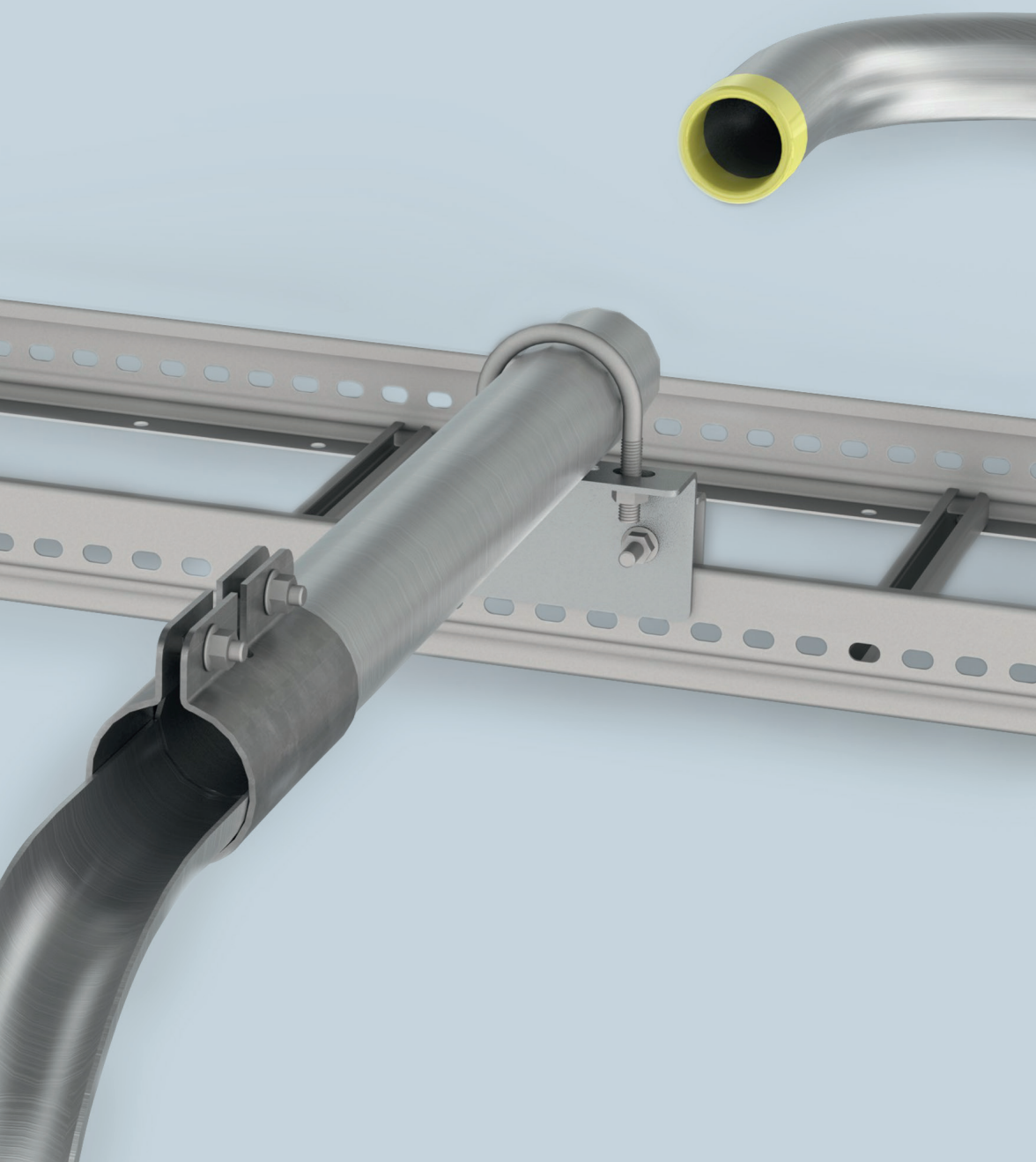




KSR

CABLE PROTECTION CONDUIT SYSTEM



New in the assortment	Side rail height in mm	Operating temperature range	Hardware
Discontinued model	Wire diameter in mm	Fast install	Installation instructions
Halogen-free	Cover hole and depth in mm	Glow wire test acc. DIN EN 60695-2-10 / VDE 0471-2-10	Reference note
Silicone-free	Pipe diameter in mm	acc. DIN EN 60695-2-11 / VDE 0471-2-11	Information pages

All products in this catalog are classified according to the EAN code (13 digits). The first 7 digits indicate the country (40 = Germany) and the manufacturer's code (13339 = Niedax). The following six digits are the product code.
Example EAN code of the product TK 60.85 = 40 13339 183708



Please ask for the certifications VDE/UL



BIM-Data on request

Steel

B Steel, bare
V Steel, electro galvanised according to DIN EN ISO 19598 and DIN EN ISO 2081, blue passivated, (connecting elements galvanised according to DIN EN ISO 4042)
VC Stahl, electro galvanised according to DIN EN ISO 19598 and DIN EN ISO 2081, blue passivated and powdercoated
VZL Stahl, electro galvanised, passivated, top layer sealed
G Steel, electro galvanised according to DIN EN ISO 19598 and DIN EN ISO 2081, thick-film passivated, (connecting elements galvanised according to DIN EN ISO 4042)
S Steel, pre-galvanised according to DIN EN 10346
F Stahl, hot dip galvanised according to DIN EN ISO 1461 (replacement for DIN 50 976), (connecting elements hot dip galvanised according to DIN EN ISO 10684)
SB Steel, black-oxide finish
FG Steel, geomet® galvanised
DV Steel, wire galvanised according to DIN EN 10244
C1 Epoxy Coating, halogen-free
C COLOR Steel, pre-galvanised and powder coated

C	STANDARD COLOURS			SURFACE IN ALUMINIUM	
	VW	L	WA	N	P
Complete model-No for the colour identity	traffic white RAL 9016	light grey RAL 7035 on stock	white aluminium RAL 9006	aluminium natural anodized	aluminium plate-finished

Other RAL colours on request. For possible colour divergences we assume no liability.

F1 Steel, zinc coating and chromate Steel, zinc coating & chromate Thickness of zinc is between 8-12 microns, electrolytic galvanizing & additionally chromated. Corrosion resistance measured by using a salt spray test acc. to DIN 50021 (ASTM-B117-90) at least 72 hours.	F6 Natural colour Untreated material against corrosion.
F2 Steel, hot dip galvanised Thickness of zinc between 50-70 microns, after immersion machining in a bath of molten zinc.	F7 Steel, plastic coating EVA (Ethylene Vinyl Acetate Copolymer Saponifies, Levasint®) resistance to fire according to DIN 4102.
F3 Stainless steel (material code: 1.4401 [316]) Indoor use / Outdoor in humid environments and moderately aggressive.	F8 Steel, mechanical zinc plated / passivated High quality coating. Corrosion resistance measured by means of a test salt spray according to DIN 50 021 (ASTM-B117-90) is at least 500 hours.
F4 Steel, coated Dekor-lacquer interior use in dry environments and not corrosive.	F9 Steel, mechanical zinc plated / passivated High quality coating. Corrosion resistance measured by means of a test salt spray according to DIN 50021 (ASTM-B117-90) is at least 600 hours.
F5 Brass For indoor use only.	F10 Steel, electrical mechanical / passivated Zinc coating thickness of 5 microns, electrolytically applied and clear passivated according to BS EN 12329 2000 FE/ZN5//A.

