



GROUP 4

EMC shielding





Shield clamps without foot

FEATURES

- Suitable for a wide range of cable diameters from 1,5 to 22 mm
- Ideal adherence to cable shielding
- **Increased wings length for easier cable insertion**
- Constant pressure on the cable sheath without having to run tests and checks
- High vibration resistance



The MSS2 shield clamps enable the cable shield to be grounded easily and effectively. The MSS2 shield clamps can be fixed with screws or rivets.

Material: spring steel, zinc plated

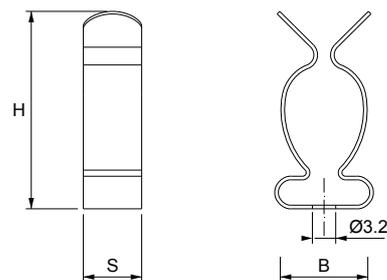
RELATED PRODUCTS

- MB DIN rail bases (page 130)

Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
			B	H	S	
MSS2 1.5-3	1734010210	1,5 - 3	11	13,5	8	50
MSS2 3-6	1734010220	3 - 6	11	16	8	50
MSS2 7-9	1734010230	7 - 9	11	18,5	8	50
MSS2 9-12	1734010240	9 - 12	12	22	8	50
MSS2 11-17	1734010250	11 - 17	13,5	27	8	50
MSS2 18-22	1734010260	18 - 22	22	36,5	8	50
MSS2 22-30	1734010270	22 - 30	22	43	12	10



Dimensions (mm)





FEATURES

- Suitable for a wide range of cable diameters from 30 to 74 mm
- Ideal adherence to cable shielding
- Possibility to mount the springs easily, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks
- High vibration resistance, maintenance free



The MSS shield clamps enable the cable shield to be grounded easily and effectively. The MSS shield clamps can be fixed with screws or rivets.

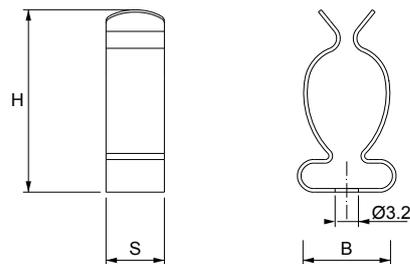
Material: spring steel, zinc plated

RELATED PRODUCTS

- MB DIN rail bases (page 130)

Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
			B	H	S	
MSS 30-37	1734010080	30 - 37	40	55	12	10
MSS 38-48	1734010090	38 - 48	40	64	12	
MSS 50-60	1734010095	50 - 60	50	74,5	12	
MSS 62-74	1734010100	62 - 74	62	88	12	

Dimensions (mm)





MSS3



Shield clamps without base

FEATURES

- Suitable for a wide range of cable diameters from 1,5 to 10 mm
- Side by side mounting possible
- Ideal contact to cable shielding
- Easy cable insertion
- Constant pressure on the cable sheath without having to run tests and checks
- High vibration resistance



The MSS3 shield clamps enable the cable shield to be grounded easily and effectively. Thanks to the particular design, they allow an easy cable insertion by leveraging on the longer side. They also guarantee maximum space saving and side-by-side mounting even with the cable inserted.

Material: spring steel, zinc plated

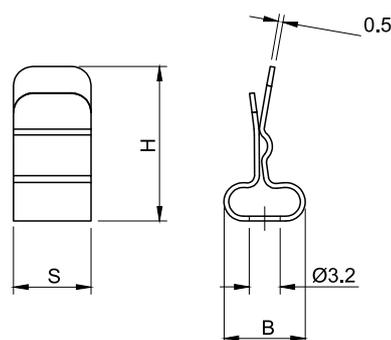
RELATED PRODUCTS

- MB DIN rail bases (page 130)

	Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
				B	H	S	
NEW	MSS3 1,5-3	1734010280	1,5 - 3	8,4	16,1	8	50
	MSS3 3-7	1734010281	3 - 7	8,4	21,9	8	50
	MSS3 6-10	1734010285	6 - 10	8,5	24,7	8	50



Dimensions (mm)





FEATURES

- Suitable for a wide range of cable diameters from 3 to 19 mm
- Snap-in assembly, no need to use tools
- Ideal adherence to cable shielding
- Constant pressure on the cable sheath without having to run tests and checks
- High vibration resistance, maintenance free



The MSL shield clamps enable the cable shield to be grounded easily and effectively. The MSL shield clamps can be fixed with screws or rivets.

