827 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	618.00 g
4058075054530	SST MR16 50 24° 6 W/827 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	618.00 g
4058075054554	SST MR16 50 24° 6 W/830 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	618.00 g
4058075054578	SST MR16 50 36° 6 W/827 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	618.00 g
4058075054608	SST MR16 50 36° 6 W/830 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	618.00 g
4058075054622	SST MR16 50 36° 6 W/865 GU5.3	Shipping carton box 10	255 mm x 107 mm x 72 mm	1.96 dm ³	618.00 g
4058075054820	SST MR16 50 60° 6 W/830 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	859.00 g
4058075054844	SST MR16 50 60° 6 W/865 GU5.3	Shipping carton box 10	290 mm x 254 mm x 134 mm	9.87 dm ³	859.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

REFERENCES / LINKS

For dimming conformity see

▶ www.ledvance.com/dim

For further products and actual information concerning LED lamps see

▶ www.ledvance.com/ledlamps

For Guarantee see

- ▶ www.ledvance.com/guarantee

Further information see

- ▶ www.ledvance.com/low-voltage-ledlamps

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.