AL Aluminium, N = naturally anodized, P = mill-finished, C = powdercoated in RAL colours		
P Electrotechnical Porcelain, halogen-free	MS Brass	CU Copper

Stainless Steel

E1 Material code: 1.4016	E4 Material code: 1.4404/AISI 316L	E7 Material code: 1.4547	E10 Material code: 1.4307/AISI 304L
E2 Material code: 1.4310	E5 Material code: 1.4571/AISI 316Ti	E8 Material code: 1.4430	E11 Material code: 1.4034
E3 Material code: 1.4301/AISI 304	E6 Material code: 1.4529	E9 Material code: 1.4362	E12 Material code: 1.4462

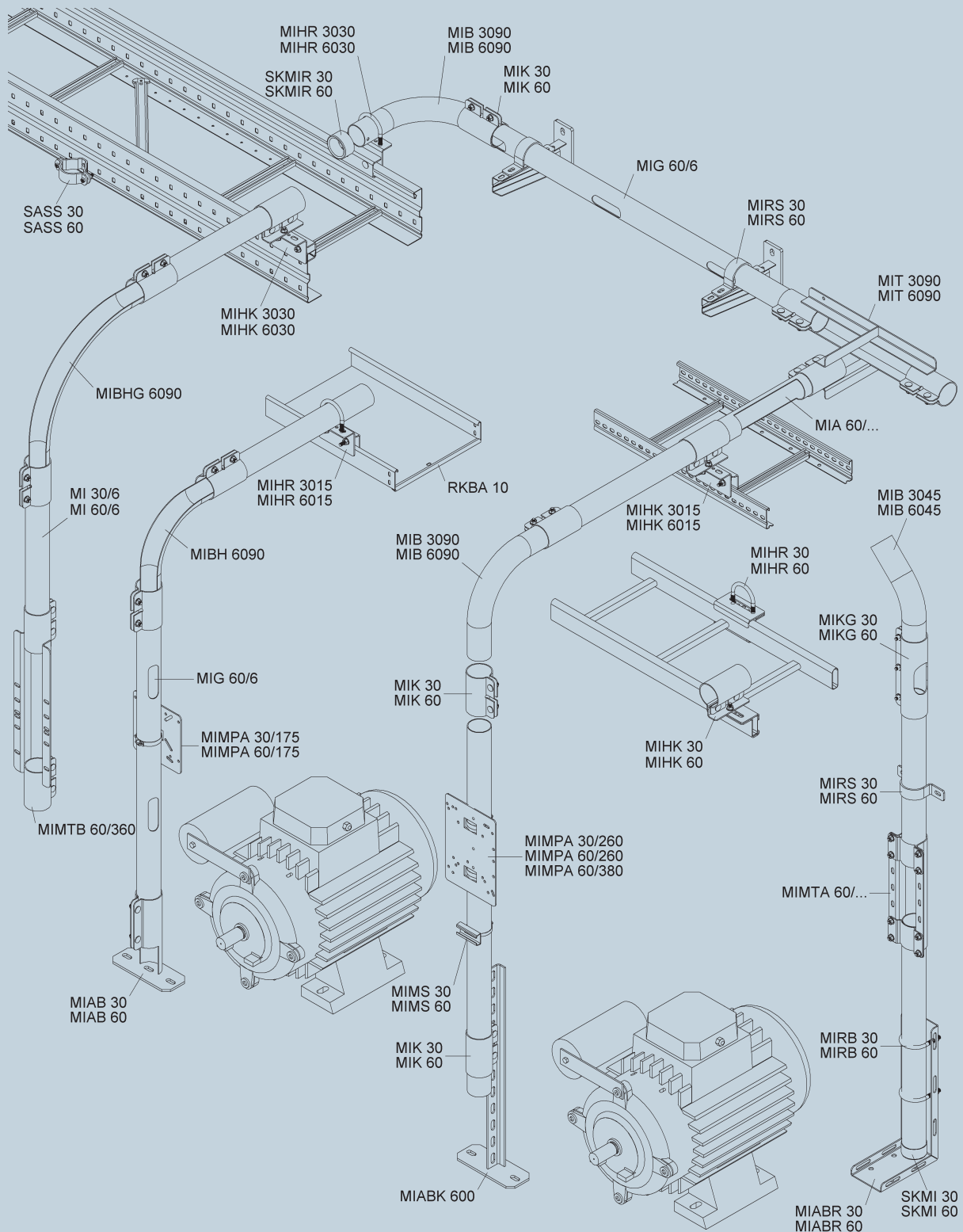
Plastics/Elastomer

K01 PA - Polyamide, halogen-free	K14 POM - Polyoxymethylene, halogen-free
K02 PS - Polystyrene, impact resistant, halogen-free	K15 SBR - Styrene Butadiene Rubber, halogen-free
K03 PE - Polyethylene, halogen-free	K16 CR/NBR - Chloroprene/Nitrile Butadiene Rubber, halogenated
K04 PP - Polypropylene, halogen-free	K17 CR/SBR - Chloroprene/Styrene Butadiene Rubber, halogenated
K05 PC - Polycarbonate, halogen-free	K18 TPE - Thermoplastic Elastomers, halogen-free
K06 SBR/NBR - Styrene Butadiene Nitrile Rubber, halogen-free	K19 FS 31 - Moulding material 31 (Phenolic Resin), halogen-free
K07 CR - Neoprene (Chloroprene Rubber), halogen-free	K20 SI - Silicone Rubber, halogen-free
K08 NBR - Nitrile Butadiene Rubber, halogen-free	K21 PUR - Polyurethanes, halogen-free
K09 PVC-hard - Polyvinyl Chloride Hard, halogenated	K22 PET - Polyethylene Terephthalate, halogen-free
K10 PVC-soft - Polyvinyl Chloride Soft, halogenated	K23 UP-GF - Glass Fiber Reinforced Polyester, halogen-free
K11 ABS - Acrylnitrile Butadiene Styrene, halogen-free	K24 PBT - Polybutylene Terephthalate, halogen-free
K12 ASA - Acrylic Acid Ester-Styrene-Acrylonitrile Graft Copolymer, halogen-free	

PLEASE BE AWARE

- The thermal expansion coefficient states the length increase / - decrease of a material when the temperature changes by 1 K.
 $\alpha_{\text{Steel}} = 0,012 \times 10^{-3} \text{ K}^{-1}$, $\alpha_{\text{Alu}} = 0,024 \times 10^{-3} \text{ K}^{-1}$, $\alpha_{\text{PVC}} = 0,072 \times 10^{-3} \text{ K}^{-1}$ $\Delta l = l_{\text{Kanal}} \times \alpha \times \Delta \vartheta$
- Check heat increase when using large amounts of power cables see DIN VDE 298 Part 4.
- To ensure Health & Safety please wear gloves and other PPE when transporting or assembling the products.
- Small differences might exist when comparing catalogue illustrations and the real products. The function of the parts however remains intact.

The Cable Protection Conduit System is available in 30 mm and 60 mm diameter in both Hot Dipped Galvanised and Stainless Steel finish. It is used for special installations where conventional cable management systems are insufficient. The vertical installation from the cable distribution (e.g. cable ladders) to the power consumption can be carried out efficiently. With High Corrosion resistance even in extreme temperatures it keeps its mechanical protection. A wide variety of accessories offers great flexibility to the user while the installation is simple and safe.

