

BKRS – walkable cable tray system

Effective protection of power supply cables and people in industry



Walkable and foot-sure throughout day-to-day industrial work

BKRS - walkable cable tray system

In hard, everyday industrial work, materials must be able to withstand all kinds of loads. This also applies to the electrical installation. Powerful protection against footfall, dust and many other loads is essential for supplying the systems with power and data reliably.

For these requirements, OBO offers its walkable BKRS cable tray system. The system is designed for the highest loads, which frequently occur in the vicinity of machines and automated production systems with robotic elements.

Our BKRS system is already appreciated by the giants of the automotive industry and features approvals in the factory standards of:

Ford

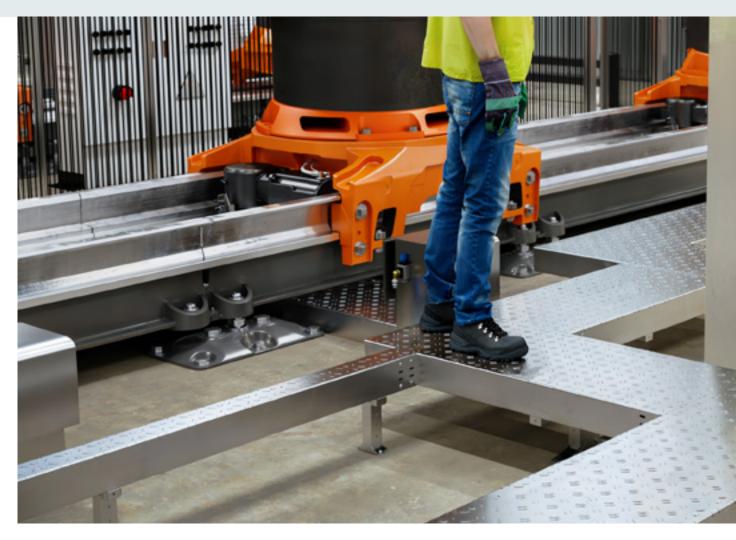
Mercedes-Benz Group

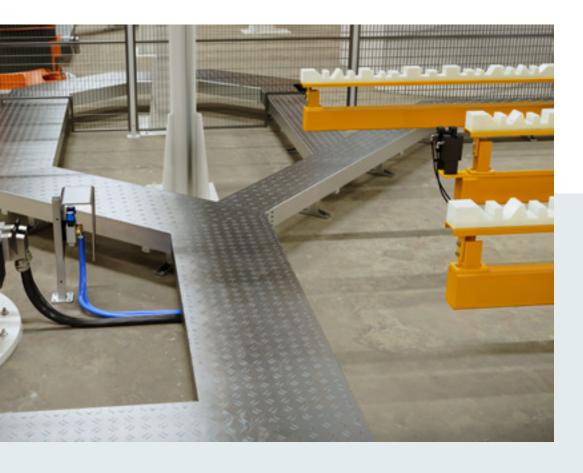
- BMW Group
- Volkswagen AG
- Volvo Car Corporations
- Jaguar Land Rover Ltd.

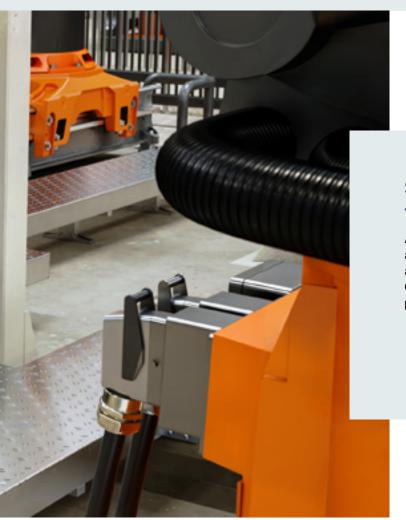
System sizes

The BRKS cable tray is available with the side heights 100 and 110 mm. The dimensions and materials mean that they satisfy the guidelines and requirements of numerous industries. With six widths between 100 and 600 mm available, there is a suitable cable tray system for every possible application.







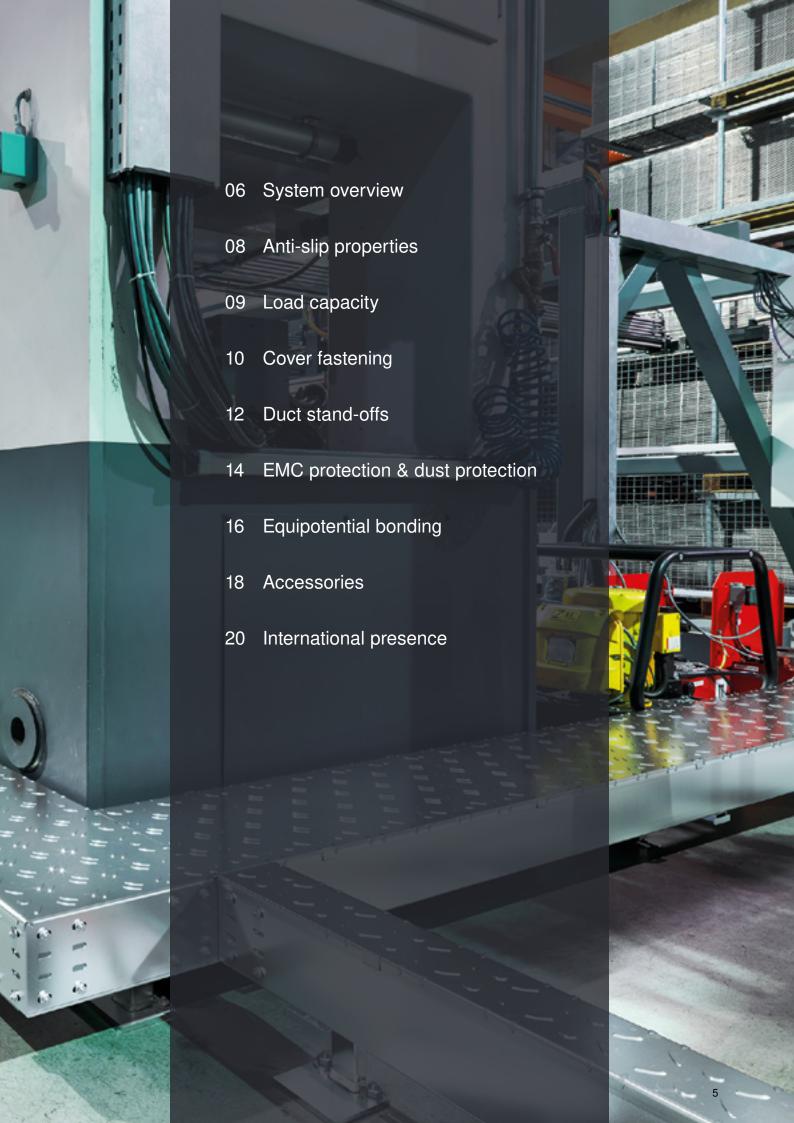


Safe power and data supply for the industry sector

Automated production lines and systems construction applications consume very large quantities of energy and data, and hence require numerous cables. OBO's walkable cable tray system offers effective protection for the numerous supply cables required.

