



Product Catalogue

50
Years

Klemsan

more than
100
Countries

www.klemsan.com

Slotted Wiring Ducts

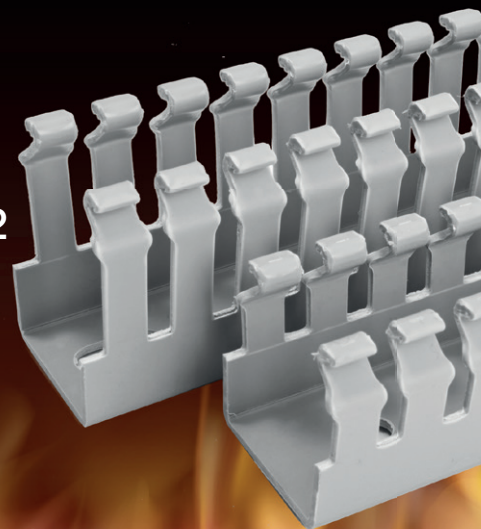
HALOGEN FREE Wiring Ducts

- Low Smoke

- Halogen Free
Zero Halogen

- Complying EN45545-2
for Railway Industry
(R22-R23, HL3)

- Material: PC-ABS



- Flame-retardant, self-extinguishing according to UL94-V0

- EN50085-2-3-approved

- Colour: Light Grey: RAL 7035

- Temperature range from -25 °C to +90 °C

Preferred and applied in public areas, such as;



Hospitals



Multistory and
High Buildings



Mining Facilities



Railway Industries



Marine Industries



Hotels



Laboratories



Schools



Airplanes



Cinema and Theater
Halls



Subway and Highway
Tunnels



Shopping Centers



Airport Terminals

Slotted Wiring Ducts

Halogen Free For **Highest Safety**



Why Low Smoke **Halogen Free (LSHF)** products?

When PVC or other traditional plastics ignite in a fire, they emit corrosive & toxic gases like Chlorine. Moreover, these are soluble in moisture, forming Hydrochloric acid, which destroy electronics, semiconductors and intrinsic electrical circuits.

It can be fatally hazardous to humans if they cannot escape from the smoky area contaminated with toxic elements. Toxic fumes are not only a serious health risk but also cause serious damage and problems to crucial machineries.

The Difference Between **PVC** and **PC/ABS**

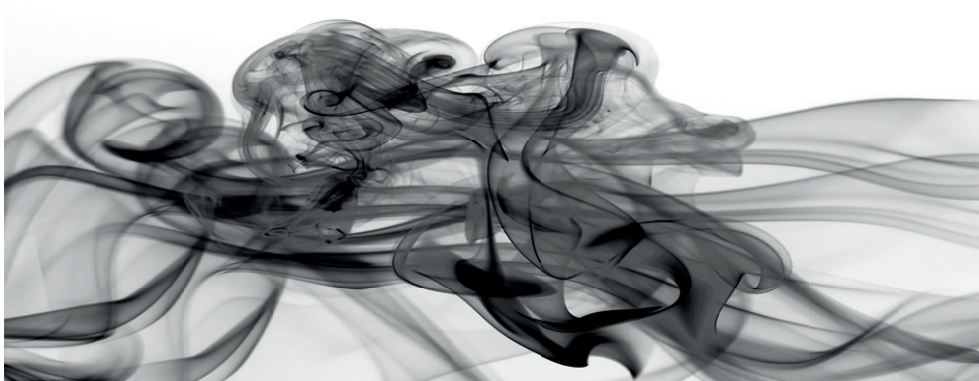
Due to its high level of flame-retardancy, PVC has been used as an appropriate cable insulation material for many years. However, in the event of a fire this will generate dense black smoke, with toxic and corrosive gases that can cause fatality and destruction.



PC/ABS passes the Halogen free tests and Low Smoke tests **successfully**.

Halogen Free wires and cables are already compulsory in many areas as they are safer. In the same way, Halogen Free Wiring Duct is especially important to be used in closed areas where the exits are limited; such as Public Transport, Hospitals, Malls etc.

PVC generates **dense black smoke** when it burns



EN 45545-2 European Union Standards Fire Testing to Railway Components



KLEMSAN offers a wide range of Wiring Ducts in materials that are compliant with the smoke generation and toxicity requirements of the **EN 45545-2** European Railway Standards for fire safety classes **R22 - R23** and Hazard Levels **HL1 - HL2 - HL3**.

Vehicles are classified as: HL1, HL2 or HL3, depending on their time in tunnels and the availability of sleeping cars. The HL1 classification represents the lowest hazard level and HL3 represents the highest. Please refer to EN 45545-2 for definitions.



LSHF Material Properties - **PC/ABS** Raw Material



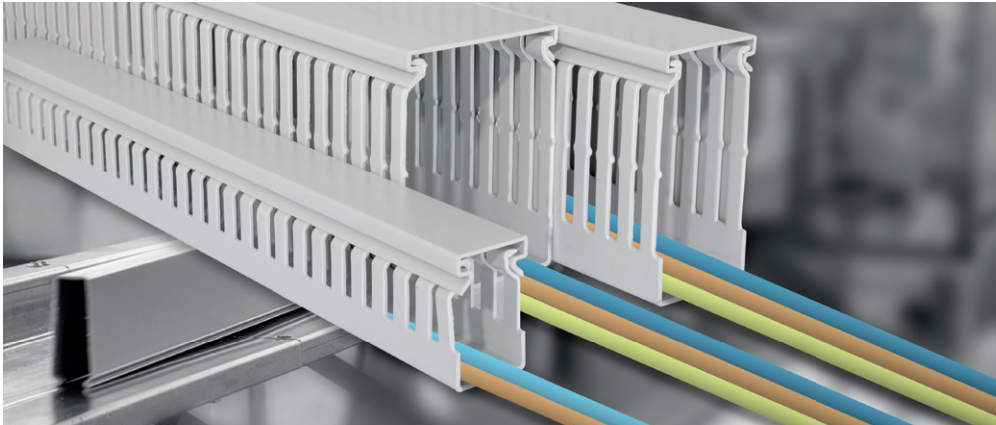
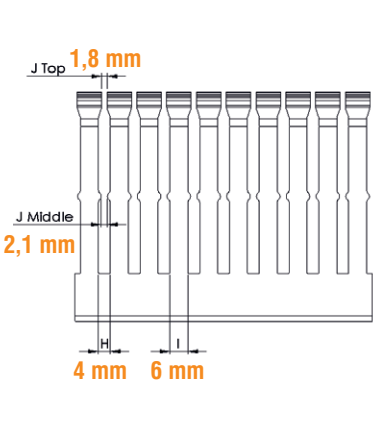
Our Halogen Free Wiring Ducts are made of a special purpose LSHF and flame retardant PC/ABS blend containing **NO Bromide, NO Chlorine and NO Fluorine**. It still offers high impact resistance and excellent characteristics used for higher temperature applications. These are in compliance with **EN 45545-2** European Union Standards.

LSHF material also has characteristics of self-extinguishing, UL94 flammability rating of V-0. It is RoHS compliant, environmentally safe and is 20% lighter than PVC.

Our LSHF material is resistant to abnormal heat and fire. It has proven dimensional stability between **-25 °C / + 90 °C**. Also, the Halogen Free Wiring Ducts are manufactured in compliance with the Standard EN 50085-2-3. Ideal for applications where public safety during a fire is a concern.