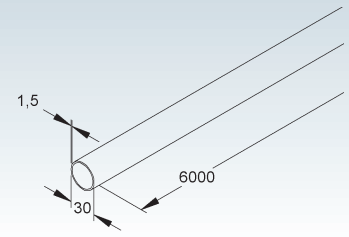


CABLE PROTECTION CONDUIT SYSTEM

Electrical Conduit

	Model No.	Dia- meter	Length L	EAN code	Weight in kg per 100 m	Smallest packaging unit
		mm	mm			
F	MI 30/6 F	30	6000	906901	115,97	6 m
E3	MI 30/6 E3	30	6000	908103	113,30	6 m

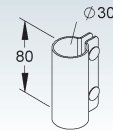
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Coupler

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pcs./20 pcs.	Smallest packaging unit
		mm			
F	MIK 30 F	30	906987	14,72	20 pcs.
E3	MIK 30 E3	30	908189	13,81	20 pcs.

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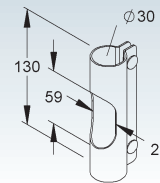


Coupler

perforated

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIKG 30 F	30	907007	20,34	20 pcs.
E3	MIKG 30 E3	30	908202	18,71	20 pcs.

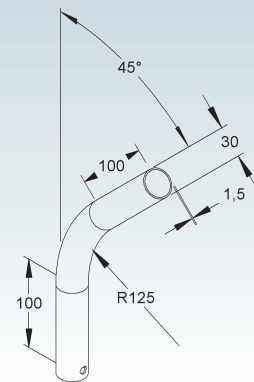
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Conduit Elbow 45°

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIB 3045 F	30	906925	38,5	1 pc.
E3	MIB 3045 E3	30	908127	35,0	1 pc.

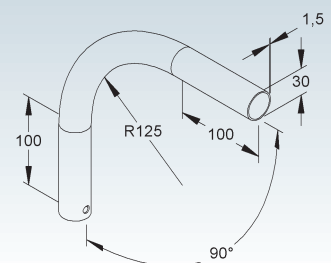
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Conduit Elbow 90°

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIB 3090 F	30	906949	52,8	1 pc.
E3	MIB 3090 E3	30	908141	48,0	1 pc.

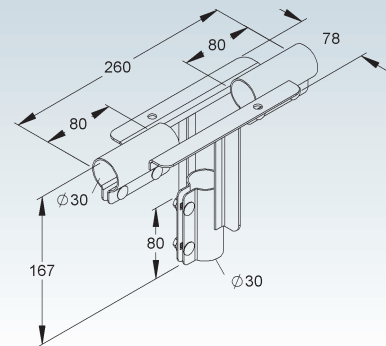
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T-Piece

Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm			
F MIT 3090 F	30	906963	75,18	1 pc.
E3 MIT 3090 E3	30	908165	69,93	1 pc.

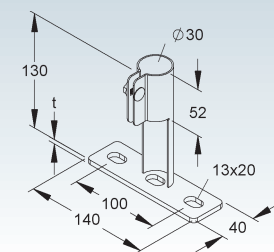
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Floor Mounting

Model No.	Dia- meter	Material thickness (t)	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm	mm			
F MIAB 30 F	30	5	907021	35,64	1 pc.
E3 MIAB 30 E3	30	4	908226	28,90	1 pc.

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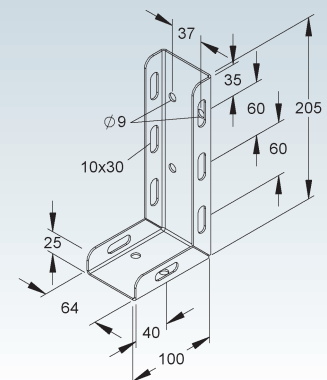


Floor Mounting

Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm			
F MIABR 30 F	30	907045	49,26	1 pc.
E3 MIABR 30 E3	30	908240	45,07	1 pc.

for mounting with round steel bracket

30



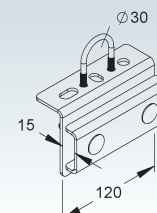
Beam Connection Holder

with round steel bracket

Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm			
F MIHR 3015 F	30	907106	59,86	1 pc.
E3 MIHR 3015 E3	30	908301	57,36	1 pc.

for mounting to cable tray or cable ladder

30



CABLE PROTECTION CONDUIT SYSTEM

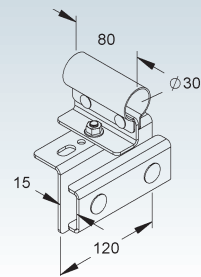
Beam Connection Holder

with coupler

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIHK 3015 F	30	907120	86,27	1 pc.
E3	MIHK 3015 E3	30	908325	79,23	1 pc.

for mounting to cable tray or cable ladder

30



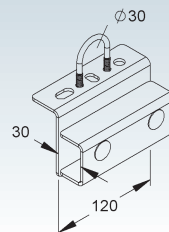
Beam Connection Holder

with round steel bracket

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIHR 3030 F	30	907144	68,77	1 pc.
E3	MIHR 3030 E3	30	908349	65,89	1 pc.

for mounting to wide span cable tray or wide span ladder

30



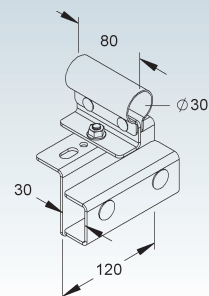
Beam Connection Holder

with coupler

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIHK 3030 F	30	907168	95,60	1 pc.
E3	MIHK 3030 E3	30	908363	87,77	1 pc.

for mounting to wide span cable tray or wide span ladder

30



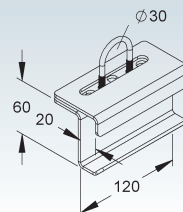
Beam Connection Holder

with round steel bracket

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIHR 30 F	30	907182	56,63	1 pc.
E3	MIHR 30 E3	30	908387	54,30	1 pc.

for mounting to allround cable ladder

30



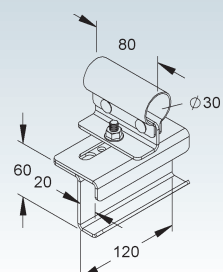
Beam Connection Holder

with coupler

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIHK 30 F	30	907205	83,20	1 pc.
E3	MIHK 30 E3	30	908400	76,57	1 pc.

for mounting to allround cable ladder

30

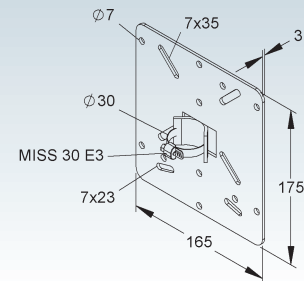


Mounting Plate

incl. 1 screw clamp

	Model No.	Height H	Dia-meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm	mm			
F	MIMPA 30/175 F	175	30	907069	72,65	1 pc.
E3	MIMPA 30/175 E3	175	30	908264	66,62	1 pc.

30

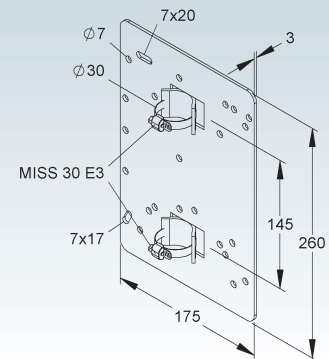


Mounting Plate

incl. 2 screw clamp

	Model No.	Height H	Dia-meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm	mm			
F	MIMPA 30/260 F	260	30	907083	119,53	1 pc.
E3	MIMPA 30/260 E3	260	30	908288	109,64	1 pc.