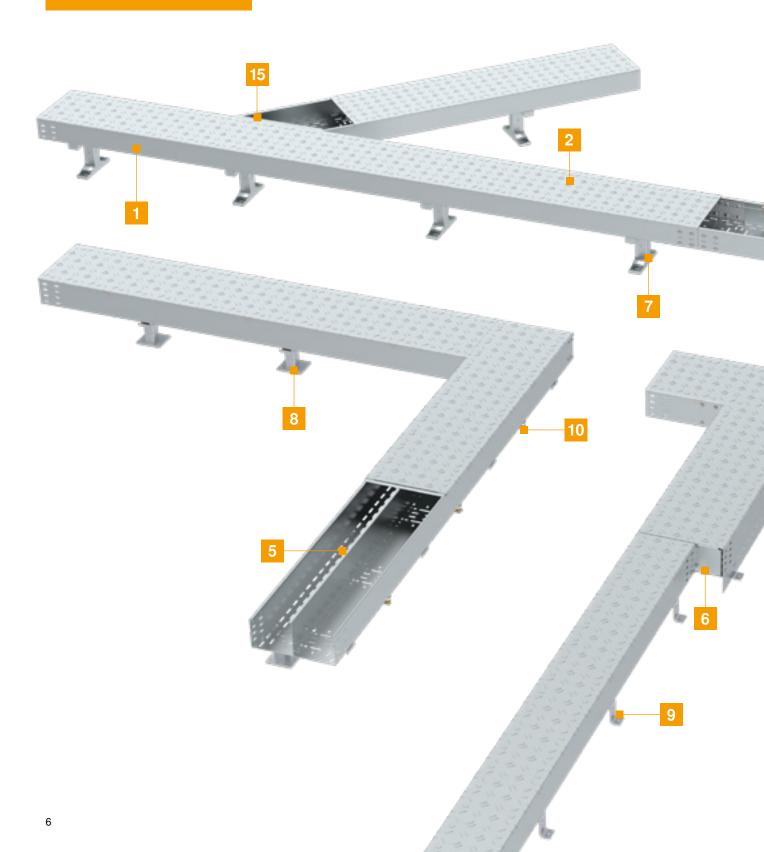


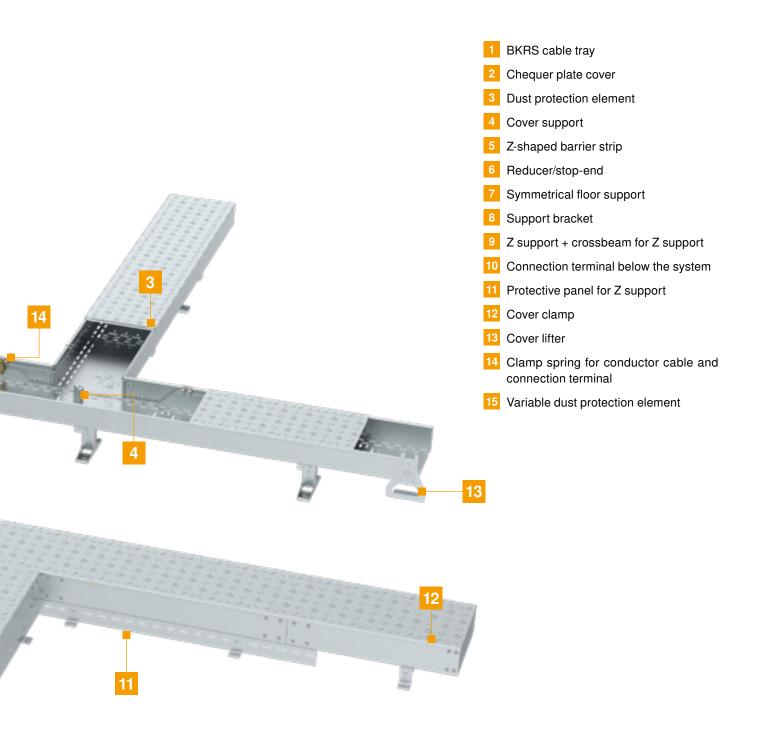




The walkable cable tray system at a glance

Side height 100 mm





Side height 110 mm

Protection at every turn

Slip protection and displacement area

The slip and step protection of the covers is immensely important for safe working on walkable cable trays. The newly developed chequer plate arrangement of the BKRS covers therefore ensures stability through optimum slip protection, minimising the risk of accidents in daily use.

The required classification is dependent on the place the cover is used and is described in BGR 181 "Floors in working areas with slippage risk" and ASR A1.5/1.2 "Technical rules for workplaces". The slip prevention of the covering surface is tested to DIN 51130 "Testing of floor coverings — Determination of the anti-slip property" with the ramp test walking method. Here, the slip prevention is tested on a ramp with different angles of inclination from 6° to > 35° and assigned according to the evaluation groups R9 (lowest requirements) to R13 (highest requirements).

The DBKR chequer plate cover fulfils the requirements of BGR and ASR, and with its certified anti-slip properties it is

suitable for most environments that are walked on and have a risk of slipping.

If, due to the use of the building, extreme soiling with slippery substances (e.g. oils, animal fats, etc.) is to be expected, the surface must provide an appropriate displacement area for those substances in order to ensure that walking on the surface is safe.

The specification is done using the designation "V" in connection with the index for the minimum volume of the displacement area. Here, the scale ranges from V4 (displacement volume: 4 cm³/dm²) to V10 (displacement volume: 10 cm³/dm²). In this respect, the BKRS chequer plate cover again supersedes the demands of most industries of V4 with a valuation group of V10.

- Safe, anti-slip entry and exit due to corrugation on the cover and cover edges
- Certified anti-slip class R11
- Certified displacement space class V10



Tested for maximum load capacity and high load-bearing capacity

Mechanical load capacity

Heavy loads, stamping feet, dirt, dust — OBO's enclosed, walkable cable tray systems can handle all this and more, thanks to their ingenious system design, and protect cables against damage. And all systems provide optimal shielding to ensure electromagnetic compatibility. Through the use of a barrier strip, power, control and data cables are insulated according to DIN EN 50174, to ensure electromagnetic compatibility. The trays and covers themselves provide perfect all-round protection for the cables. The cable tray, cover and barrier strips have a continuous material thickness of 2 mm and are highly mechanically stable as a composite.

In our in-house BET Test Centre, OBO simulates the loads that the walkable cable tray system has to withstand on a constant basis. We determine the maximum load capacity and carrying capacity of the system, as well as its resistance

to dust and corrosion. In other words, OBO places paramount importance on safety. The walkable cable tray system corresponds to the valid product standard IEC 61537 – Cable management, was tested according to all the relevant standards and, with the strip galvanised chequer plate cover, guarantees – depending on the installation type and subject to compliance with the mounting specifications – a footfall load of at least 350 kg according to EN 50085-2-2.

In order to ensure a safe maximum step load, the compartment size of 220 mm must be adhered to for the cable tray. This means one barrier strip is sufficient for a tray width of up to 300 mm, while at least two barrier strips need to be used for a width from 400 mm.



Cover fastening

The cover is fastened with a cover clamp or turn buckle.

The cover clamp was designed especially for the chequer plate cover. It can be mounted directly between the premarked ribs, as the chequer plate cover is matched to the cover clamp. This enables quick and easy mounting. The cover can be removed from the cable tray using two cover lifters.

The turn buckles enable cover fastening without screws. They can be mounted every 100 mm. Mounting is done using the knock-out in the cover.





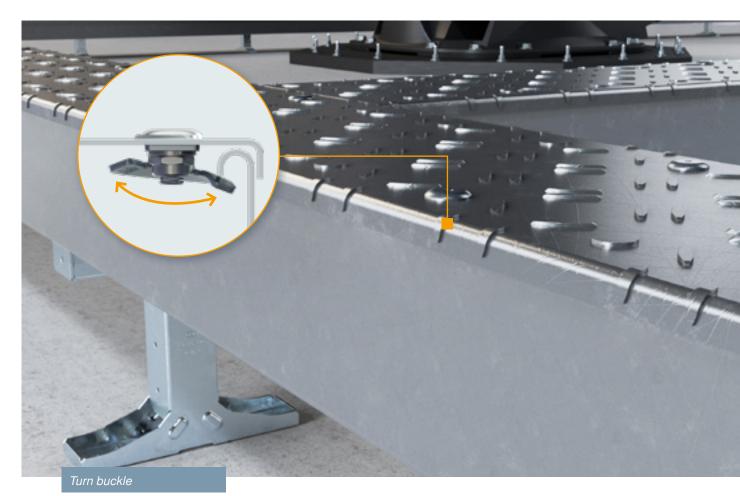


Turn buckle

Cover clamp

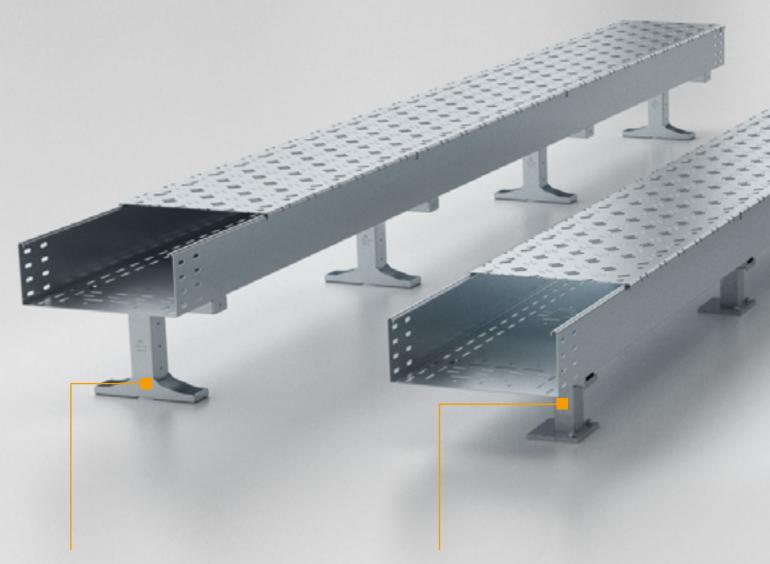
Chequer plate cover DBKR





Cable tray stand-off

OBO is listed and approved by all standard automotive manufacturers. To meet the wide-ranging needs, we offer an approved cable tray standoff solution for each standard automotive manufacturer.