Material: spring steel, zinc plated

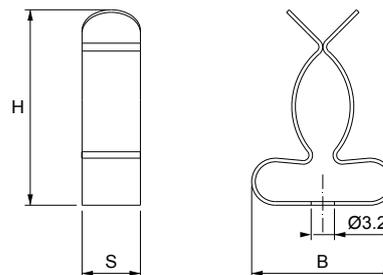
RELATED PRODUCTS

- MB DIN rail bases (page 130)

Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
			B	H	S	
MSL 3-9	1734010310	3 - 9	16,5	20,6	8	50
NEW MSLB 3-12	1734010330	3 - 12	16	15,9	8	50
MSL 10-19	1734010320	10 - 19	19,5	27	8	50



Dimensions (mm)





Screw fixing shield clamps

FEATURES

- Suitable for a cable range from 1,5 to 12 mm diameter
- Useful in small places
- Screw fixing hole M4
- Constant pressure on the cable sheath

The MSM and MSML shield clamps enable the cable shield to be grounded easily and effectively.

The shield clamp can be fixed with a M4 screw or rivet.

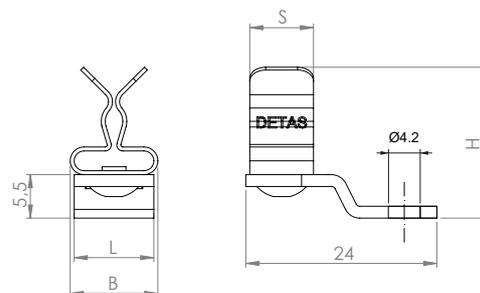
Material: spring steel, zinc plated



Model	Code	Clamping range (mm)	Dimensions (mm)				Pcs (/pack)
			L	B	H	S	
MSM 1.5-3	1734030110	1,5 - 3	10	11	19	11	50
MSM 3-6	1734030120	3 - 6	10	11	21,5	11	
MSM 7-9	1734030130	7 - 9	10	11	24	11	
MSM 9-12	1734030140	9 - 12	10	12	27,5	12	
MSML 3-9	1734030180	3 - 9	10	16,5	22	8	



Dimensions (mm)





FEATURES

- Suitable for a range of cables from 1,5 to 30 mm
- Shield grounding and strain relief in the same device
- Double cable tie
- Snap-in assembly, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks
- Available with hole M5

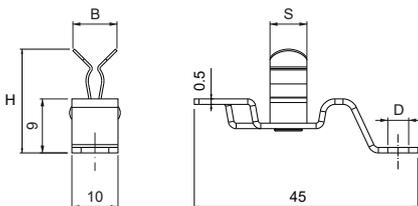


The MSA shield clamps enable the cable shield to be grounded easily and effectively. They secure the anti-tear function on the cable by fixing it with one or two cable ties. The shield clamp can be fixed with a M4 screw. The strain relief function complies with EN 62444 standards.

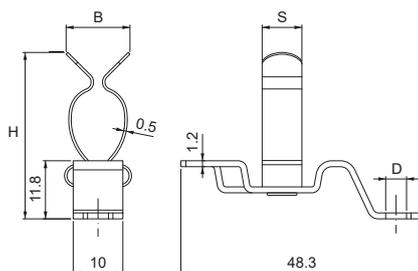
Material: spring steel, zinc plated

Dimensions (mm)

Thickness 0.5 version



Thickness 1,2 version



Model	Code	Clamping range (mm)	Ø D (mm)	Thickness (mm)	Dimensions (mm)			Pcs x conf.
					B	H	S	
MSA 1.5-3	1734030010	1,5 - 3	4	0,5	11	17	8	50
	1734030011		5	1,2				
MSA 3-6	1734030020	3 - 6	4	0,5	11	20	8	
	1734030021		5	1,2				
MSA 7-9	1734030030	7 - 9	4	1,2	11	25	8	
	1734030031		5	1,2				
MSA 9-12	1734030040	9 - 12	4	1,2	13,5	34	8	
	1734030041		5	1,2				
MSA 11-17	1734030050	11 - 17	4	0,5	12	31	8	
	1734030052		4	1,2				
	1734030051		5	1,2				
MSA 18-22	1734030060	18 - 22	4	1,2	22	43	8	
	1734030061		5	1,2				
MSA 22-30	1734030070	22 - 30	4	1,2	22,5	50	12	
	1734030071		5	1,2				
MSAL 3-9	1734030080	3 - 9	4	1,2	16,5	27	8	
	1734030081		5	1,2				
MSAL 10-19	1734030090	10 - 19	4	1,2	19,5	30,5	8	
	1734030091		5	1,2				