Slotted Wiring Ducts

LSHF (Low Smoke Halogen Free) - Wiring Ducts



Order No	Product	Size WxH (mm)	Color	Qty.
540 010	KHF 2530 Wiring Duct	25X30	Grey	46x2 m
540 020	KHF 2540 Wiring Duct	25X40	Grey	50x2 m
540 030	KHF 2560 Wiring Duct	25X60	Grey	30x2 m
540 060	KHF 4040 Wiring Duct	40X40	Grey	24x2 m
540 070	KHF 4060 Wiring Duct	40X60	Grey	18x2 m
540 080	KHF 4080 Wiring Duct	40X80	Grey	20x2 m
540 100	KHF 6040 Wiring Duct	60X40	Grey	18x2 m
540 110	KHF 6060 Wiring Duct	60X60	Grey	12x2 m
540 120	KHF 6080 Wiring Duct	60X80	Grey	12x2 m
540 150	KHF 8060 Wiring Duct	80X60	Grey	14x2 m
540 160	KHF 8080 Wiring Duct	80X80	Grey	10x2 m



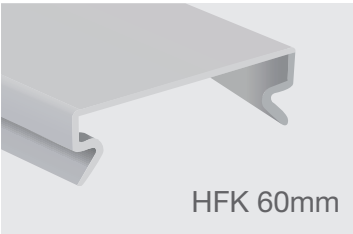
- Excellent fire-safety characteristics.
 - Smooth, burr-free edges protect installers from injury and wires from damage.
 - Ribs can be removed easily thanks to upper scorlines.
 - Lower scorlines at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges.
 - Duct covers hold securely even in a vertical position and under vibration.
- *Wiring duct covers are included the package.*

LSHF - Wiring Duct Covers



HFK 25mm

Order No	Product	Size (mm)	Color
540 600	HFK 25mm Wiring Duct Cover	25	Grey
540 610	HFK 40mm Wiring Duct Cover	40	Grey
540 620	HFK 60mm Wiring Duct Cover	60	Grey
540 630	HFK 80mm Wiring Duct Cover	80	Grey

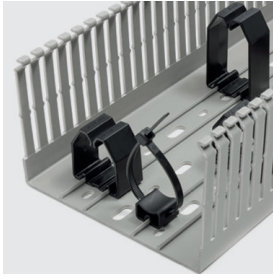


HFK 60mm



Slotted Wiring Ducts

Klemsan “Trunkie” PVC Wiring Ducts



Solutions Which Simplify Wiring

- Now wire management is much easier.
- You can easily mount wire retainers on the bottom rail of the duct without screw and slide them along the rail.



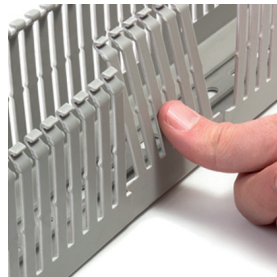
Durability and Reliability

- Assembly or disassembly of the covers is the most difficult operation when ducts are fully wired, design of Trunkie speeds up your work.
- Trunkie enables the customer to use the maximum inner space of the duct and keeps the rigidity even at maximum load of cables.



Appearance

- Special rib pattern allows the end-user to make cable grouping easier.



Speed and Efficiency

- Furthermore, Trunkie helps you save time while breaking off ribs in groups.
- Without using any hand tools,

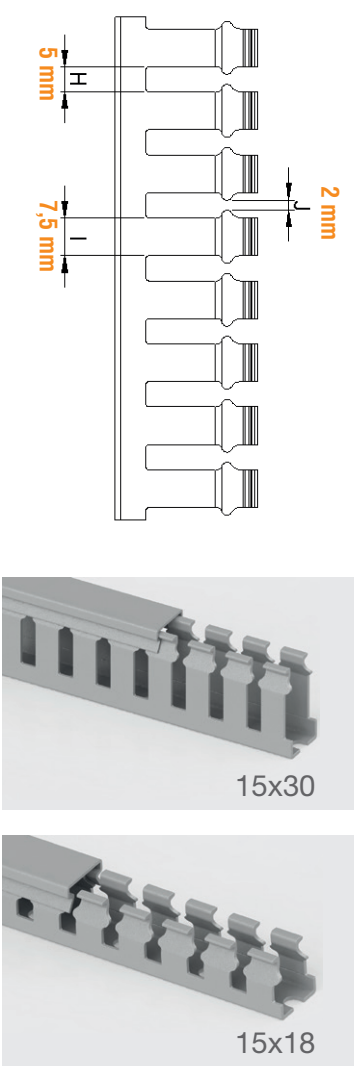
simply bend the duct ribs to 60° - 90°

and easily break them inside the panel.

Slotted Wiring Ducts

PVC Wiring Ducts Product Range

MEDIUM Slotted



Self-adhesive	Order No	Product	Size WxH (mm)	Color	Qty.
	551 060YP	KKC 1518	15x18	Grey	122x2 m
	551 070YP	KKC 1530	15x30	Grey	104x2 m
	551 080YP	KKC 1540	15x40	Grey	80x2 m
	551 090YP	KKC 1560	15x60	Grey	42x2 m
	551 060	KKC 1518	15x18	Grey	126x2 m
	551 070	KKC 1530	15x30	Grey	106x2 m
	551 080	KKC 1540	15x40	Grey	80x2 m
	551 090	KKC 1560	15x60	Grey	42x2 m

- No lower scorline available for this range.
 - Upper scorline is available for breaking off the ribs.
 - Operating Temperature: -15°C to 60°C
 - Standard Length: 2 meters
 - Color Option: RAL 7030 Grey
 - Complies with RoHS regulations.
 - Complies with IEC 60695-2-1 and EN 50085-2-3 standards.
- *Wiring duct covers are included the package.*



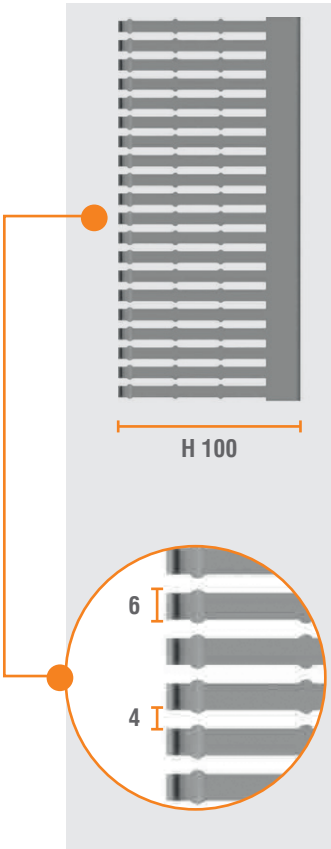
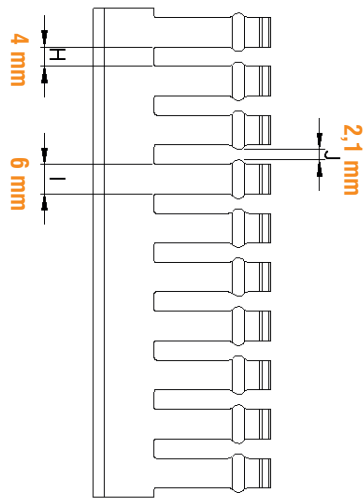
	Order No	Type	Description	Size (mm)										
				A	B	C	D	E	F	G	H	I	J	
Low Smoke Halogen Free	540 010	KHF 2530	HF Wiring Duct	25	26,6	30	8,00	1,55	1,55	9,55	4	6	Top 1,8 - Middle 2,1	
	540 020	KHF 2540	HF Wiring Duct	25	36,8	40	10,00	1,60	1,60	11,60	4	6		
	540 030	KHF 2560	HF Wiring Duct	25	56,8	60	12,00	1,60	1,60	13,60	4	6		
	540 060	KHF 4040	HF Wiring Duct	40	36,9	40	10,00	1,60	1,60	11,60	4	6		
	540 070	KHF 4060	HF Wiring Duct	40	56,9	60	12,00	1,60	1,60	13,60	4	6		
	540 080	KHF 4080	HF Wiring Duct	40	76,9	80	14,00	1,80	1,80	15,80	4	6		
	540 100	KHF 6040	HF Wiring Duct	60	37,0	40	10,00	1,60	1,60	11,60	4	6		
	540 110	KHF 6060	HF Wiring Duct	60	57,1	60	12,00	1,80	1,80	13,80	4	6		
	540 120	KHF 6080	HF Wiring Duct	60	77,1	80	14,00	1,90	1,90	15,90	4	6		
	540 150	KHF 8060	HF Wiring Duct	80	57,1	60	12,00	1,80	1,80	13,80	4	6		
540 160	KHF 8080	HF Wiring Duct	80	77,1	80	14,00	2,00	2,00	16,00	4	6			