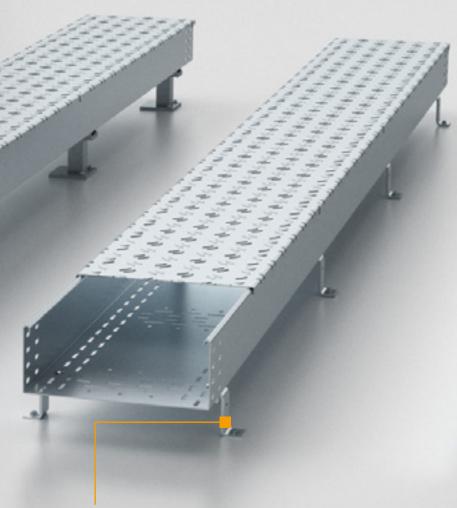


Symmetrical support for Mercedes-Benz according to integra 7i

- Meets health and safety guidelines to avoid the risk of slipping/tripping
- Step height approx. 290–300 mm (depending on the system height)
- Space for routing under the system
- 2-part support enables faster, improved mounting
- Threaded glands enable simple mounting of the cable tray to the crossbeam and faster mounting of the pipe clips (from REHAU) on the base of the support

Support bracket for VW AG according to VASS V6

- Step height approx. 200–210 mm (depending on the system height)
- Cable tray fastening via self-tapping screw
- Space for routing under the system



Z support for **BMW**

- Max. system height 200 mm, fits under most protection fences
- Simple mounting of protective panels without additional drilling, thanks to prefabricated perforation in Z support and protective panel
- Space for routing under the system
- Prefabricated threaded hole for faster mounting of the cable tray on Z supports
- Together with the crossbeam, Z supports present a sturdy stand-off variant



Floor mounting on C rail

 Quick and easy mounting on the floor via C rail

EMC protection and dust protection

All kinds of conditions are encountered in modern industrial plants. Often the environment is harsh, with dirt, vibrations and other side effects of industrial processes posing a serious risk to sensitive power, data and control cables. BKRS provides a safe, enclosed installation space for cables.

EMC-tested

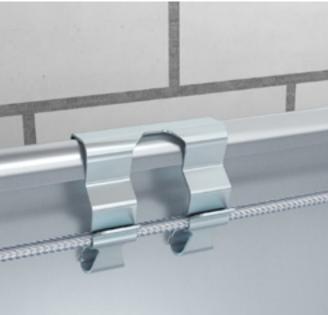
Through the use of a barrier strip, power, control and data cables are insulated according to DIN EN 50174, to ensure electromagnetic compatibility. The trays and covers themselves provide perfect all-round protection for the cables.



End-to-end equipotential bonding

in the cable tray profile





A continuous tin-plated copper cable is guided directly in the cable tray profile and fixed using the clamp spring. Installation is easy, done without tools or any additional drill holes – ideal for quick and clean integration into existing systems.

- Direct routing of the copper cable in the cable tray (e.g. type 6061985)
- Clamp spring for toolless fastening without drilling on the cable tray (6049273)
- Use of tin-plated copper cables in accordance with DIN VDE 0295 Class 2, multi-wire and tin-plated copper cables in accordance with DIN VDE 0295 Class 5, fine-wire and pair-stranded
- For cable cross sections of 16 mm² to 35 mm²
- Maximum terminal spacing: 1.5 m
- Quick contacting: Copper cable is inserted directly into the clamping spring

Equipotential bonding

under the cable tray



In this system, the conductor cable is guided under the cable tray using connection terminals. Tin-plated copper cables in accordance with DIN VDE 0295 Class 2, multi-wire and tin-plated conductor cables according to DIN VDE 0295 Class 5, fine-wire and pair-stranded, from 16 mm² to 35 mm² can be used.

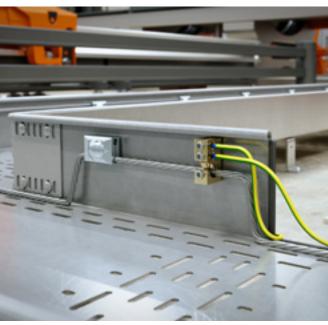
- Fastening done using the connection terminal (6049275)
- Two exits of round cables up to 35 mm² possible



Equipotential bonding

with central exit





Equipotential bonding is achieved using a 35 mm² copper cable, routed continuously using parallel connectors. The connection terminal 6049275 can be mounted anywhere and connected to the conductor cable. It has 2 exits for round cables up to 35 mm².

- Robust cable routing of 35 mm² tin-plated copper cables in accordance with DIN VDE 0295 Class 2, multi-wire with parallel connectors (5315700)
- Mounting of the terminal clamp anywhere on the condutor cable (6049275)
- Two exits of round cables up to 35 mm² possible

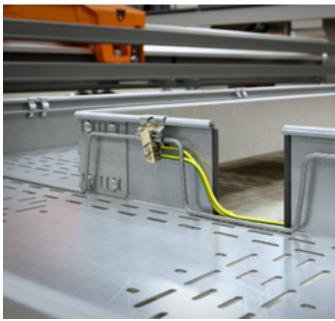
Equipotential bonding

with flexible branch structure



This system enables structured earthing with flexible branches. Copper cables are supported using special connection terminals and guided via round cables. The ideal solution for branched earthing grids with different cable cross-sections.

- Connection terminals for supporting one copper cable 16 mm² to 35 mm² (6049276 / 6049278)
- Two exits for round cables (25 mm² / 35 mm²) possible
- Connection terminals for supporting two copper cables 16 mm² to 35 mm² for creating branches (e.g. type 6049277 / 6049279)



Assembly options to meet every requirement

Comprehensive accessories for the BKRS cable tray offer a range of mounting benefits

The chequer plate cover not only offers ideal slip prevention, but can now also be mounted with the BKR cover clamp. As an alternative to the turn buckle, the cover clamp can be attached to the cover before mounting. The cover is then simply snapped onto the cable tray. Instead of pre-mounted turn buckle, there are break-out markings at 100 mm spacings on the chequer plate cover to allow mounting of turn buckles as appropriate.

With the matching cover lifter, the cover can be dismantled again just as easily. At the same time, the cover lifter can be used as a drilling template for connector perforations, for example to mount the RUVK universal connector. One connector for every direction — the RUVK universal connector can be used as both a straight and an angled connector. The optimised rounded inner edge of the connector reliably protects cables against damage during pulling. A cover support provides additional support for the cover. It also features rounded edges, which protect the cables during installation.

The portfolio also includes protective panels and support brackets. The protective panel acts as a collision guard, and with the support bracket the walkable cable tray system can be mounted.

At a glance

- Cover clamp as the rapid alternative to mounting with turn buckles
- Cover lifter as a dismantling tool with clever drilling template for connection perforation
- Universal connector with integrated edge protection when creating horizontal exits
- Cover support for additional cover support
- Protective panel as a collision guard
- Support bracket as a stand-off of the walkable cable tray system



Protective panel



Cover support

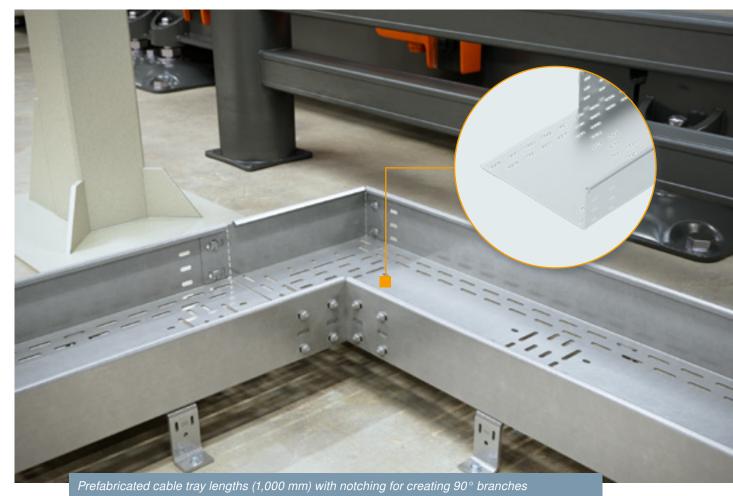


Universal connector



Cover lifter for chequer plate cover





Always there for you, across the globe

Our international presence

At OBO, regional connections meet a global presence. With 7 production companies, 40 subsidiaries and almost 20 other agents, we are represented in over 60 countries across all continents. This makes us one of the most important players in the global electrical engineering market. The values of our company are supported by continuous proximity to our customers. For us, customer proximity means that whenever borders open and new markets are created, we will be there.