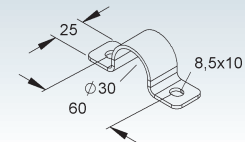
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Conduit Clamp

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIRS 30 F	30	907229	6,00	20 pcs.
E3	MIRS 30 E3	30	908424	5,61	20 pcs.

30

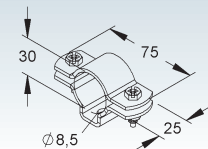


Screw Distance Clamp

heavy

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	SASS 30 F	30	907236	11,33	20 pcs.
E3	SASS 30 E3	30	908431	10,42	20 pcs.

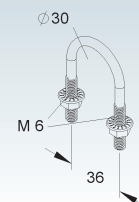
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Round Steel Bracket

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIRB 30 F	30	907243	2,96	20 pcs.
E3	MIRB 30 E3	30	908448	3,00	20 pcs.

30



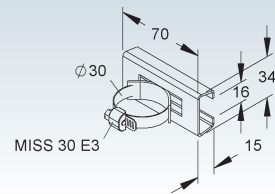
CABLE PROTECTION CONDUIT SYSTEM

Mounting Profile

incl. 1 screw clamp

Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm			
F MIMS 30 F	30	907267	7,99	1 pc.
E3 MIMS 30 E3	30	908462	7,19	1 pc.

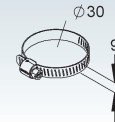
30



Worm Thread Clamp

Model No.	Dia- meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
	mm			
E3 MISS 30 E3	30	908486	1,69	50 pcs.

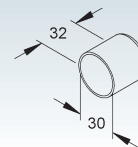
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Protective Cap

Model No.	Dia- meter	Colour	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
	mm				
K10 SKMI 30	30	yellow	907281	1	50 pcs.

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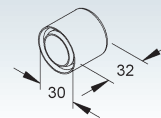


The end caps must be arranged in personal danger areas!

Protective Ring

Model No.	Dia- meter	Colour	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
	mm				
K03 SKMIR 30	30	yellow	907304	0,95	50 pcs.

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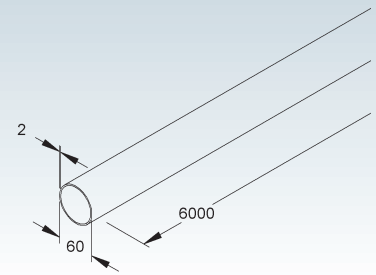
The protective rings must be arranged in personal danger areas!



Electrical Conduit

	Model No.	Dia- meter	Length L	EAN code	Weight in kg per 100 m	Smallest packaging unit
		mm	mm			
F	MI 60/6 F	60	6000	907328	281,6	6 m
E3	MI 60/6 E3	60	6000	908509	308,0	6 m

60

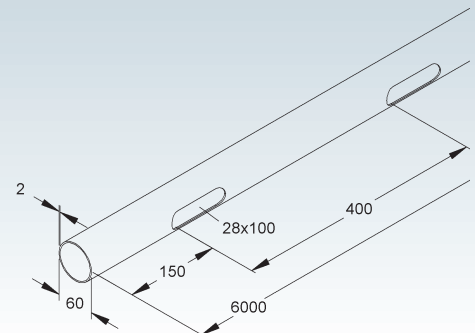


Electrical Conduit

perforated

	Model No.	Dia- meter	Length L	EAN code	Weight in kg per 100 m	Smallest packaging unit
		mm	mm			
F	MIG 60/6 F	60	6000	907342	296	6 m

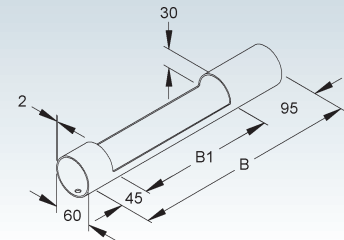
60



Installation Conduit Connection

	Model No.	Dia- meter	Width B	Width B1	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm	mm	mm			
F	MIA 60/260 F	60	260	120	907700	62,85	1 pc.
F	MIA 60/360 F	60	360	220	907724	78,60	1 pc.
F	MIA 60/460 F	60	460	320	907748	94,33	1 pc.
F	MIA 60/560 F	60	560	420	907762	110,06	1 pc.
F	MIA 60/660 F	60	660	520	907786	125,80	1 pc.
E3	MIA 60/260 E3	60	260	120	908769	57,59	1 pc.

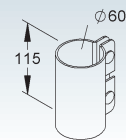
60



Coupler

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIK 60 F	60	907465	62,44	20 pcs.
E3	MIK 60 E3	60	908608	57,33	20 pcs.

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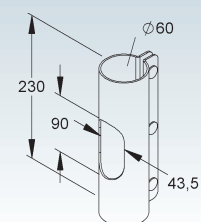


Coupler

perforated

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIKG 60 F	60	907489	116,91	10 pcs.
E3	MIKG 60 E3	60	908622	107,32	10 pcs.

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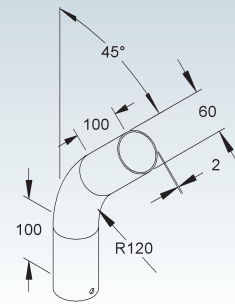


CABLE PROTECTION CONDUIT SYSTEM

Conduit Elbow 45°

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIB 6045 F	60	907366	92,4	1 pc.
E3	MIB 6045 E3	60	908523	92,0	1 pc.

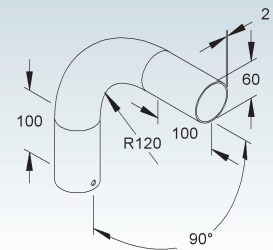
60



Conduit Elbow 90°

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIB 6090 F	60	907380	120,89	1 pc.
E3	MIB 6090 E3	60	908547	125,40	1 pc.

60

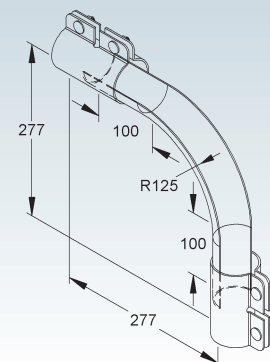


Conduit Elbow 90°

half-open, radius 125 mm

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIBH 6090 F	60	907403	190,09	1 pc.
E3	MIBH 6090 E3	60	908561	174,32	1 pc.

60

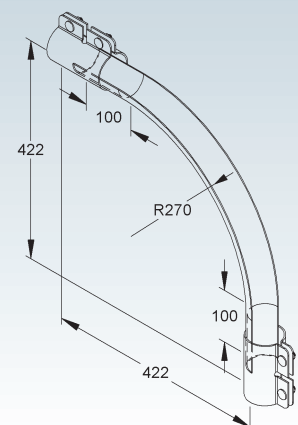


Conduit Elbow 90°

half-open, radius 270 mm

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIBHG 6090 F	60	907427	225,93	1 pc.