Slotted Wiring Ducts

PVC Wiring Ducts Product Range

NARROW Slotted



Order No	Product	Size WxH (mm)	Color	Qty.
551 010	KKC 2530	25x30	Grey	50x2 m
551 011	KKC 2540	25x40	Grey	50x2 m
551 012	KKC 2560	25x60	Grey	30x2 m
551 030	KKC 2580	25x80	Grey	28x2 m
551 031	KKC 2510	25x100	Grey	22x2 m
551 013	KKC 4040	40x40	Grey	26x2 m
551 014	KKC 4060	40x60	Grey	18x2 m
551 015	KKC 4080	40x80	Grey	20x2 m
551 032	KKC 4010	40x100	Grey	14x2 m
551 016	KKC 6040	60x40	Grey	18x2 m
551 017	KKC 6060	60x60	Grey	12x2 m
551 018	KKC 6080	60x80	Grey	12x2 m
551 033	KKC 6010	60x100	Grey	18x2 m
551 034	KKC 8040	80x40	Grey	18x2 m
551 019	KKC 8060	80x60	Grey	14x2 m
551 020	KKC 8080	80x80	Grey	10x2 m
551 035	KKC 8010	80x100	Grey	12x2 m
551 021	KKC 1006	100x60	Grey	10x2 m
551 022	KKC 1008	100x80	Grey	8x2 m
551 036	KKC 1001	100x100	Grey	12x2 m
551 023	KKC 1206	120x60	Grey	8x2 m
551 024	KKC 1208	120x80	Grey	6x2 m
551 025	KKC 1201	120x100	Grey	10x2 m
551 040	KKC 1501	150x100	Grey	8x2 m

- Upper scorline is available for breaking off the ribs.
- Lower scorline is available.
- Operating Temperature: -15°C to 60°C
- Standard Length: 2 meters
- Color Option: RAL 7030 Grey
- Complies with RoHS regulations.
- Complies with IEC 60695-2-12 and EN 50085-2-3 standards.

• **Wiring duct covers are included the package.**

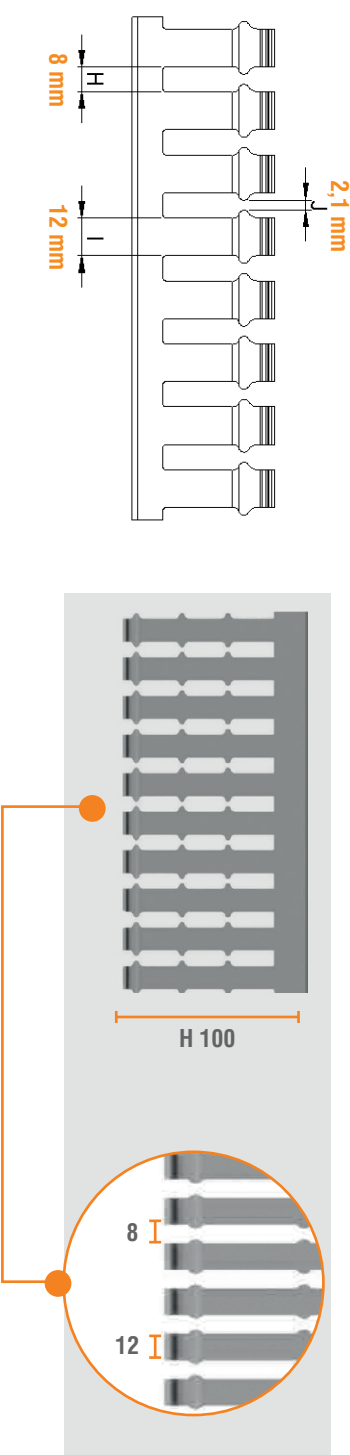


Color			
Color code is the last digit of the order number			
Blue	Black	White	Grey
.....BL	BK	W	BG

Slotted Wiring Ducts

PVC Wiring Ducts Product Range

WIDE Slotted



Order No	Product	Size WxH (mm)	Color	Qty.
551 013WS	KKC 4040	40x40	Grey	26x2 m
551 014WS	KKC 4060	40x60	Grey	18x2 m
551 015WS	KKC 4080	40x80	Grey	20x2 m
551 032WS	KKC 4010	40x100	Grey	14x2 m
551 016WS	KKC 6040	60x40	Grey	18x2 m
551 017WS	KKC 6060	60x60	Grey	12x2 m
551 018WS	KKC 6080	60x80	Grey	12x2 m
551 033WS	KKC 6010	60x100	Grey	18x2 m
551 034WS	KKC 8040	80x40	Grey	18x2 m
551 019WS	KKC 8060	80x60	Grey	14x2 m
551 020WS	KKC 8080	80x80	Grey	10x2 m
551 035WS	KKC 8010	80x100	Grey	12x2 m
551 021WS	KKC 1006	100x60	Grey	10x2 m
551 022WS	KKC 1008	100x80	Grey	8x2 m
551 036WS	KKC 1001	100x100	Grey	12x2 m
551 023WS	KKC 1206	120x60	Grey	8x2 m
551 024WS	KKC 1208	120x80	Grey	6x2 m
551 025WS	KKC 1201	120x100	Grey	10x2 m
551 040WS	KKC 1501	150x100	Grey	8x2 m

- Upper scorline is available for breaking off the ribs.
- Lower scorline is available.
- Operating Temperature: -15°C to 60°C
- Standard Length: 2 meters
- Color Option: RAL 7030 Grey
- Complies with RoHS regulations.
- Complies with IEC 60695-2-1 and EN 50085-2-3 standards.
- *Wiring duct covers are included the package.*



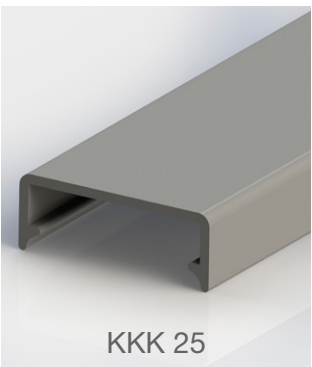
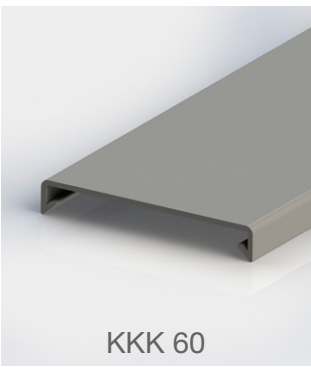
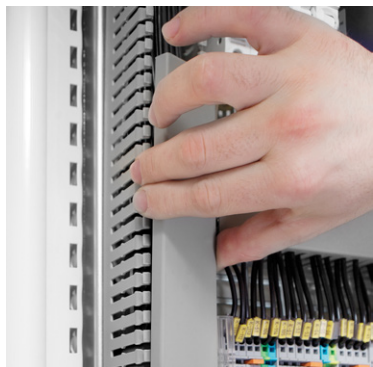
Slotted Wiring Ducts