Our solutions – tailored just for you

Each automotive manufacturer places different requirements on the systems they use in their production environment. This includes individual needs, mounting environments and installation requirements. We at OBO know this thanks to our experience from countless projects worldwide. It is why we offer a custom product brochure and custom mounting instructions for each automotive manufacturer. That is unique on the market, but goes without saying for us. Because tailoring our approach to each of our customers is standard for us.





Cable tray MKS 60



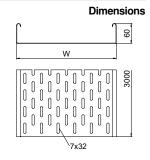




MKS 60 = medium-duty cable tray system with a side height of 60 mm.

Tested for installation above suspended fire protection ceilings (tray widths 100-400 mm, fire load 30 minutes, mounting work and parameters according to fire protection reports).

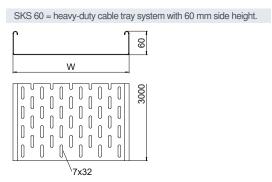
			Usable
			Cross-
	Length	Dimension W	section
Туре	mm	mm	cm ²
MKS 610 FS	3000	100	58
MKS 620 FS	3000	200	118
MKS 630 FS	2000	200	178





Cable tray SKS 60

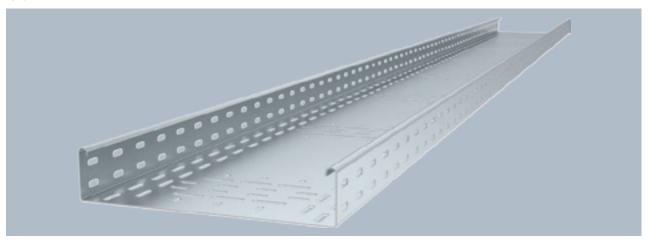




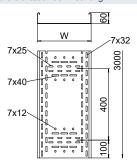
	Width	Metal thick- ness		Min. order- ing quan- tity			
Туре	mm	mm	BS	m			Item no.
SKS 610 FS	100	1.50	*	3			6056105
SKS 620 FS	200	1.50	8	3			6056202
SKS 630 FS	300	1.50	*				6056296

St FS

Cable tray for conveyor technology



Perforated cable tray for the routing of cables, especially suited for material handling technology in the automotive industry. Can be used in indoor areas. Screw connection. Suitable for direct and elevated floor mounting.



Туре	Side height mm		Dim. B mm	Dim. L mm	Metal thick- ness mm		Item no.
BKRS F 610 FS	60	60	100	3000	1.50	3	6061841
BKRS F 620 FS	60	60	200	3000	1.50	3	6061843
BKRS F 630 FS	60	60	300	3000	1.50	3	6061845

Straight connector 60





	Side height	Min. order- ing quan- tity	
Туре	mm	Piece	Item no
RLVK 60 FS	60	10	606709

St FS

St

St FS

St FS

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

Adjustable connector 60







Adjustable connector for cable trays with a side height of 60 mm. Including appropriate fastening material.

Straight and angle connector 60





	Side height	Min. order- ing quan- tity	
Туре	mm	Piece	Item no.
RWVL 60 FS	60	10	6067115

Straight and angle connector for cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

Barrier strip 60





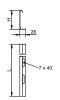
Туре	Dim. H mm	Metal thick- ness mm	Length mm	Min. order- ing quan- tity m	Item (
туре	1111111	1111111	111111	111	цепп
TSG 60Z BKRS FS	55	1.50	3000	3	6062

Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M 6×12 in the base perforation.

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used. For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

Separating retainer 60







Separating retainer for separation of cables of different voltages or functions.



Truss-head bolt with combination nut

L d D ance tity mm mm mm grade Piece



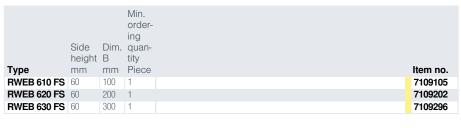


Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

St	FS

Reducer/stop-end 60



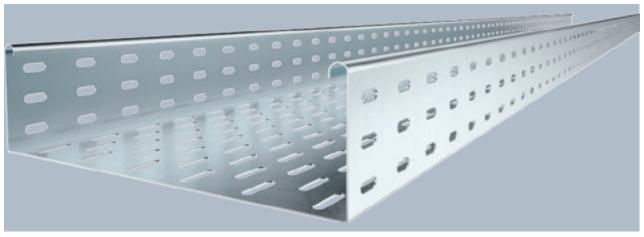




Reducer/stop-end plate for cable trays with side height 60 mm. From a width of 150 mm, a perforated lower flange is available. Including appropriate fastening material.

Cable tray MKS 85



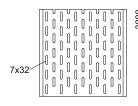


		Metal			Usable		
		thick-			cross-		
	Width	ness	Length	Dimension W	section	Pack	
Туре	mm	mm	mm	mm	cm ²	m	Item no.
MKS 810 FS	100	1.00	3000	100	83	3	6057101
MKS 820 FS	200	1.00	3000	200	186	3	6057209
MKS 830 FS	300	1.00	3000	300	253	3	6057306

MKS 85 = medium-duty cable tray system with a side height of 85 mm.

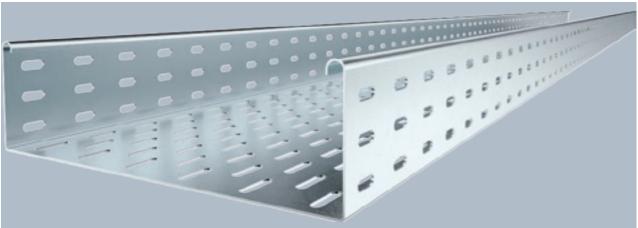
Magnetic shield insulation without cover 20 dB, with cover 50 dB.



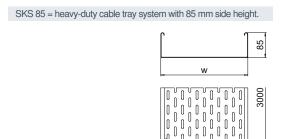


Cable tray SKS 85



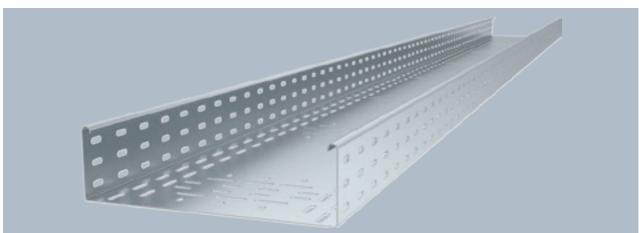


	Width	Metal thick- ness	Length	Dimension W	Usable cross-section	Pack	
Туре	mm	mm	mm	mm	cm ²	m	Item no.
SKS 810 FS	100	1.50	3000	100	83	3	6058108
SKS 820 FS	200	1.50	3000	200	186	3	6058205
SKS 830 FS	300	1.50	3000	300	253	3	6058302

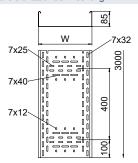




Cable tray for conveyor technology



Perforated cable tray for the routing of cables, especially suited for material handling technology in the automotive industry. Can be used in indoor areas. Screw connection. Suitable for direct and elevated floor mounting.



	Side height				Metal thick- ness	-	
Туре	mm	mm	mm	mm	mm	m	Item no.
BKRS F 810 FS	85	85	100	3000	1.50	3	6061851
BKRS F 820 FS	85	85	200	3000	1.50	3	6061853
BKRS F 830 FS	85	85	300	3000	1.50	3	6061855

Straight and angle connector 85





		Min. order-	
		ing	
	Side	quan-	
	height		
Туре	mm	Piece	Item no.
RLVL 85 FS	85	10	6067123

Straight and angle connector for cable trays and fittings with a side height of 85 mm. Including appropriate fastening material.

Adjustable connector 85





Туре	Side height mm	Min. order- ing quan- tity Piece	Item no.	
RGV 85 FS	85	10	7082029	

Adjustable connector for cable trays with a side height of 85 mm. Including appropriate fastening material.

Barrier strip 85





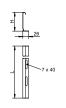
height nes
85 1.50 3000

Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M 6 x 12 in the base perforation

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used. For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

Separating retainer 85





		Metal thick- ness	Dim.	Min. order- ing quan- tity
Туре	mm	mm	mm	,
TSG 85 FS	85	0.75	3000	3

St FS

Separating retainer for separation of cables of different voltages or functions.

Truss-head bolt with combination nut





Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut. For universal fastening of construction components. Permitted use of the article only in dry atmospheres.



Reducer/stop-end 85

			Min.	
			order-	
			ing	
	Side	Dim.	quan-	
	height		tity	
	Height		,	
Type	mm	mm	Piece	lte
RWEB 810 FS	85	100	1	71
RWEB 820 FS	85	200	1	71
RWEB 830 FS	OF	300	4	71





Reducer/stop-end for cable trays with side height 85 mm.