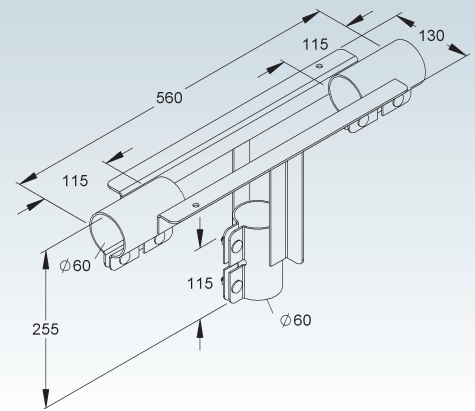
60



T-Piece

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIT 6090 F	60	907441	374,47	1 pc.
E3	MIT 6090 E3	60	908585	343,48	1 pc.

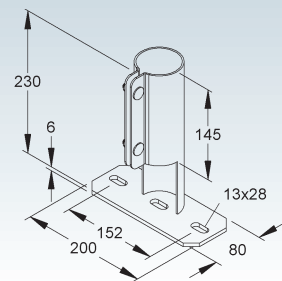
60



Floor Mounting

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIAB 60 F	60	907502	172,50	1 pc.
E3	MIAB 60 E3	60	908646	158,03	1 pc.

60

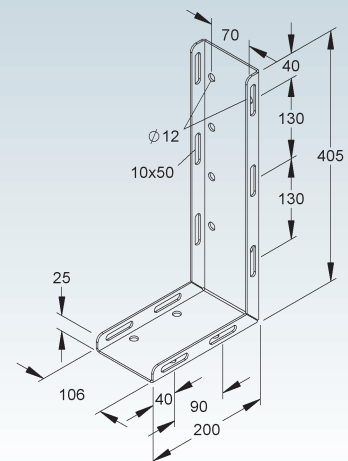


Floor Mounting

	Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIABR 60 F	60	907526	209,54	1 pc.
E3	MIABR 60 E3	60	908660	191,71	1 pc.

for mounting with round steel bracket

60

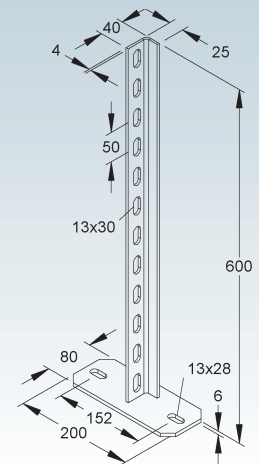


CABLE PROTECTION CONDUIT SYSTEM

Floor Mounting

Model No.	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F MIABK 600 F	600	907922	182,96	1 pc.
E3 MIABK 600 E3	600	908905	167,39	1 pc.

for mounting with coupler



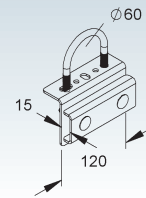
Beam Connection Holder

with round steel bracket

Model No.	Dia- meter mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F MIHR 6015 F	60	907809	70,54	1 pc.
E3 MIHR 6015 E3	60	908783	67,57	1 pc.

for mounting to cable tray or cable ladder

60



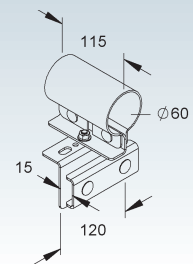
Beam Connection Holder

with coupler

Model No.	Dia- meter mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F MIHK 6015 F	60	907823	139,11	1 pc.
E3 MIHK 6015 E3	60	908806	127,43	1 pc.

for mounting to cable tray or cable ladder

60



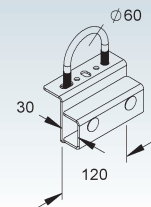
Beam Connection Holder

with round steel bracket

Model No.	Dia- meter mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F MIHR 6030 F	60	907847	79,44	1 pc.
E3 MIHR 6030 E3	60	908820	76,10	1 pc.

for mounting to wide span cable tray or wide span ladder

60



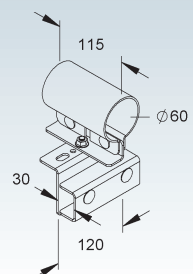
Beam Connection Holder

with coupler

Model No.	Dia- meter mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F MIHK 6030 F	60	907861	148,43	1 pc.
E3 MIHK 6030 E3	60	908844	135,96	1 pc.

for mounting to wide span cable tray or wide span ladder

60



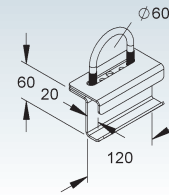
Beam Connection Holder

with round steel bracket

Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm			
F MIHR 60 F	60	907885	67,31	1 pc.
E3 MIHR 60 E3	60	908868	64,51	1 pc.

for mounting to allround cable ladder

60



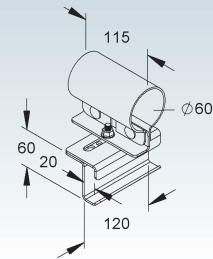
Beam Connection Holder

with coupler

Model No.	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm			
F MIHK 60 F	60	907908	136,04	1 pc.
E3 MIHK 60 E3	60	908882	124,77	1 pc.

for mounting to allround cable ladder

60

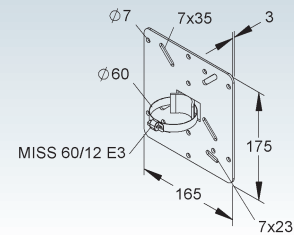


Mounting Plate

incl. 1 screw clamp

Model No.	Height H	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm	mm			
F MIMPA 60/175 F	175	60	907540	74,30	1 pc.
E3 MIMPA 60/175 E3	175	60	908684	68,27	1 pc.

60

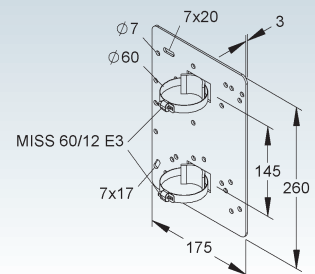


Mounting Plate

incl. 2 screw clamp

Model No.	Height H	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm	mm			
F MIMPA 60/260 F	260	60	907564	122,83	1 pc.
E3 MIMPA 60/260 E3	260	60	908707	112,94	1 pc.

60

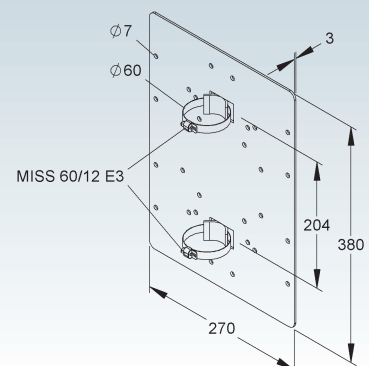


Mounting Plate

incl. 2 screw clamp

Model No.	Height H	Dia- meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm	mm			
F MIMPA 60/380 F	380	60	907588	270,77	1 pc.
E3 MIMPA 60/380 E3	380	60	908721	248,29	1 pc.

60

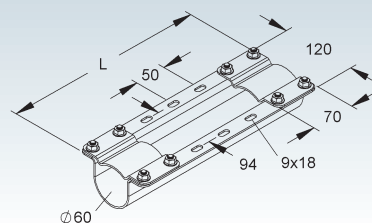


CABLE PROTECTION CONDUIT SYSTEM

Mounting Support

	Model No.	Length L	Dia-meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm	mm			
F	MIMTA 60/325 F	325	60	907601	181	1 pc.
F	MIMTA 60/425 F	425	60	907625	223	1 pc.
F	MIMTA 60/525 F	525	60	907649	265	1 pc.
F	MIMTA 60/625 F	625	60	907663	306	1 pc.
E3	MIMTA 60/325 E3	325	60	908745	181	1 pc.