PVC Wiring Ducts Product Range

Wiring Ducts Covers



Order No	Product	Size (mm)	Color	Description	Qty.
551 049	KKK 15	15	Grey	KKK 15 mm Wiring Duct Cover	10x2 m
551 050	KKK 25	25	Grey	KKK 25 mm Wiring Duct Cover	10x2 m
551 051	KKK 40	40	Grey	KKK 40 mm Wiring Duct Cover	10x2 m
551 052	KKK 60	60	Grey	KKK 60 mm Wiring Duct Cover	10x2 m
551 053	KKK 80	80	Grey	KKK 80 mm Wiring Duct Cover	10x2 m
551 054	KKK 100	100	Grey	KKK 100 mm Wiring Duct Cover	10x2 m
551 055	KKK 120	120	Grey	KKK 120 mm Wiring Duct Cover	10x2 m
551 056	KKK 150	150	Grey	KKK 150 mm Wiring Duct Cover	10x2 m

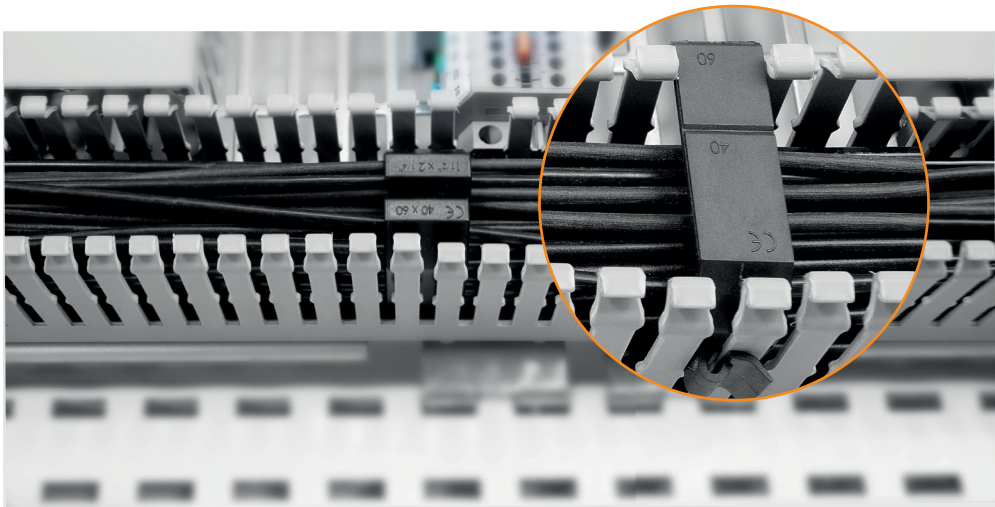


Color			
Color code is the last digit of the order number			
Blue	Black	White	Grey
.....BL	BK	W	BG

Slotted Wiring Ducts

PVC Wiring Ducts Product Range

Wiring Ducts Accessories



Order No	Product	Color	Description	Qty.
553 315	KKT 4040	Black	Wire Retainer	10
553 325	KKT 4060	Black	Wire Retainer	10
553 335	KKT 6080	Black	Wire Retainer	10
553 345	KKT 4080	Black	Wire Retainer	10
553 355	KKT 6040	Black	Wire Retainer	10
553 365	KKT 6060	Black	Wire Retainer	10
553 375	KKT 6010	Black	Wire Retainer	10
553 385	KKT 8060	Black	Wire Retainer	10
553 395	KKT 1006	Black	Wire Retainer	10
553 425	KKT 1206	Black	Wire Retainer	10
553 435	KKT 8080	Black	Wire Retainer	10
553 445	KKT 8010	Black	Wire Retainer	10
553 455	KKT 1008	Black	Wire Retainer	10
553 465	KKT 1001	Black	Wire Retainer	10
553 475	KKT 1208	Black	Wire Retainer	10
553 485	KKT 1201	Black	Wire Retainer	10
553 500	SETR	-	Setting Tool for Rivets	1
553 600	PPE 6.5	Grey	Rivets	100
553 405	KKB	Black	Cable Clamp	10
553 415	KKM	Black	Cable Holder	10



Slotted Wiring Ducts

PVC Wiring Ducts Product Range

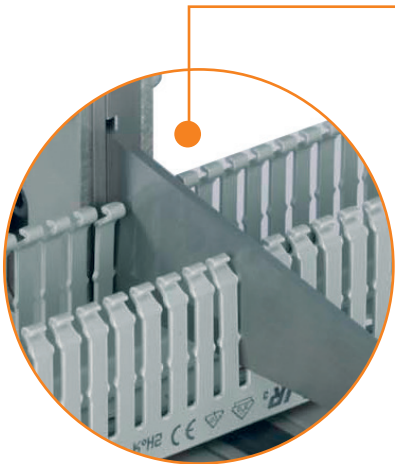
Wiring Duct Cutters



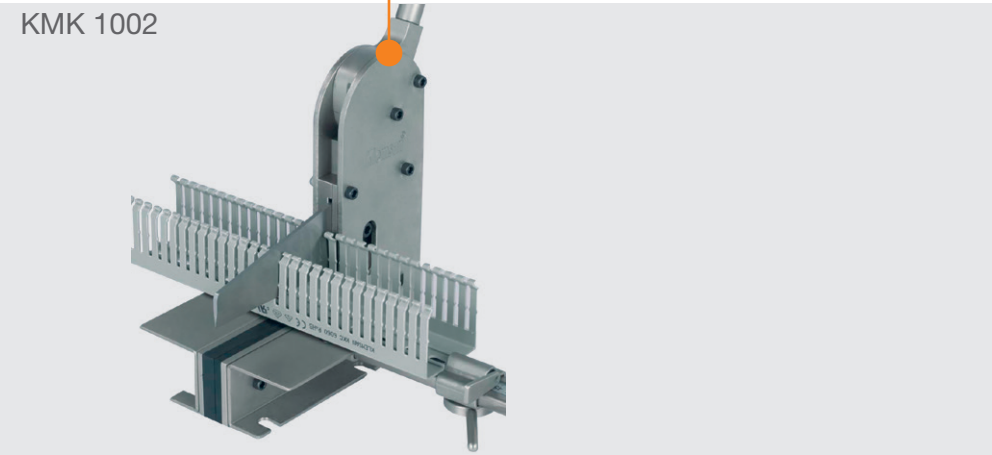
KKMR

Order No	Product	Description	Qty.
553 230	KKMR	Wiring Duct Cutter (Hand Tool)	1

- Burr-free cutting of wiring ducts and wiring duct covers
- Straight or 45° cutting options
- Equal force distribution across blades helps homogenous cutting
- Cutting up to 100 mm width



KMK 1002



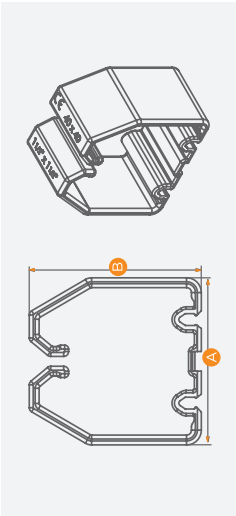
Order No	Product	Description	Qty.
553 220	KMK 1002	Wiring Duct Cutting Tool up to 120 mm	1

- Cover cutting
- Burr-free cutting
- Long-lived knife
- Length adjustment guide
- Cutting up to 120 mm width