From a width of 150 mm, a perforated bottom flange is available.

Including appropriate fastening material.

Unperforated cover





	Dim. B	Metal thick- ness	Length	Min. order- ing quan- tity	
Туре	mm	mm	mm	m	Item no.
DRLU 100 FS	100	1.00	3000	3	6052103
DRLU 200 FS	200	1.00	3000	3	6052210
DRLU 300 FS	300	1.00	3000	3	6052307

St FS

St FS

A2 2B

St FT

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

Cover with turn buckle





	Dim. B	Metal thick- ness	Length	Min. order- ing quan- tity	
Туре	mm	mm	mm	m	Item no.
DRL 100 FS	100	1.00	3000	3	6052096
DRL 200 FS	200	1.00	3000	3	6052207
DRL 300 FS	300	1.00	3000	3	6052304

Transverse bead from 500 mm width.

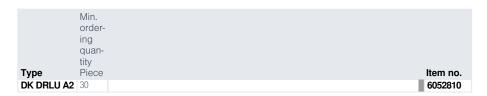
Cover for cable trays and cable ladders with turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

Cover clamp







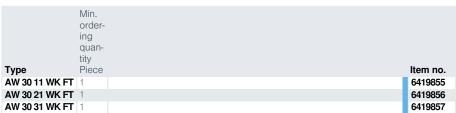
Cover clamp for secure fastening of covers on cable trays and cable ladders.

At least 6 cover clamps should be mounted for each 3 metres of cover.

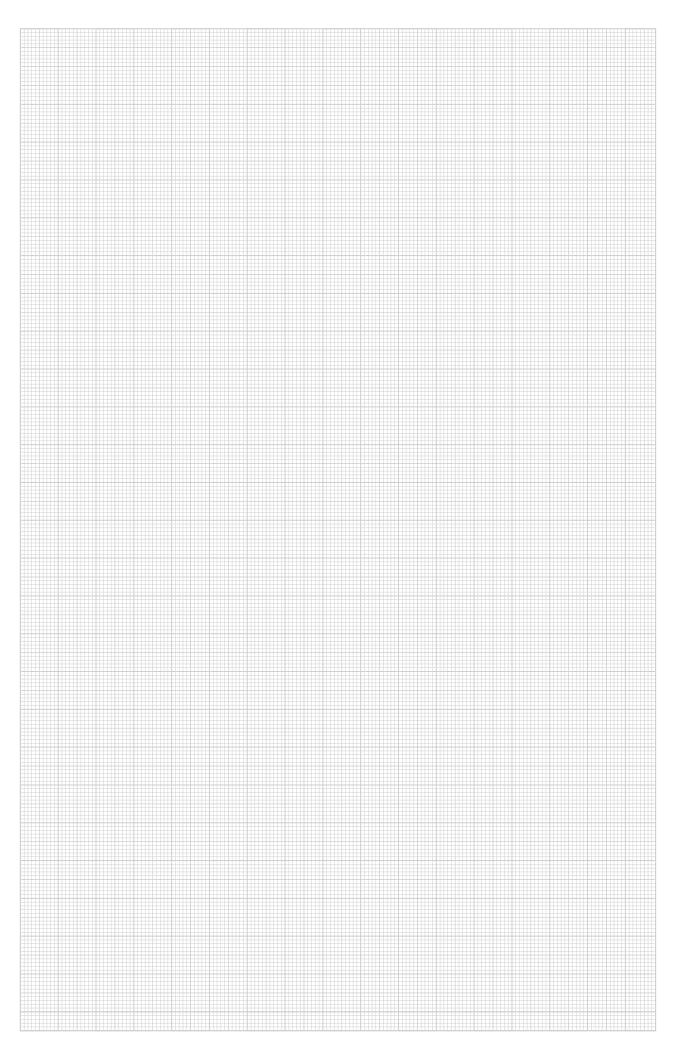
Wall and support bracket, angle head





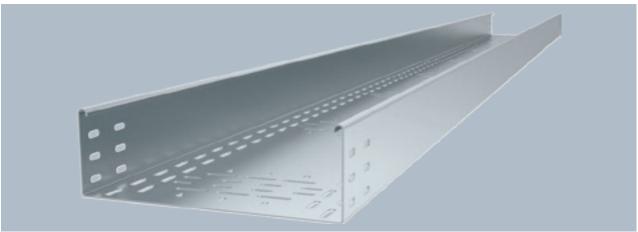


Heavy-duty wall and support bracket with welded angle head plate, for fastening to walls or structures.



Cable tray BKRS 100





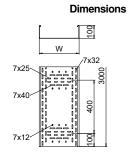
Туре	Side height mm		Dim. B mm	Dim. L mm	Metal thick- ness mm	_	Item no.
• •							
BKRS 1010 FS	100	100	100	3000	2.00	3	6062000
BKRS 1020 FS	100	100	200	3000	2.00	3	6062002
BKRS 1030 FS	100	100	300	3000	2.00	3	6062004
BKRS 1040 FS	100	100	400	3000	2.00	3	6062006
BKRS 1050 FS	100	100	500	3000	2.00	3	6062008
BKRS 1060 FS	100	100	600	3000	2.00	3	6062010

Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Туре	Dim. L mm	Dim. B mm	Н	Metal thick- ness mm	Usable cross-section cm ²
BKRS 1010 FS	3000	100	100	2.00	84
BKRS 1020 FS	3000	200	100	2.00	171
BKRS 1030 FS	3000	300	100	2.00	258
BKRS 1040 FS	3000	400	100	2.00	345
BKRS 1050 FS	3000	500	100	2.00	432
BKRS 1060 FS	3000	600	100	2.00	519

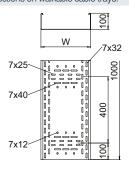




BKRS 100 cable tray, shortened



Cable tray fitting with shortened length, for creation the of straight sections on walkable cable trays.



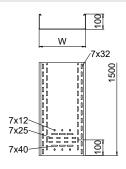
Туре	Side height mm		Dim. B	Dim. L mm	Metal thick- ness mm	Min. order- ing quan- tity Piece	Item no.
BKRS 1010 10 FS	100	100	100	1000	2.00	1	6061895
BKRS 1020 10 FS	100	100	200	1000	2.00	1	6061896
BKRS 1030 10 FS	100	100	300	1000	2.00	1	6061897
BKRS 1040 10 FS	100	100	400	1000	2.00	1	6061898
BKRS 1050 10 FS	100	100	500	1000	2.00	1	6061899
BKRS 1060 10 FS	100	100	600	1000	2.00	1	6061900

St FS

BKRS 100 cable tray, shortened



Cable tray fitting with shortened length, for creation the of straight sections on walkable cable trays.



Туре	Side height mm		Dim. B mm	Dim. L mm	Metal thick- ness mm	-	Item no.
BKRS 1010 15 FS	100	100	100	1500	2.00	1	6061970
BKRS 1020 15 FS	100	100	200	1500	2.00	1	6061972
BKRS 1030 15 FS	100	100	300	1500	2.00	1	6061974
BKRS 1040 15 FS	100	100	400	1500	2.00	1	6061976
BKRS 1050 15 FS	100	100	500	1500	2.00	1	6061978
BKRS 1060 15 FS	100	100	600	1500	2.00	1	6061980

45° fitting, left, BKRS 100







Туре	Dim. H mm	Dim. B mm	Dim. L mm	Metal thick- ness mm	-	Item no.
BKRS 1010 45L FS	100	100	1000	2.00	1	6061911
BKRS 1020 45L FS	100	200	1000	2.00	1	6061912
BKRS 1030 45L FS	100	300	1000	2.00	1	6061913
BKRS 1040 45L FS	100	400	1000	2.00	1	6061914
BKRS 1050 45L FS	100	500	1000	2.00	1	6061916
BKRS 1060 45L FS	100	600	1000	2.00	1	6061917

Cable tray fitting with 45° cut, for creation of bends on walkable cable trays.

45° fitting, right, BKRS 100







	Н	В	L	Metal thick- ness	quan- tity	
Туре	mm	mm	mm	mm	Piece	Item no.
BKRS 1010 45R FS	100	100	1000	2.00	1	6061903
BKRS 1020 45R FS	100	200	1000	2.00	1	6061904
BKRS 1030 45R FS	100	300	1000	2.00	1	6061905
BKRS 1040 45R FS	100	400	1000	2.00	1	6061906
BKRS 1050 45R FS	100	500	1000	2.00	1	6061908
BKRS 1060 45R FS	100	600	1000	2.00	1	6061909

Cable tray fitting with 45° cut, for creation of bends on walkable cable trays.