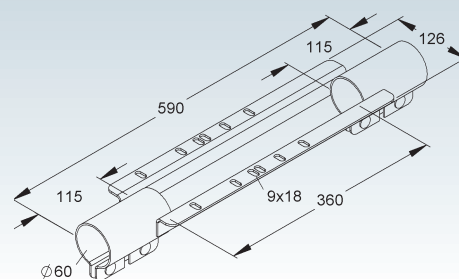
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Mounting Support

	Model No.	Length L	Dia-meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm	mm			
F	MIMTB 60/360 F	360	60	907687	238,96	1 pc.
E3	MIMTB 60/360 E3	360	60	908752	219,03	1 pc.

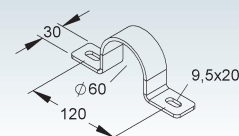
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Conduit Clamp

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIRS 60 F	60	907946	23,72	20 pcs.
E3	MIRS 60 E3	60	908929	21,70	20 pcs.

60

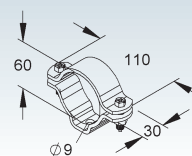


Screw Distance Clamp

heavy

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	SASS 60 F	60	907960	31,50	20 pcs.
E3	SASS 60 E3	60	081899	28,83	20 pcs.

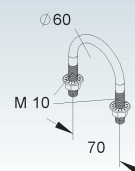
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Round Steel Bracket

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
		mm			
F	MIRB 60 F	60	907984	13,31	20 pcs.
E3	MIRB 60 E3	60	908943	13,39	20 pcs.

60

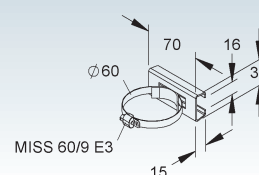


Mounting Profile

incl. 1 screw clamp

	Model No.	Dia-meter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
		mm			
F	MIMS 60 F	60	908004	8,39	1 pc.
E3	MIMS 60 E3	60	908967	7,59	1 pc.

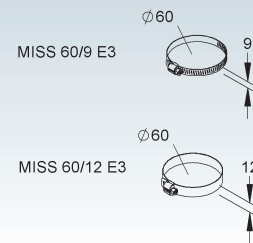
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Worm Thread Clamp

Model No.	Dia- meter	Height H	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
	mm	mm			
E3 MISS 60/9 E3	60	9	908981	2,09	50 pcs.
E3 MISS 60/12 E3	60	12	926503	3,34	25 pcs.

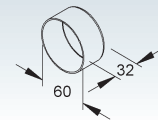
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Protective Cap

Model No.	Dia- meter	Colour	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
	mm				
K10 SKMI 60	60	yellow	908028	2	50 pcs.

60

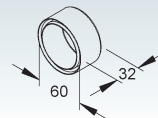


The end caps must be arranged in personal danger areas!

Protective Ring

Model No.	Dia- meter	Colour	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
	mm				
K03 SKMIR 60	60	yellow	908042	1,95	50 pcs.

60



The protective rings must be arranged in personal danger areas!

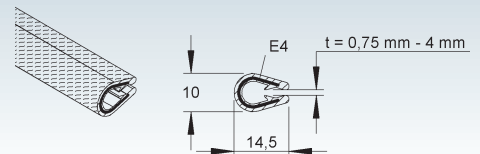
Edge Protection Strip

with steel clamping band

Model No.	Colour	Section	EAN code	Weight in kg per 100 m	Smallest packaging unit
		mm			
K10 RKBA 10	black	0,75-4	206100	15	10 m

60

-25



for protecting cut edges for plate thicknesses from 0,75 mm to 4,0 mm

The edge protection strip must be arranged in personal danger areas!

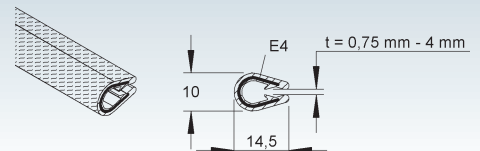
Edge Protection Strip

with steel clamping band

Model No.	Colour	Section	EAN code	Weight in kg per 100 m	Smallest packaging unit
		mm			
K10 RKBA 10 E4	black	0,75-4	729050	15	10 m

60

-25



for protecting cut edges for plate thicknesses from 0,75 mm to 4,0 mm

The edge protection strip must be arranged in personal danger areas!

Warning Sign

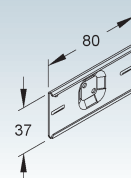
self-adhesive

Model No.	Height H	Width B	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	mm	mm			
MIWZ 105	105	52	922369	0,1	1 pc.