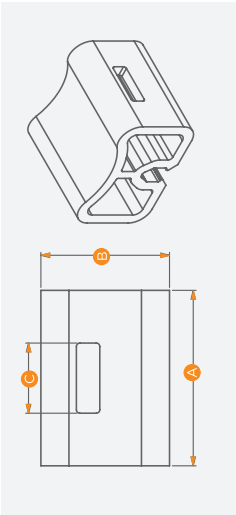
Slotted Wiring Ducts

Technical Specifications

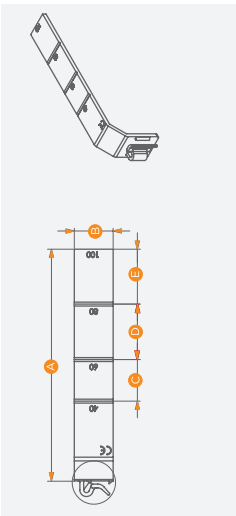
Wire Retainer



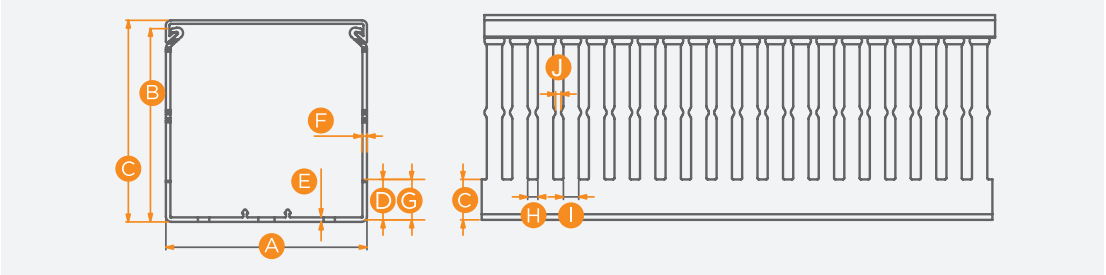
Cable Clamp



Cable Holder



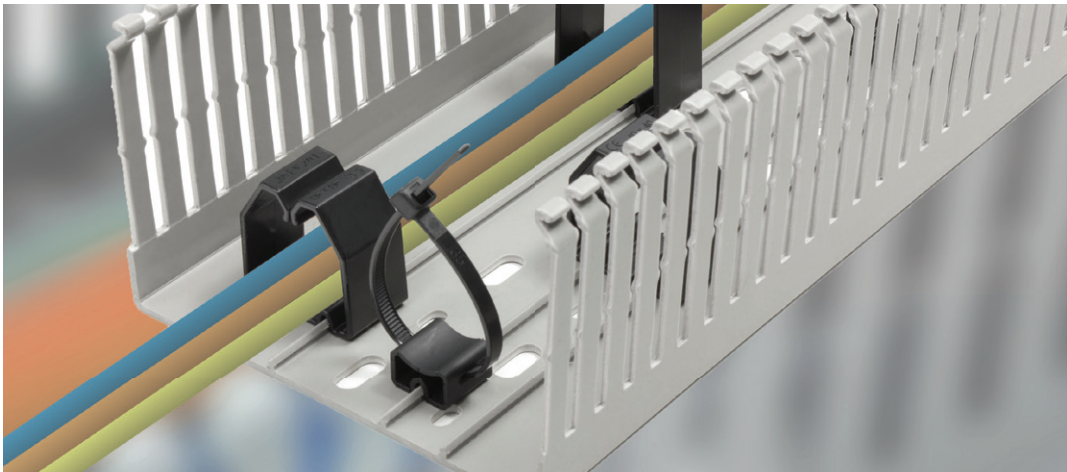
Wiring Duct



Order No	Type	Description	Size (mm)									
			A	B	C	D	E	F	G	H	I	J
551 060	KKC 1518 - Medium	Wiring Duct	15	16,3	18	3,50	1,00	1,00	4,50	5	7,5	2
551 070	KKC 1530 - Medium	Wiring Duct	15	28,3	30	5,00	1,10	1,10	6,10	5	7,5	2
551 080	KKC 1540 - Medium	Wiring Duct	15	38,3	40	9,00	1,20	1,20	10,20	5	7,5	2
551 090	KKC 1560 - Medium	Wiring Duct	15	58,3	60	11,00	1,40	1,40	12,40	5	7,5	2
551 010	KKC 2530 - Narrow	Wiring Duct	25	26,4	30	10,00	1,40	1,40	11,40	4	6	2,1
551 011	KKC 2540 - Narrow	Wiring Duct	25	36,2	40	11,00	1,40	1,40	12,40	4	6	2,1
551 012	KKC 2560 - Narrow	Wiring Duct	25	56,4	60	12,00	1,60	1,60	13,60	4	6	2,1
551 030	KKC 2580 - Narrow	Wiring Duct	25	76,8	80	14,00	1,80	1,80	15,80	4	6	2,1
551 031	KKC 2510 - Narrow	Wiring Duct	25	96,6	100	16,00	1,90	1,90	17,90	4	6	2,1
551 013	KKC 4040 - Narrow	Wiring Duct	40	36,5	40	11,00	1,40	1,40	12,40	4	6	2,1
551 014	KKC 4060 - Narrow	Wiring Duct	40	56,5	60	12,00	1,60	1,60	13,60	4	6	2,1
551 015	KKC 4080 - Narrow	Wiring Duct	40	76,8	80	14,00	1,80	1,80	15,80	4	6	2,1
551 032	KKC 4010 - Narrow	Wiring Duct	40	96,9	100	16,00	1,90	2,00	17,90	4	6	2,1
551 016	KKC 6040 - Narrow	Wiring Duct	60	36,8	40	11,00	1,60	1,60	12,60	4	6	2,1
551 017	KKC 6060 - Narrow	Wiring Duct	60	56,8	60	12,00	1,80	1,80	13,80	4	6	2,1
551 018	KKC 6080 - Narrow	Wiring Duct	60	76,7	80	14,00	1,80	1,80	15,80	4	6	2,1
551 033	KKC 6010 - Narrow	Wiring Duct	60	96,9	100	16,00	2,00	2,00	18,00	4	6	2,1
551 034	KKC 8040 - Narrow	Wiring Duct	80	36,8	40	11,00	1,60	1,60	12,60	4	6	2,1
551 019	KKC 8060 - Narrow	Wiring Duct	80	57,0	60	12,00	1,80	1,80	13,80	4	6	2,1
551 020	KKC 8080 - Narrow	Wiring Duct	80	77,1	80	14,00	1,80	1,80	15,80	4	6	2,1
551 035	KKC 8010 - Narrow	Wiring Duct	80	97,2	100	16,00	2,20	2,20	18,20	4	6	2,1
551 021	KKC 1006 - Narrow	Wiring Duct	100	57,3	60	12,00	2,00	2,00	14,00	4	6	2,1
551 022	KKC 1008 - Narrow	Wiring Duct	100	77,2	80	14,00	2,00	2,00	16,00	4	6	2,1
551 036	KKC 1001 - Narrow	Wiring Duct	100	97,2	100	16,00	2,20	2,30	18,20	4	6	2,1
551 023	KKC 1206 - Narrow	Wiring Duct	120	57,6	60	12,00	2,30	2,00	14,30	4	6	2,1
551 024	KKC 1208 - Narrow	Wiring Duct	120	77,5	80	14,00	2,30	2,00	16,30	4	6	2,1
551 025	KKC 1201 - Narrow	Wiring Duct	120	97,5	100	16,00	2,40	2,40	18,40	4	6	2,1
551 040	KKC 1501 - Narrow	Wiring Duct	150	98,1	100	16,00	2,70	2,70	18,70	4	6	2,1