BKRS fitting, left notching, 100









	Dim. H	Dim. B	Dim. L	Metal thick- ness	_	
Туре	mm	mm	mm	mm	Piece	Item no.
BKRS 1010 90L FS	100	100	1000	2.00	1	6061918
BKRS 1020 90L FS	100	200	1000	2.00	1	6061920
BKRS 1030 90L FS	100	300	1000	2.00	1	6061922
BKRS 1040 90L FS	100	400	1000	2.00	1	6061924
BKRS 1050 90L FS	100	500	1000	2.00	1	6061926
BKRS 1060 90L FS	100	600	1000	2.00	1	6061928

Fitting with side notching for walkable cable tray systems to create 90° bends.

BKRS fitting, right notching, 100





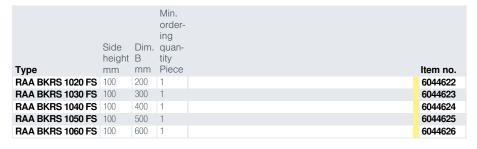


	Dim. H	Dim. B	Dim. L	Metal thick- ness	_			
Туре	mm	mm	mm	mm	Piece			Item no
BKRS 1010 90R FS	100	100	1000	2.00	1			6061930
BKRS 1020 90R FS	100	200	1000	2.00	1			6061932
BKRS 1030 90R FS	100	300	1000	2.00	1			6061934
BKRS 1040 90R FS	100	400	1000	2.00	1			6061936
BKRS 1050 90R FS	100	500	1000	2.00	1			6061938
BKRS 1060 90R FS	100	600	1000	2.00	1			6061940

Fitting with side notching for walkable cable tray systems to create 90° bends.



Add-on tee BKRS

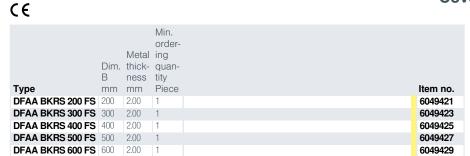




Add-on tee for a horizontal branch, fitting for BKRS walkable cable tray system. Suitable for mounting in indoor areas. With integrated connector. Fastening material must be ordered separately.

St FS

Cover for add-on tee, BKRS







Unperforated cover with chequer plate for add-on tee fitting for BKRS walkable cable tray system. Suitable for mounting in indoor areas. To protect the cables against damage and soiling. With pre-marked break-out openings for fastening with turn buckles. Turn buckles not contained in scope of supply.

Universal connector 100 FS







Туре	Side height mm	Min. order- ing quan- tity Piece	Item no.
RUVK 100 FS	100	10	6067870

Universal connector for horizontal straight and angle connections of walkable cable trays. In an angled state, with additional cable protection through flattened edges. Including fastening material.

Barrier strip, Z-shaped 100







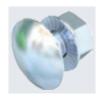
mm mm mm m	Metal Dim. thick- H ness	Length	Min. order- ing quan- tity		
		-		Item n	ю.

Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts $M6 \times 12$ in the base perforation.

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used. For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

Truss-head bolt with combination nut







						⁄lin.	
						rder-	
						ng	
	Dimen-	Dim.	Dim.	Dim.	Resist-	juan-	
	sion	L	d	D	ance	ty	
Туре	mm	mm	mm	mm	grade	Piece	Item no.
FRSB 6x12 G	M6x12	12	6	13.5	5.6	00	6406130

Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Reducer/stop-end 100

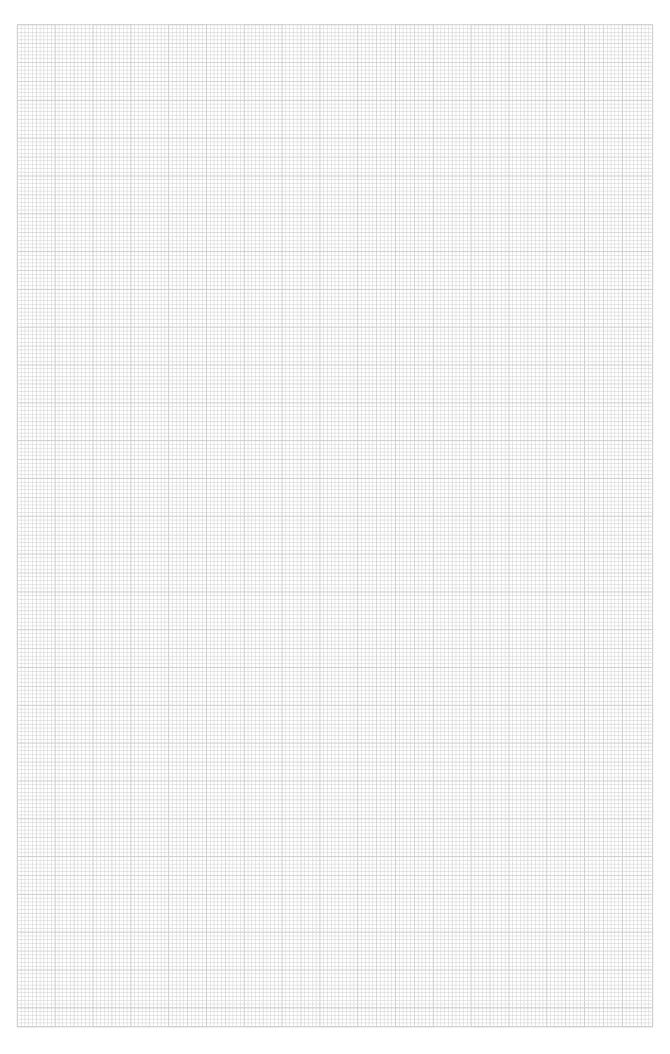






			Min.	
			order-	
			ing	
	Side	Dim.	quan-	
	height		tity	
_	_		,	
Type	mm	mm	Piece	Item no.
RWEB 1010 FS	100	100	1	7111802
RWEB 1020 FS	100	200	1	7111804
RWEB 1030 FS	100	300	1	7111806
RWEB 1040 FS	100	400	1	7111808
RWEB 1050 FS	100	500	1	7111810
RWEB 1060 FS	100	600	1	7111812

Reducer/stop-end for cable trays with side height 100 mm. Including appropriate fastening material.



Cable tray BKRS 110



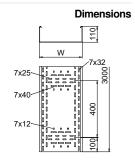


Туре	Side height mm	Dim. H mm	Dim. B mm	Dim. L mm	Metal thick- ness mm	-	Item no.
BKRS 1110 FS	110	110	100	3000	2.00	3	6061981
BKRS 1120 FS	110	110	200	3000	2.00	3	6061983
BKRS 1130 FS	110	110	300	3000	2.00	3	6061985
BKRS 1140 FS	110	110	400	3000	2.00	3	6061987
BKRS 1150 FS	110	110	500	3000	2.00	3	6061989
BKRS 1160 FS	110	110	600	3000	2.00	3	6061991

Heavy-duty, walkable cable tray system BKRS with base perforation, in 110 mm side height.

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

	Dim. L	В	Н	thick- ness	section
Туре	mm	mm	mm	mm	cm ²
BKRS 1110 FS	3000	100	110	2.00	96
BKRS 1120 FS	3000	200	110	2.00	196
BKRS 1130 FS	3000	300	110	2.00	296
BKRS 1140 FS	3000	400	110	2.00	396
BKRS 1150 FS	3000	500	110	2.00	496
BKRS 1160 FS	3000	600	110	2.00	596



Universal connector 110 FS







		Min.	
		order-	
		ing	
	Side	quan-	
	height	tity	
Туре	mm	Piece	Item no.
RUVK 110 FS	110	10	6067880

Universal connector for horizontal straight and angle connectors of walkable cable trays. In an angle state with additional cable protection through flattened edges. Including fastening material.

Adjustable connector 110





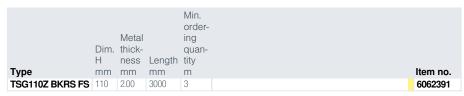


order- ing Side quan- height tity	lka
pe mm Piece	Item no.
GV 110 FS 110 10	7082037

Including appropriate fastening material.



Barrier strip, Z-shaped 110





Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used. For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

St G

Truss-head bolt with combination nut

	Dimen-				Resist- ance	Min. order- ing quan- tity			
Туре	mm	mm	mm	mm	grade	Piece			Item
FRSB 6x12 G	M6x12	12	6	13.5	5.6	100			6406



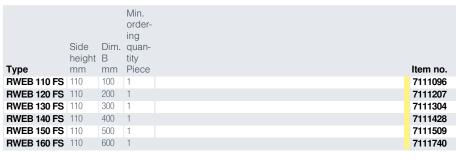


Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

St FS

Reducer/stop-end 110







Reducer/stop-end for cable trays with side height 110 mm. From a width of 150 mm, the perforated lower flange is provided. Including appropriate fastening material.