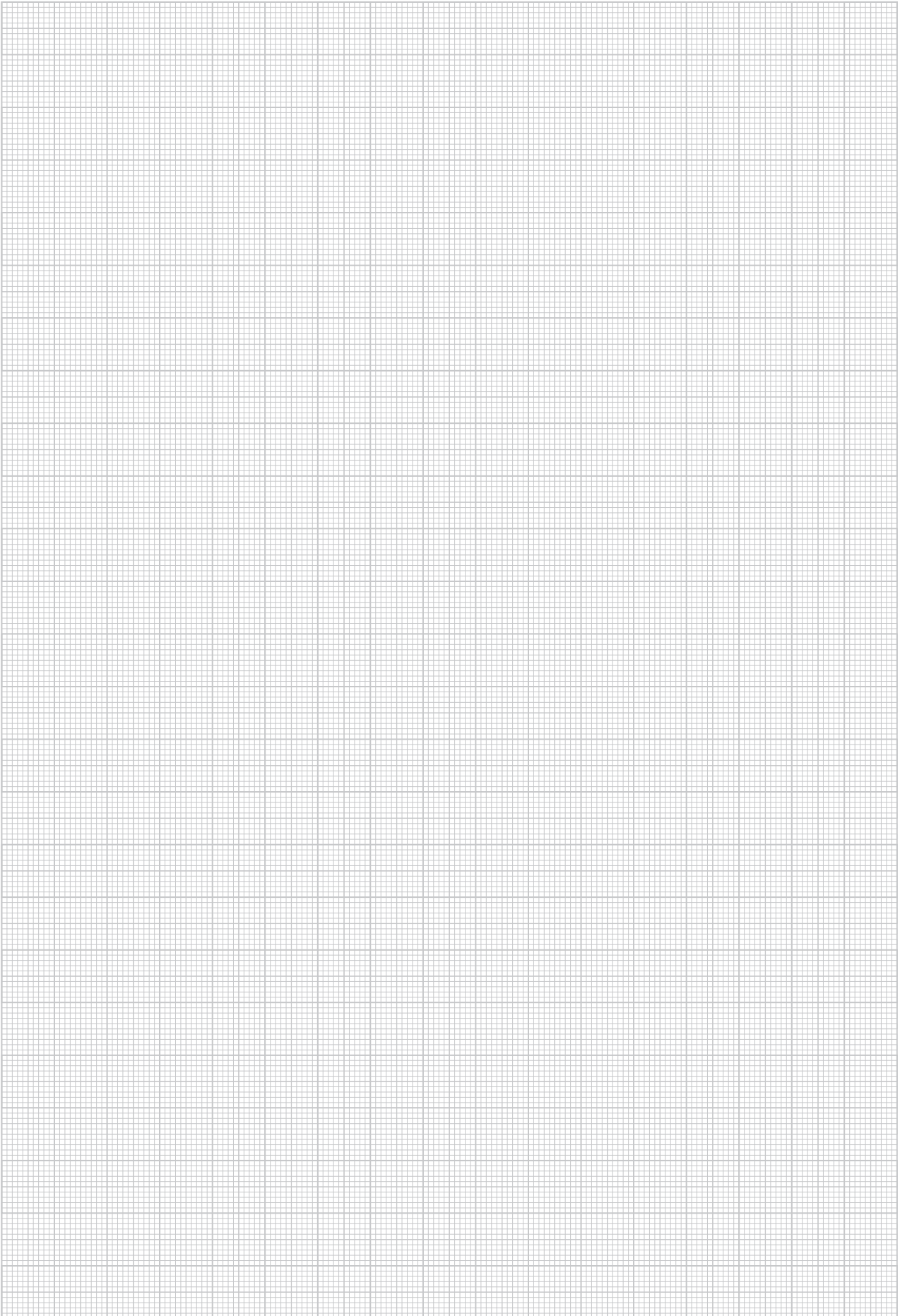


Labelling Plate

Model No.	EAN code	Weight in kg per 100 pcs.	Smallest packaging unit
E3 MIKS 80X37 E3	922963	2,7	20 pcs.



NOTES



NIEDAX GENERAL TERMS OF SALE AND DELIVERY

I. GENERAL PROVISIONS

1. The following terms of sale and delivery are valid for every contract entered into by the Buyer and Niedax regarding delivered goods. They are valid for all future businesses even if they have not been expressly agreed upon again. Deviating purchasing terms of the buyer which are not expressly accepted by us, are not valid for Niedax. That applies also if Niedax has not expressly rejected them. The following terms are valid also if Niedax has executed the Buyer's order without objections while knowing of his adverse or different purchase terms. Sales to private, i.e. non-business customers are not made.
2. All agreements between the Buyer and Niedax regarding the execution of the sales contracts are contained by writing in the contracts.
3. If particular provisions are legally invalid, the whole contract shall remain validity regarding in the remaining parts, except for those cases where adherence to the contract would be unacceptable for at least one contractual party.

II. PRICES AND TERMS OF PAYMENT

1. The prices indicated are net, ex works, excluding packing, the respective VAT if applicable has to be added on top.
2. Prices apply without packing costs for orders up to Euro 600 net (not including VAT). In the case of orders greater than Euro 600 net (not including VAT), we deliver free of charge to the next goods station, including packing, for sealed collection in one consignment. Haulage at the place of reception is at the expense of the customer.
3. An additional charge of Euro 10 net (not including VAT) per order is levied on minimum orders of a value of less than Euro 100 net (small orders, not including VAT). The minimum-sized packing or packing drums are made to suit requirement and are only sold in complete packing units. A surcharge of Euro 5 net (not including VAT) to cover expenses is levied per unit (packing or packing drum) for orders that deviate from the standard packing unit sizes.
4. Delivery in parts is permitted if economically reasonable for the Buyer.
5. If deliveries are to be made to construction sites, the costs for freight / transportation will be advanced by Niedax und will be invoiced to the Buyer if no freight-free delivery is applicable or had been agreed.
6. If not otherwise agreed, all payments have to be made at the latest 10 days after invoicing to allow a three per cent discount, 30 days after invoicing to allow a two per cent discount and 45 days after invoicing net without deductions. This assumes that our invoice has not been dispatched before delivery of the goods; if that may be the case as an exception, the periods for payment shall be calculated on the day of delivery.
7. If the Buyer fails to fulfil his obligations to pay, e.g. does not honour a cheque or a bill payable or ceases his payments, or when circumstances become known that put his creditworthiness into question, then the entire residual debt shall become due, even if invoices exist that have a later maturity date or other agreements have been made regarding extension of the term of payment. In this case we shall not be obliged to make further deliveries unless the customer offers advanced payment before delivery. In the event that the customer does not offer cash payment, then we shall be entitled to claim damages for non-performance.
8. The Buyer can only set off against claims which are undisputed, accepted or legally ascertained.

III. DELIVERY TIMES, DELAY

1. Compliance with set periods for deliveries presupposes the punctual submission of all the necessary documents and other obligations that are to be supplied by the ordering party. If these preconditions are not promptly satisfied, then the periods of time shall be increased accordingly; this shall not apply if Niedax is responsible for the delay.
2. In case Niedax delays performance, the ordering party shall be entitled to demand damages limited to the foreseeable, typically occurring damage, except if the delay results from a deliberate or grossly negligent breach of contract or in case of fatal or bodily injury or injury to health, with Niedax having to take responsibility for respective acts committed by representatives and agents.
3. If the Buyer can prove damages resulting from the delay in delivery, he is entitled to claim compensation of 0.3 % for each full week of delay, but not more than a total of 15 % of the price of the amount of delivery that could not be put to appropriate use because of the delay.
4. In case the dispatch or delivery are delayed at the request of the ordering party by more than a month after notification of readiness to deliver, it shall be possible to invoice the ordering party for storage for each month commenced at a rate of 0.5 %, but not more than a total of 5 %, of the price of the objects to be delivered. The contract parties remain free to prove higher or lower storage costs.
5. If the delivery times are not observed as a consequence of force majeure, e.g., mobilization, war, insurrection, or similar events like strikes or lock-outs, then the periods of time shall be extended accordingly.

IV. PASSING OF RISK, RECEIPT, TAKING BACK

1. The risk, including for carriage paid delivery, is passed to the ordering party as follows:
 - a) In the case of deliveries without mounting or installation, when they are handed over to the transport agent or to the ordering party in case of collection by themselves. At the request and expense of the ordering party deliveries will be insured by Niedax against the usual transport risks;
 - b) In case of deliveries including mounting or installation the passing of risk is on the day of acceptance within the ordering party's premises, or, if agreed, after a faultless test operation.
2. If the ordering party is responsible for delays in dispatch, delivery, the commencement or execution of the mounting or installation, acceptance at the ordering party's premises or the trial operation, or if the ordering party delays acceptance for any other reason, then the risk shall be transferred to the ordering party.
3. The ordering party may not refuse to accept deliveries for the reason of slight defects. The recipient is responsible for the proper unloading of the goods at the place of receipt.
4. Returns of goods have to be coordinated with the concerned person dealing with the case. Articles which are especially produced and not fit for warehousing are exempt from taking back.

V. RETENTION OF TITLE

1. The delivered goods shall remain our property until all our claims arising from the business relationship have been settled. The delivered goods may only be sold in the due course of business either for cash payment or by transferring our reservation of ownership to the buyer. They may not be pledged nor assigned nor transferred by the customer.
2. The Buyer may sell or utilize the goods subject to retention of title for proper business purposes, unless he is in delay of payment. The customer herewith assigns to us all his future claims from release of the reserved goods. This assignment shall apply both for the full value and for the partial value corresponding to our coownership share of the goods sold. The assignment shall remain valid until all our claims have been paid in full. We hereby accept this assignment. The thus originated sole or partial ownership will be kept by the Buyer on our behalf.
3. We authorize the Buyer revocably to collect payments regarding the assigned claims - as long as he continues to fulfil his obligations towards us and does not become bankrupt. The sums received shall be transferred to us immediately when our claims are due. This authorization can be revoked anytime if the Buyer does not adhere to his payment obligations. The Buyer is not entitled to assign the claims to other parties, e.g. in a system of debt collection by factoring, except if at the same time the factor accepts the obligation to pay the consideration directly to us as long as claims by us exist against the Buyer.
4. If the goods are combined or merged with other items, we gain co-ownership regarding the new item, corresponding to the value of our reserved goods in relation to the value of the other goods at the time of processing. If the goods subject to retention of title are processed by the customer, each processing takes place for us.
5. In the case of neglect of duty by the Buyer, esp. delay of payment, we are entitled to the retraction of the goods subject to retention of title as well as to the withdrawal from the affected deal. The performance of retraction or of claiming the retention of the goods only means a withdrawal if we declare it expressly to be.
6. The customer shall immediately inform us of any third-party judicial enforcement measures against the reserved goods or claims assigned to us in advance. Such information must be accompanied by the documentation required for intervention.