Slotted Wiring Ducts

Technical Specifications



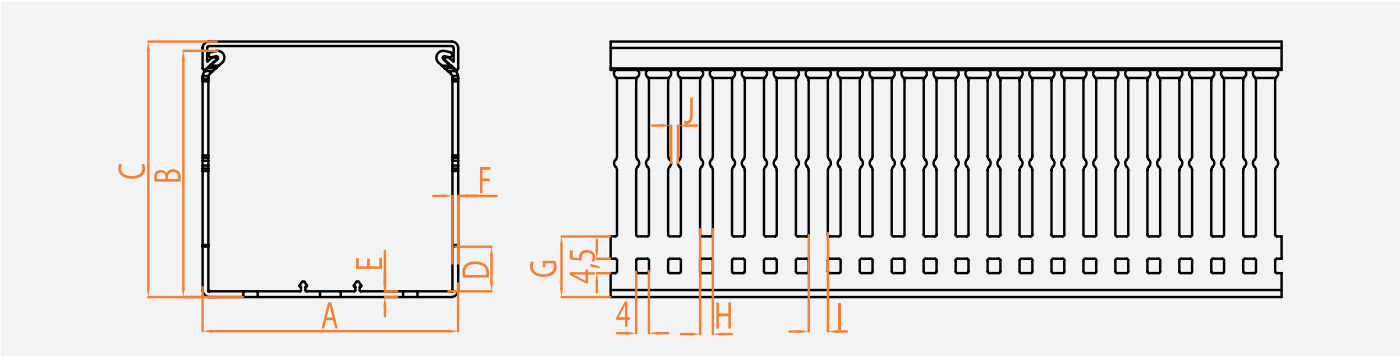
Order No	Type	Description	Size (mm)									
			A	B	C	D	E	F	G	H	I	J
551 013WS	KKC 4040 - Wide	Wiring Duct	40	38,3	40	9,00	1,20	1,20	10,20	8	12	2,1
551 014WS	KKC 4060 - Wide	Wiring Duct	40	56,5	60	12,00	1,60	1,60	13,60	8	12	2,1
551 015WS	KKC 4080 - Wide	Wiring Duct	40	76,8	80	14,00	1,80	1,80	15,80	8	12	2,1
551 032WS	KKC 4010 - Wide	Wiring Duct	40	96,9	100	16,00	1,90	2,00	17,90	8	12	2,1
551 016WS	KKC 6040 - Wide	Wiring Duct	60	36,8	40	11,00	1,60	1,60	12,60	8	12	2,1
551 017WS	KKC 6060 - Wide	Wiring Duct	60	56,8	60	12,00	1,80	1,80	13,80	8	12	2,1
551 018WS	KKC 6080 - Wide	Wiring Duct	60	76,7	80	14,00	1,80	1,80	15,80	8	12	2,1
551 033WS	KKC 6010 - Wide	Wiring Duct	60	96,9	100	16,00	2,00	2,00	18,00	8	12	2,1
551 034WS	KKC 8040 - Wide	Wiring Duct	80	36,8	40	11,00	1,60	1,60	12,60	8	12	2,1
551 019WS	KKC 8060 - Wide	Wiring Duct	80	57,0	60	12,00	1,80	1,80	13,80	8	12	2,1
551 020WS	KKC 8080 - Wide	Wiring Duct	80	77,1	80	14,00	1,80	1,80	15,80	8	12	2,1
551 035WS	KKC 8010 - Wide	Wiring Duct	80	97,2	100	16,00	2,20	2,20	18,20	8	12	2,1
551 021WS	KKC 1006 - Wide	Wiring Duct	100	57,3	60	12,00	2,00	2,00	14,00	8	12	2,1
551 022WS	KKC 1008 - Wide	Wiring Duct	100	77,2	80	14,00	2,00	2,00	16,00	8	12	2,1
551 036WS	KKC 1001 - Wide	Wiring Duct	100	97,2	100	16,00	2,20	2,30	18,20	8	12	2,1
551 023WS	KKC 1206 - Wide	Wiring Duct	120	57,6	60	12,00	2,30	2,00	14,30	8	12	2,1
551 024WS	KKC 1208 - Wide	Wiring Duct	120	77,5	80	14,00	2,30	2,00	16,30	8	12	2,1
551 025WS	KKC 1201 - Wide	Wiring Duct	120	97,5	100	16,00	2,40	2,40	18,40	8	12	2,1
551 040WS	KKC 1501 - Wide	Wiring Duct	150	98,1	100	16,00	2,70	2,70	18,70	8	12	2,1



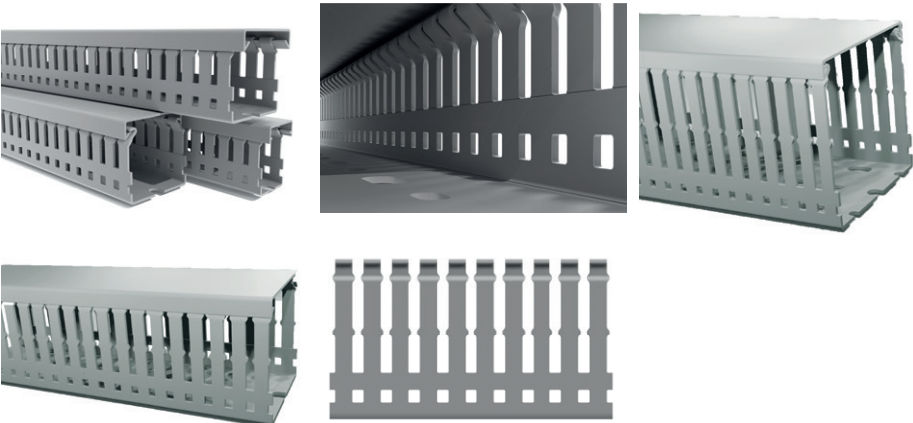
PVC Wiring Duct with Additional Holes (Wide Slotted)

Technical Specifications

Wiring Duct



Order No	Type	Description	Size (mm)										Color	Qty.
			A	B	C	D	E	F	G	H	I	J		
555 2530	KKD 2530 - Narrow	Wiring Duct	25	26,4	30	11,00	1,40	1,40	12,40	4	6	2,10	Grey	50x2 m
555 2540	KKD 2540 - Narrow	Wiring Duct	25	36,2	40	14,60	1,40	1,40	16,00	4	6	2,10	Grey	50x2 m
555 2560	KKD 2560 - Narrow	Wiring Duct	25	56,4	60	14,90	1,60	1,60	16,50	4	6	2,10	Grey	30x2 m
555 2580	KKD 2580 - Narrow	Wiring Duct	25	76,8	80	17,20	1,80	1,80	19,00	4	6	2,10	Grey	28x2 m
555 2510	KKD 2510 - Narrow	Wiring Duct	25	96,6	100	17,20	1,90	1,90	19,10	4	6	2,10	Grey	22x2 m
555 4040	KKD 4040 - Narrow	Wiring Duct	40	36,5	40	14,60	1,40	1,40	16,00	4	6	2,10	Grey	26x2 m
555 4060	KKD 4060 - Narrow	Wiring Duct	40	56,5	60	14,90	1,60	1,60	16,50	4	6	2,10	Grey	18x2 m
555 4080	KKD 4080 - Narrow	Wiring Duct	40	76,8	80	17,20	1,80	1,80	19,00	4	6	2,10	Grey	20x2 m
555 4010	KKD 4010 - Narrow	Wiring Duct	40	96,9	100	17,20	1,90	2,00	19,10	4	6	2,10	Grey	14x2 m
555 6040	KKD 6040 - Narrow	Wiring Duct	60	36,8	40	14,20	1,60	1,60	16,00	4	6	2,10	Grey	18x2 m
555 6060	KKD 6060 - Narrow	Wiring Duct	60	56,8	60	14,70	1,80	1,80	16,50	4	6	2,10	Grey	12x2 m
555 6080	KKD 6080 - Narrow	Wiring Duct	60	76,7	80	17,20	1,80	1,80	19,00	4	6	2,10	Grey	12x2 m
555 6010	KKD 6010 - Narrow	Wiring Duct	60	96,9	100	17,10	2,00	2,00	19,10	4	6	2,10	Grey	18x2 m
555 8040	KKD 8040 - Narrow	Wiring Duct	80	36,8	40	14,20	1,60	1,60	16,00	4	6	2,10	Grey	18x2 m
555 8060	KKD 8060 - Narrow	Wiring Duct	80	57,00	60	14,70	1,80	1,80	16,50	4	6	2,10	Grey	14x2 m
555 8080	KKD 8080 - Narrow	Wiring Duct	80	77,1	80	17,20	1,80	1,80	19,00	4	6	2,10	Grey	10x2 m
555 8010	KKD 8010 - Narrow	Wiring Duct	80	97,2	100	16,90	2,20	2,20	19,10	4	6	2,10	Grey	12x2 m
555 1006	KKD 1006 - Narrow	Wiring Duct	100	57,3	60	14,50	2,00	2,00	16,50	4	6	2,10	Grey	10x2 m
555 1008	KKD 1008 - Narrow	Wiring Duct	100	77,2	80	17,00	2,00	2,00	19,00	4	6	2,10	Grey	8x2 m
555 1001	KKD 1001 - Narrow	Wiring Duct	100	97,2	100	16,90	2,20	2,30	19,10	4	6	2,10	Grey	12x2 m
555 1206	KKD 1206 - Narrow	Wiring Duct	120	57,6	60	14,20	2,30	2,00	16,50	4	6	2,10	Grey	8x2 m
555 1208	KKD 1208 - Narrow	Wiring Duct	120	77,5	80	16,70	2,30	2,00	19,00	4	6	2,10	Grey	6x2 m
555 1201	KKD 1201 - Narrow	Wiring Duct	120	97,5	100	16,70	2,40	2,40	19,10	4	6	2,10	Grey	10x2 m
555 1501	KKD 1501 - Narrow	Wiring Duct	150	98,1	100	16,60	2,70	2,70	19,10	4	6	2,10	Grey	10x2 m