Chequer plate cover DBKR







					Min.	
					order-	
				Metal		
	Dim.		Dim.	thick-		
_	В	b	L	ness	tity	
Туре	mm	mm	mm	mm	m	Item no.
DBKR 100 FS	100	50	3000	3.30	3	6049119
DBKR 200 FS	200	50	3000	3.30	3	6049121
DBKR 300 FS	300	50	3000	3.30	3	6049123
DBKR 400 FS	400	50	3000	3.30	3	6049125
DBKR 500 FS	500	50	3000	3.30	3	6049127
DBKR 600 FS	600	50	3000	3.30	3	6049129
DBKR 100 DD	100	50	3000	3.30	3	6049140
DBKR 200 DD	200	50	3000	3.30	3	6049141
DBKR 300 DD	300	50	3000	3.30	3	6049142
DBKR 400 DD	400	50	3000	3.30	3	6049143
DBKR 500 DD	500	50	3000	3.30	3	6049144
DBKR 600 DD	600	50	3000	3.30	3	6049145
DBKR 100 FSK SGB	100	50	3000	3.30	3	6049095
DBKR 200 FSK SGB	200	50	3000	3.30	3	6049097
DBKR 300 FSK SGB	300	50	3000	3.30	3	6049099
DBKR 400 FSK SGB	400	50	3000	3.30	3	6049101
DBKR 500 FSK SGB	500	50	3000	3.30	3	6049103
DBKR 600 FSK SGB	600	50	3000	3.30	3	6049105

Chequer plate cover for the walkable cable tray system, type BKR.

The cover thickness is comprised of 2.0 mm strip-galvanised sheet steel and a 1.3 mm chequer height.

Pre-marked break-out openings at a spacing of 100 mm allow retroinstallation of a turn buckle.

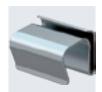
The covers are tested according to DIN 51130 and possess anti-slip class R11 and displacement space class V10. Cover fastenings are not part of the scope of delivery and can be ordered separately.



Cover clamp







Cover clamp for rapid fastening of the chequer plate cover, type DBKR, on cable trays. We recommend using at least 6 cover clamps for 3 metres of chequer plate cover.

St FT

Turn buckle for screwing







Single-sided turn buckle. Use for cover widths of 100-600 mm.

St FS

Cover support for walkable cable trays







Cover support for the walkable BKRS cable tray system, as an additional support for covers. With rounded edges to protect the cables during routing.

St FS

Cover lifter for chequer plate cover







Position the cover lifters as pairs on the cover clamps and remove the chequer plate cover evenly. Repeat lengthways until the entire cover is removed.

Using the cover lifter, chequer plate covers installed with cover clamps can be dismantled quickly and simply. Alternatively, the cover lifter can be used as a template for the connector perforation with cable trays cut during construction. For this, turn the cover lifter through 180° and position on the cable tray. Then use the perforation template appropriate to the side height.

BKRS Z support





Туре	Length mm	Width	Height mm	Min. order- ing quan- tity Piece	Item no.
ZST 100 BKRS FT	65	40	88	25	6044601
ZST 110 BKRS FT	65	40	75	25	6044603

Z support as a stand-off of the walkable BKRS cable tray system on the floor. Fastening of protection plates with chequer plate screws.

Additional support for BKRS





		Min. order-	
		ing	
	Dim.	quan-	
	L	tity	
Туре	mm	Piece	Item no.
ZS BKRS 100	88	1	6049287
ZS BKRS 110	75	1	6049288

Additional support for the elevation of the walkable BKRS cable tray system on the floor. Required for elevations with Z supports ZST from a tray width of 500 mm. Fastening with flat head screw FKS 6x12 mm (item no. 6049246).

Traverse for Z support for BKRS



St FS

FT





	Height	Min. order- ing quan- tity	
Туре	mm	Piece	Item no.
TRV ZST 100 FS	22	1	6044423
TRV ZST 200 FS	22	1	6044426
TRV ZST 300 FS	22	1	6044429
TRV ZST 400 FS	22	1	6044431
TRV ZST 500 FS	22	1	6044434
TRV ZST 600 FS	22	1	6044437

Crossbar for Z-support to support walkable cable trays and prevent deflection with heavy cable loads. Connection with Z-support by snapping into place. Mounting of cable tray on traverse with FKS M6 screw through hole in Z-support.

Flat-head screw with hexalobular internal







	Dimen-	Screw	Min. order- ing quan- tity	
Type	mm	system	Piece	Item n
FKS 6x12 G	M6x12	Torx	100	604924



Protective panel

				Min. order- ing	
	Length	Height	Thickness	quan- tity	
Туре	mm	mm	mm	m	Item no.
SB 100 BKS FS	3000	78	1.5	3	6049241
SB 110 BKS FS	3000	65	1.5	3	6049243





Protective panel, to be attached at the side as a collision guard for the walkable cable tray system. The protective panel can be installed on the Z supports using lens metal screws, type SPHS.

St G

Lens head metal screw

	Dimen-	Min. order- ing quan-	
Туре	sion mm	tity Piece	Item no.
SPHS 4,8x9,5 G	4,8x9,5	100	6049248





Metal screw with lens head according to shape F and Torx drive, according to DIN EN ISO 7049, to fasten protective panels to the Z supports for the walkable cable tray system.

Symmetrical floor support, crossbeam







Туре	Dim. B mm	L	Min. order- ing quan- tity Piece		n no.
BSST 100 FS	95	50	1	604	4400
BSST 200 FS	195	100	1	604	4402
BSST 300 FS	295	200	1	604	4404
BSST 400 FS	395	300	1	604	4406
BSST 500 FS	495	400	1	604	4408
BSST 600 FS	595	500	1	604	4410

Crossbeam of the symmetrical floor support for the BKRS system, suitable for base type BSSU 190. Depending on the type, can be used for walkable cable trays of width 100–600 mm. With threaded unions for cut-free mounting of cable trays. Fastening to base with 4x FKS M6 flat-head screws. Fastening material must be ordered separately.

Symmetrical floor support, base







	Dim. B	Dim. L	Min. order- ing quan- tity	
Туре	mm	mm	Piece	Item no.
BSSU 190 1010 FS	56	106	1	6044390
BSSU 190 2030 FS	130	200	1	6044392
BSSU 190 4060 FS	190	300	1	6044394

Base of the symmetrical floor support for the BKRS system, suitable for crossbeam type BSST. Depending on the type, can be used for walkable cable trays of width 100–600 mm. With threaded unions for mounting connection components, e.g. pipe clamps, as well as slots for floor mounting up to M10. Fastening material must be ordered separately.

Flat-head screw with hexalobular internal







			Min.		
			order-		
			ing		
	Dimen-		quan-		
	sion	Screw	tity		
Type	mm	system	Piece	lter	n no.
FKS 6x12 G	M6x12	Torx	100	604	19246

Flat-head screw with hexalobular internal to connect base and crossbeam of the symmetrical floor support BSS, to be used on walkable cable tray system BKRS.

Drilling template, BKRS floor support









Steel drilling template for the alignment and drilling of fastening holes for symmetrical floor supports of the BKRS walkable cable tray system. Suitable for support bases of type BSSU 190 1010/2030/4060.



CE

BKRS support bracket

Туре	Dim. B mm	Dim. b1 mm	Dim. b2 mm	for width	Min. order- ing quan- tity Piece	Item no.
STA BKRS 100 FT	92	11	61	100	1	6044541
STA BKRS 200 FT	192	11	161	200	1	6044543
STA BKRS 300 FT	292	23	229	300	1	6044545
STA BKRS 400 FT	392	23	329	400	1	6044547
STA BKRS 500 FT	492	123	329	500	1	6044551
STA BKRS 600 FT	592	223	329	600	1	6044553

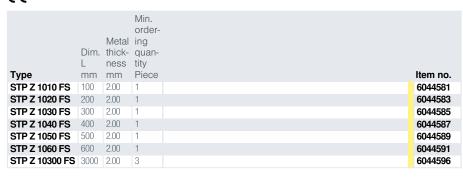


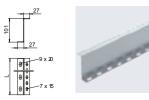
Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

Support profile 100

St CE

FS

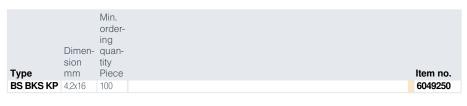




Support profile for holding up the walkable cable tray system BKRS from the floor. Installation must be performed on both sides of the Z profile during the process of securing the system so that it is held up.

St G

Drilling screw







Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.