NIEDAX GENERAL TERMS OF SALE AND DELIVERY

VI. WARRANTY FOR MATERIAL DEFECTS AND LIABILITY

1. Claims for defects can only be made if the Buyer adhered to his obligation under § 377 HGB to properly examine and if necessary notify Niedax of defects.
2. In case of a defect, the Buyer has to give Niedax the opportunity for supplementary performance within reasonable time. The supplementary performance is deemed failed after unsuccessful attempts, if not more attempts are appropriate and just and reasonable for the buyer, regarding the contractual item. If the supplementary performance has failed, the Buyer is entitled – notwithstanding possible claims regarding damages – to withdraw from the contract or to reduce the remuneration. Damages resulting from defects cannot be claimed before the supplementary performance has been attempted twice (at least) unsuccessfully, except regarding damages under Clause VIII.
3. Claims on the part of the Buyer for expenses necessary for the purpose of remedying defects, will be borne by Niedax assumed that they are necessary and are not increased because the object of delivery has afterwards been taken to a place other than the premises of the ordering party, unless such movement complies with its use in accordance with the regulations.
4. Claims for only minor deviation from the agreed quality cannot be accepted. We must therefore reject claims for only minor impairment to fitness for use, or for natural wear and tear, or for damage arising after the transfer of risk as a result of faulty or negligent handling, excessive stress, unsuitable operating materials, defective building works, unsuitable building ground, or occurring as a result of other external influences that have not been presumed according to the contract. In case the ordering party or a third party carries out inexpert repairs or changes, there no right for claims will be granted by Niedax for defects caused by these works or the consequences of them.
5. We are liable according to the law for damages to life, body and health that result from an intentional or negligent neglect of duty committed by us, our representatives or agents, as well as for damages that are fall within product liability laws. We are liable for damages not included in the first sentence which result from intentional or grossly negligent breaches of contract as well as in case of fraudulent concealment of a defect committed by us, our representatives or agents, following the legal provisions. In those last mentioned cases however our liability is limited to the foreseeable, typically occurring damage, except when we or our representatives or agents have acted intentionally.
6. We are liable for damages that are caused by us by slight negligent neglect of contractual obligations whose fulfillment is indispensable for the contractual performance and in whose compliance the Buyer fundamentally and justifiably trusts (fundamental contractual obligations). Our liability is however limited to damages that are typically related to the contract and foreseeable.
7. In accordance with § 478 BGB (Rückgriff des Unternehmers [Contractor's Recourse, § 478 BGB]), the ordering party's rights of recourse against Niedax only exist in so far as the ordering party has made no agreements with its supplier that extend beyond the legal claims for defects.
8. Claims for material defects are subject to a limitation period of 12 months. This restriction shall not apply in so far as the law prescribes longer periods in accordance with §§ 438, Par. 1 No. 2 (Bauwerke und Sachen für Bauwerke [Buildings and Items for Building]), 479 Par. 1 (Rückgriffsanspruch [Right of Recourse]) and 634a Par. 1 No. 2 (Baumängel [Building Defects]) of the BGB [German Civil Code], and in cases of injury to life, health or bodily injury, in case of an intentional or gross carelessness on the part of Niedax, and in case of fraudulent concealment of a defect.

VII. IMPOSSIBILITY; ADAPTATION OF CONTRACTS

1. If delivery is impossible, the ordering party shall be entitled to demand compensation, unless Niedax is not responsible for the impossibility. The claim for damages on the part of the ordering party is, however, limited to 15 % of the value of that part of the delivery that cannot be put into appropriate operation due to the impossibility of delivery. This limitation shall not apply in so far as there is absolute liability in cases of intent or gross negligence or in the event of fatal or bodily injury or injury to health; this is not associated with any change in the burden of proof to the disadvantage of the ordering party. The right of the ordering party to withdraw from the contract remains unaffected.
2. If unforeseeable events in the sense of Item III No. 5 significantly change the economic importance or content of the delivery or have a significant effect on the working activities of Niedax, the contract shall be reasonably adapted respecting good faith. If this is not economically justifiable, Niedax shall have the right to withdraw from the contract. If he wishes to avail himself of this right to withdraw from the contract, then he shall undertake to inform the ordering party of the fact immediately, having determined the extent and consequences of the event; this shall also apply if an extension of the delivery time has first been agreed with the ordering party.

VIII. FURTHER CLAIMS TO DAMAGES

1. Claims to damages and expenses by the Buyer (hereafter: damages), whatsoever the legal reason, especially resulting from a neglect of contractual obligations or from an unlawful act, are excluded.
2. The aforesaid exclusion is not valid insofar as there is mandatory liability by law, e.g. under product liability law, in cases of intentional or grossly negligent acts, damages to life, body and health and neglect of fundamental contractual obligations. Our liability regarding the neglect of fundamental contractual obligations is however limited to damages typically related to the contract and foreseeable, except with intentional or gross negligence and with damages to life, injuries, impacts on health. This is not associated with any change in the burden of proof to the disadvantage of the ordering party.
3. The Buyer's claims to damages mentioned here in Art. VIII expire after the end of the limitation period according material defects under Article VI paragraph 8. In case of titles to claim according to the Product Liability Act the legal rules regarding the limitation period will apply.
4. The 12 months limitation period also applies to measures to remedy the damages, especially to product recalls.

IX. PLACE OF PERFORMANCE, OF JURISDICTION AND APPLICABLE LAW

1. Place of performance of deliveries and payments is Linz/Rhine. The sole place of jurisdiction for all disputes arising directly or indirectly out of sales contracts between Niedax and the Buyer (including action on a dishonored cheque or bill payable) shall be governed by the place of performance, too. Niedax shall, however, also be entitled to bring an action at the domicile of the ordering party.
2. The legal relationships between the contractual parties shall be governed exclusively by German substantive law, to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

X. SETTLEMENT OF CONSUMER CLAIMS

Companies of NIEDAX GROUP do not enter into contractual relationships with consumers in accordance to § 310 fig. 3 BGB as our products are exclusively delivered to authorized distributors and commercial customers.

For this reason we are not participating in any settlement procedure for claims from consumers in any Consumer Arbitration Centre. However, in accordance to the German law on alternative settlements of consumer claims we are obliged to inform about the relevant authority for settlement of consumer claims (Consumer Arbitration Centre):

Allgemeine Verbraucherschlichtungsstelle des Zentrums für Schlichtung e.V.
Straßburger Str. 8
77694 Kehl
Internet: www.verbraucher-schlichter.de

As of 09/2020



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