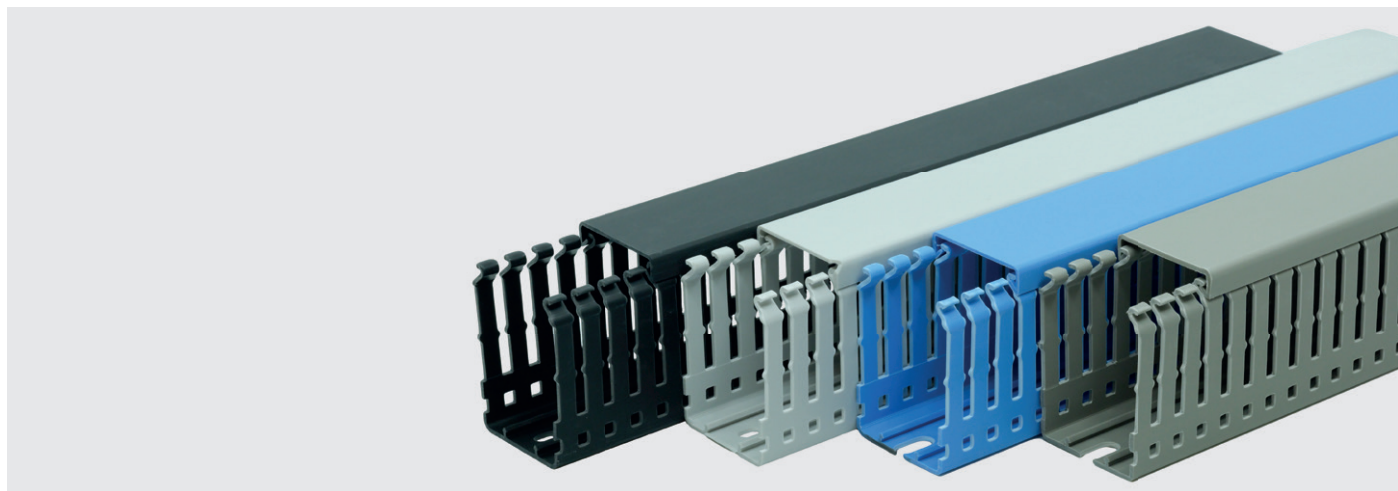


- Can be used with cable tie thanks to additional holes on the sides.
- Flame-retardant, self-extinguishing according to UL94-V0
- Upper scorline is available for breaking off the ribs.
- Lower scorline is available.
- Operating Temperature: -15°C to 60°C
- Standard Length: 2 meters
- Color Option: RAL 7030 Grey
- Complies with RoHS regulations.
- Complies with IEC 60695-2-1 and EN 50085-2-3 standards.

* Wiring duct covers are included the package.

PVC Wiring Duct with Additional Holes (Wide Slotted)

Technical Specifications



Order No	Type	Description	Size (mm)										Color	Qty.
			A	B	C	D	E	F	G	H	I	J		
555 2540WS	KKD 2540 - Wide	Wiring Duct	25	36,2	40	14,6	1,4	1,4	16	8	12	2,1	Grey	50x2 m
555 2560WS	KKD 2560 - Wide	Wiring Duct	25	56,4	60	14,9	1,6	1,6	16,5	8	12	2,1	Grey	30x2 m
555 2580WS	KKD 2580 - Wide	Wiring Duct	25	76,8	80	17,2	1,8	1,8	19	8	12	2,1	Grey	28x2 m
555 2510WS	KKD 2510 - Wide	Wiring Duct	25	96,6	100	17,2	1,9	1,9	19,1	8	12	2,1	Grey	22x2 m
555 4040WS	KKD 4040 - Wide	Wiring Duct	40	36,5	40	14,6	1,4	1,4	16	8	12	2,1	Grey	26x2 m
555 4060WS	KKD 4060 - Wide	Wiring Duct	40	56,5	60	15	1,6	1,6	16,6	8	12	2,1	Grey	50x2 m
555 4080WS	KKD 4080 - Wide	Wiring Duct	40	76,8	80	17,2	1,8	1,8	19	8	12	2,1	Grey	50x2 m
555 4010WS	KKD 4010 - Wide	Wiring Duct	40	96,9	100	17,2	1,9	2	19,1	8	12	2,1	Grey	30x2 m
555 6040WS	KKD 6040 - Wide	Wiring Duct	60	36,8	40	14,2	1,6	1,6	16	8	12	2,1	Grey	18x2 m
555 6060WS	KKD 6060 - Wide	Wiring Duct	60	56,8	60	14,8	1,8	1,8	16,6	8	12	2,1	Grey	28x2 m
555 6080WS	KKD 6080 - Wide	Wiring Duct	60	76,7	80	17,2	1,8	1,8	19	8	12	2,1	Grey	22x2 m
555 6010WS	KKD 6010 - Wide	Wiring Duct	60	96,9	100	17,1	2	2	19,1	8	12	2,1	Grey	26x2 m
555 8040WS	KKD 8040 - Wide	Wiring Duct	80	36,8	40	14,2	1,6	1,6	16	8	12	2,1	Grey	18x2 m
555 8060WS	KKD 8060 - Wide	Wiring Duct	80	57	60	14,8	1,8	1,8	16,6	8	12	2,1	Grey	18x2 m
555 8080WS	KKD 8080 - Wide	Wiring Duct	80	77,1	80	17,2	1,8	1,8	19	8	12	2,1	Grey	20x2 m
555 8010WS	KKD 8010 - Wide	Wiring Duct	80	97,2	100	16,9	2,2	2,2	19,1	8	12	2,1	Grey	14x2 m
555 1006WS	KKD 1006 - Wide	Wiring Duct	100	57,3	60	14,6	2	2	16,6	8	12	2,1	Grey	18x2 m
555 1008WS	KKD 1008 - Wide	Wiring Duct	100	77,2	80	17	2	2	19	8	12	2,1	Grey	12x2 m
555 1001WS	KKD 1001 - Wide	Wiring Duct	100	97,2	100	16,9	2,2	2,3	19,1	8	12	2,1	Grey	12x2 m
555 1206WS	KKD 1206 - Wide	Wiring Duct	120	57,6	60	14,3	2,3	2	16,6	8	12	2,1	Grey	18x2 m
555 1208WS	KKD 1208 - Wide	Wiring Duct	120	77,5	80	16,7	2,3	2	19	8	12	2,1	Grey	18x2 m
555 1201WS	KKD 1201 - Wide	Wiring Duct	120	97,5	100	16,7	2,4	2,4	19,1	8	12	2,1	Grey	14x2 m
555 1501WS	KKD 1501 - Wide	Wiring Duct	150	98,1	100	16,6	2,7	2,7	19,1	8	12	2,1	Grey	10x2 m

Color			
Color code is the last digit of the order number			
Blue	Black	White	Grey
.....BL	BK	W	BG

CE Sign

The letters CE stand for Comformite Europeene. CE sign confirms that a product meets the demands of all relevant guidelines and regulations of the European Union (EU), and declares a product is appropriate for human security and health. The products of Klemsan are subject to below directives:

1- Low Voltage Directive (LVD) - 73/23 EEC

This directive includes electrical devices which function in the range of 50-1000 V (alternative current) and 75-1500 V (direct current).