MS4121 mounting rail, slot 22 mm, perforated





	Length	Material thickness	,	
Туре	mm	mm	Piece	Item no.
MS4121P0200FS	200	2	1	1122950
MS4121P0300FS	300	2	1	1122951
MS4121P0400FS	400	2	1	1122953
MS4121P0500FS	500	2	1	1122955
MS4121P0600FS	600	2	1	1122956

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MMS-plus MS mounting bolt tie, with flat pan head









	Dimen- sion			Head Ø	Screw	Min. order- ing quan- tity		
Туре	mm	mm	mm	mm	system	Piece	Ite	em no.
MMS+ MS 7.5x50	7,5 x 50	50	6	17	Torx	100	34	198261

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With large round head to fasten mounting and profile rails. Torx drive T30.

Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus P round head bolt tie, with pan head









	Dimen- sion	Anchor length		Head Ø	Screw	Min. order- ing quan- tity	
Туре	mm	mm	mm	mm	system	Piece	Item no
MMS+ P 7.5x80	7,5 x 80	80	6	14.5	Torx	50	3498272

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30.

Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



Dust protection element and joint plate





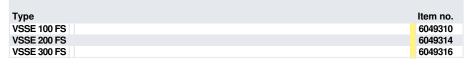


Dust protection element for use between chequer plate covers and aluminium chequer plates for walkable BKRS cable tray systems, as protection against dust and chips, etc.

The component can alternatively be used as a joint plate in the walkable cable tray, to bridge construction interfaces

St FS

Variable dust protection element 100







Variable dust protection element to extend the dust protection element of type SSE SSLB for walkable cable tray systems BKRS. Specially suited for cover joints that have been mitred. Toolless mounting.

PVC

Edge protection strip

	Iter	Item n	Item no	_ Item no.	_Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	_ Item no.	Item no.	_ Item no.	Item no	Item no	Item no	Item n	Item n	Item n	Item n	Item n	Item n	Item n	_Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	Item n	_ltem r	Item :	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	lt	I
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Edge protection strip with steel core for covering cut metal edges. Black version, UV-resistant.

St G

Truss-head bolt with combination nut

						Min. order-			
	Dimon	Dim	Dim	Dim	Resist-	ing			
	sion	Jiiii.	d	Diiii.	ance	titv			
Туре	mm	mm	mm			Piece			Item no.
FRSB 6x12 G	M6x12	12	6	13.5	5.6	100			6406130
FRSB 6x20 G	M6x20	20	6	13.5	5.6	100			6406181





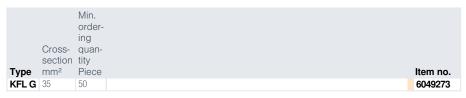
Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Clamp spring for stranded cables







Functional equipotential bonding of the cable support system can be created with the clamp spring.

The clamp spring is clamped onto the edge of the cable tray and then the conductor cable is clamped into the intended support of the clamp spring.

The clamp spring can accept conductor cables of between 10 and 35 mm² and should be mounted every 1.500 mm.

Parallel connector Rd 8 mm, M10 x 30



Item no. 5315700

St G





	Fit	Lightning current carrying capacity	Min. order- ing quan- tity
Type	mm	kA	Piece
2608	Rd 8	H/100	50

• With flat, round bolt M10 x 30 and hexagonal nut, hot-dip galvanised steel

Connection terminal, single







					Min.	
					order-	
					ing	
	Dim.	Dim.	Dim.	Cross-	quan-	
	Н	В	D	section	tity	
Type	mm	mm	mm	mm²	Piece	Item no.
AKL 25 E	40	7	6.5	25	10	6049276
AKL 35 E	45	8	8	35	10	6049278

Simple connection terminal to accept 1 conductor cable, to create the protective equipotential bonding for cable support systems. Mounting on conductor cable, central in clamp spring.

Connection terminal, double







Туре	H mm	В	D	Cross- section mm ²		Item no.
AKL 25 Z	60	7	6.5	25	10	6049277
AKL 35 Z	67	8	8	35	10	6049279

Double connection terminal to accept 2 conductor cables, to create the protective equipotential bonding for cable support systems. Can be used as a junction for branches and intersections. Mounting on conductor cable, central in clamp spring.



Earthing terminal with fastening thread

Туре	L	1	Cross- section mm ²	Thread	,	
EKL 35 M6 ISK	26	10	75	6	50	

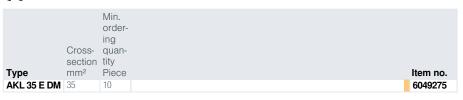




Earthing terminal for fastening the equipotential bonding conductor to the cable support system. M14 threaded pin, Allen drive with 6 mm across flats.
Suitable for conductor cross sections of 25–75 mm².



Connection terminal, single

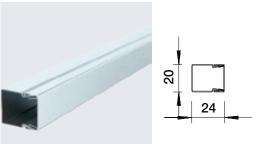


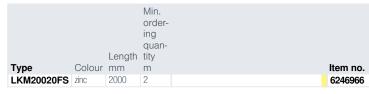




Simple connection terminal to accept 1 conductor cable, to create the protective equipotential bonding for cable support systems. Mounting on conductor cable, central in clamp spring.

Cable duct, type LKM 20020





Duct cover and base with base perforation.

Equipotential bonding is guaranteed between the cover and the base without any additional

Edge protection ring KSR 20020, for LKM cable duct type 20020



Item no.

6249742

St FS





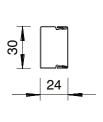


Edge protection ring for the open ends of LKM cable trunking

Cable duct, type LKM 20030









Duct cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. The LKM cable duct, type LKM 20030, has been tested for the maintenance of electrical function as a routing system according to DIN 4102 Part 12. Please note the cable types tested in the BSS fire protection systems division!

Edge protection ring KSR 20030, for LKM cable trunking type 20030









Edge protection ring for the open ends of LKM cable trunking.



Cable duct, type LKM 30030





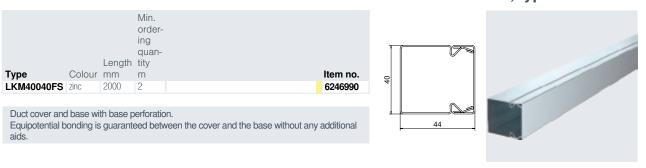


Edge protection ring KSR 30030, for LKM cable duct type 30030



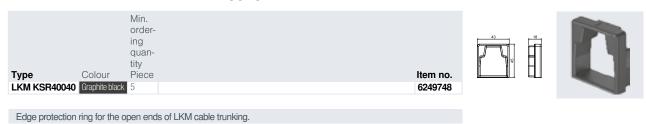
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Cable duct, type LKM 40040



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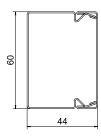
Edge protection ring KSR 40040, for LKM cable duct type 40040



Cable duct, type LKM 40060







Min. order- ing quan- Length tity Type Colour mm m m ltem no. LKM40060FS zinc 2000 2 6247016	order- ing quan- ength tity m m
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Duct cover and base with base perforation.

Equipotential bonding is guaranteed between the cover and the base without any additional aids

Edge protection ring KSR 40060, for LKM cable duct type 40060







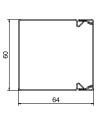


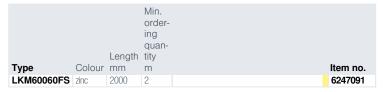
Edge protection ring for the open ends of LKM cable trunking.

Cable trunking, type LKM 60060









Trunking cover and base with base perforation.

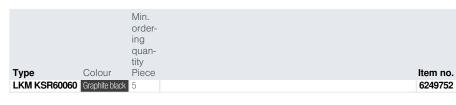
Equipotential bonding is guaranteed between the cover and the base without any additional aids. Note: LKM 60060 has no loop perforation in the base, a partition cannot be installed.

Edge protection ring KSR 60060, for LKM cable trunking type 60060





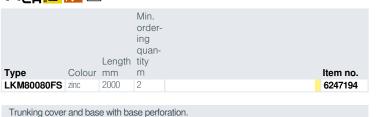


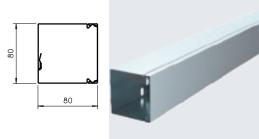


Edge protection ring for the open ends of LKM cable trunking.



Cable trunking, type LKM 80080





Equipotential bonding is guaranteed between the cover and the base without any additional

C E CK

Edge protection ring KSR 80080, for LKM cable trunking type 80080







Edge protection ring for the open ends of LKM cable trunking.

St FS

Cable duct, type LKM 60100



100 64



Duct cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. The LKM cable duct, type LKM 60100, has been tested for the maintenance of electrical function as a routing system according to DIN 4102 Part 12. Please note the cable types tested in the BSS fire protection systems division!

C E PR

Edge protection ring KSR 60100, for LKM cable duct type 60100







Edge protection ring for the open ends of LKM cable trunking.

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