2- Equipment for use in potentially Explosive Atmospheres (ATEX) - 94/9 EEC. ATEX is the name commonly given to the framework for controlling explosive atmospheres and the standards of equipment and protective systems used in them.

RoHS

The RoHS Directive stands for "Restriction of the use of certain Hazardous Substances in electrical and electronic equipment". This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants. The permitted ratios are below:

Cd - Cadmium - %0,01 ppm

Hg - Mercury - %0,1 ppm

Cr(VI) - Hexavalent chromium (coating) - %0,1 ppm

PBB - Polybrominated biphenyl (flame retardant) - %0,1 ppm

PBDE - Polybrominated diphenyl ether (flame retardant) - %0,1 ppm

Pb - Lead - %0,1 ppm

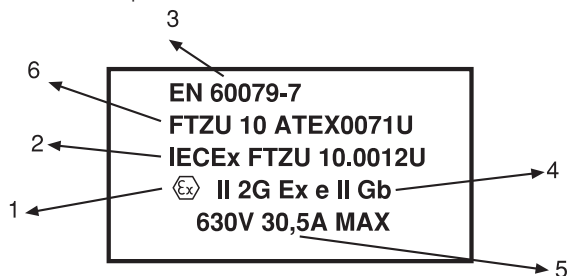
ppm: parts per million (in total weight)

Klemsan has developed some processes and components in accordance with RoHS Directives in 2006, and had its products tested in the approved laboratories, and achieved RoHS Conformity Approvals.

Pollution Severities

Pollution SeveATEX Directives regulating the "94/9/EC - use of equipment in potentially explosive atmospheres was put into force on December 1st 2003 by the European Union. By this directive, rated values for normal operating conditions have been revised for potentially explosive areas.

Below figure illustrates and verbalizes the meaning of the labels ATEX certificated products:



- 1- Explosion Protection Symbol
- 2- International Explosive Protection Certificate Number
- 3- Standard Reference Number
- 4- a-Equipment Group II
- b-Product Category 2 - for usage in zone 1 and/ or 2
- c-Approval for applications in gas (G) environment
- d- "e" class for having increased safety category
- 5- Rated voltage and current values
- 6- Notified body name

EQUIPMENT GROUP

1- Mines

2- Other industry branches

CLASSIFICATION OF POTENTIALLY EXPLOSIVE AREAS

ZONE 0: Places where the potential for explosion is high and duration is long under normal operating conditions

ZONE 1: Places where the potential for explosion is low and duration is short under normal operating conditions

ZONE 2: Places where there is no potential for explosion under normal operating conditions or low potential for explosion with short duration under defect, repair and maintenance situations.

"e" CLASS INCREASED SAFETY

This is an application where the precautions are taken although there is no arc occurring under normal operating conditions. Security of the device is increased one step further. This application is used in environments with no danger of high temperature under normal operations e.g. in terminal block Boxes, cable connections. Such products do not need to be pressure resistant; it is sufficient to get their IP degree up to a level that assures water and humidity resistance.

Reach Directive

As the name implies, the 2006/1907/EC REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) directive, adopted by the European Union on 1 June 2007, obliges companies that produce, import or use chemical substances to register these substances and their uses and determine any related dangers and risks if required.



European Chemical Agency (ECHA) will publish the lists of SVHC (Substances of very high concern)

As of 01 December 2011, companies exporting goods into the EU must give a declaration to ECHA about their usage of SCVH as to whether the goods contain these materials in more than %0.1 SVHC as concentration/weight and more than 1 ton/year SVHC.

The European Union, by these directives, aims to record all the chemicals used in the industry and investigating these chemicals as to whether they have any hazardous effect on human health and environment, it can restrict or prohibit the usage of some chemicals in the industry.

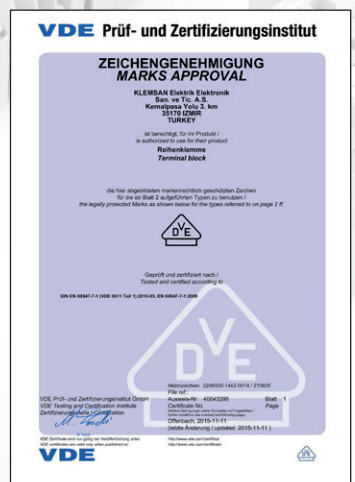
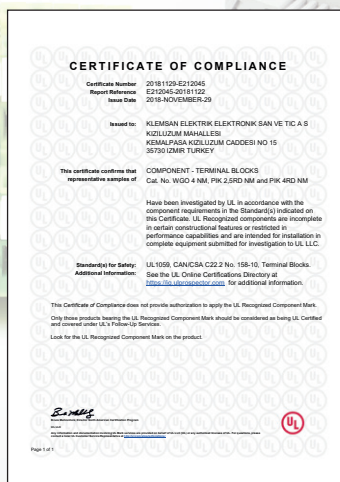
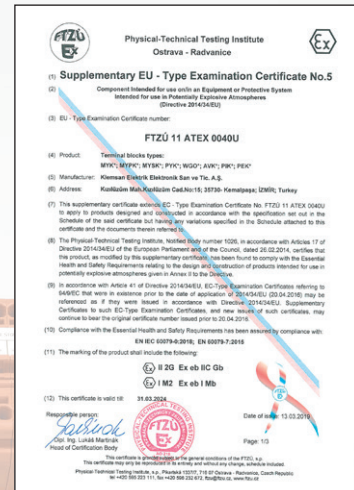
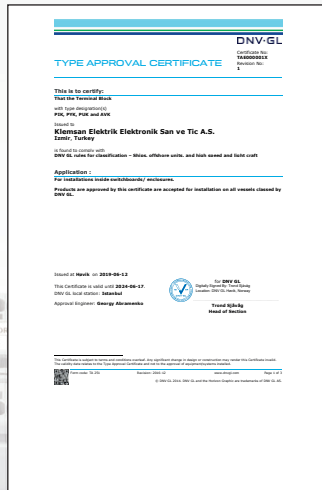
Important Notice

- Klemasan Inc. reserves the rights for any changes in this catalogue.
- For the products that are not included in our catalogue please contact with our Trade Department.
- Figures and technical specs in this catalogue are only for general purpose.
- Our products are assembled to be in accordance with EC technical regulations and correspond to the national and international standards. All our products are fabricated in our ISO 9001 and ISO 14001 certified manufacturing plants.

• For further information on the certificates: Tel : +90 (232) 877 08 00 • Fax: +90 (232) 877 08 06

• All terminal blocks within the scope of this product catalog are compatible with the Rules for the classification and construction of sea going ships, the Technical Regulation Concerning the safety of Sea Transport Items (TR-620)

ISO 50001- ISO 9001 - ISO 14001



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