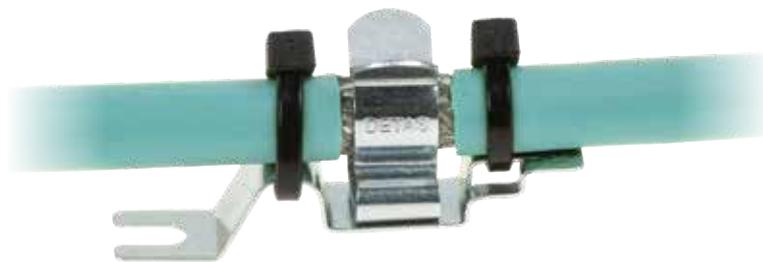




Shield clamps with screw fixing with double cable tie secure

FEATURES

- Suitable for a range of cables from 1,5 to 30 mm
- Possibility of obtaining shield grounding and anti-tear functions with a single device
- Double cable tie
- Snap-in assembly, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks



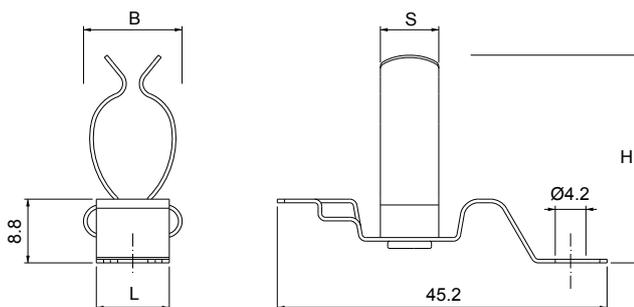
The MSE shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function on the cable by fixing it with one or two cable ties. The shield clamp can be fixed with a M4 screw.

They secure the strain relief function in compliance with EN 62444 by fixing the cable it with one or two cable ties.

Material: spring steel, zinc plated

Model	Code	Clamping range (mm)	Dimensions (mm)				Pcs (/pack)
			L	B	H	S	
MSE 1.5-3	1734050010	1,5 - 3	10	11	15,5	8	50
MSE 3-6	1734050020	3 - 6	10	11	17,5	8	
MSE 7-9	1734050030	7 - 9	10	11	21	8	
MSE 9-12	1734050040	9 - 12	10	12	22,5	8	
MSE 11-17	1734050050	11 - 17	10	13,5	29	8	
MSE 18-22	1734050060	18-22	10	22	37	8	
MSE 22-30	1734050070	22-30	10	22,5	46,5	12	
MSEL 3-9	1734050080	3 - 9	10	16,5	24	8	
MSEL 10-19	1734050090	10 - 19	10	19,5	30,5	8	

Dimensions (mm)





MSG

Shield clamps for DIN TS15 Rail

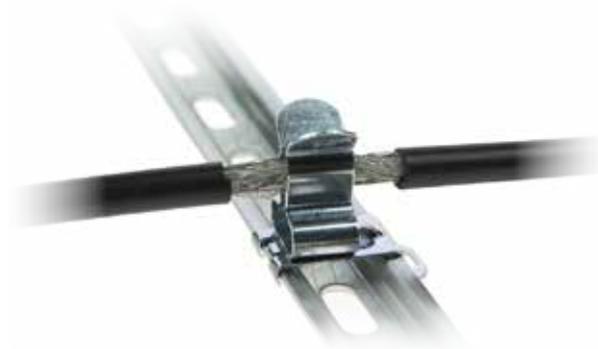
FEATURES

- Suitable for a cable range from 1,5 to 9 mm diameter
- Shield grounding and strain relief functions with a unique device
- Easy and fast installation without tools
- Constant pressure on the cable sheath without having to run tests and checks

The MSG shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function on the cable by fixing it with a tie.

The MSD shield clamps can be used on TS15 DIN rails.

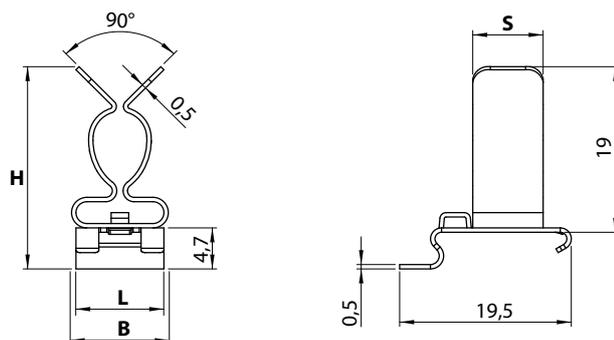
Material: spring steel, zinc plated



Model	Code	Clamping range (mm)	Dimensions (mm) H	Pcs (/pack)
MSG 1.5-3	1734060110	1,5 - 3	18,3	50
MSG 3-6	1734060120	3 - 6	21	
MSG 7-9	1734060130	7 - 9	23,2	



Dimensions (mm)

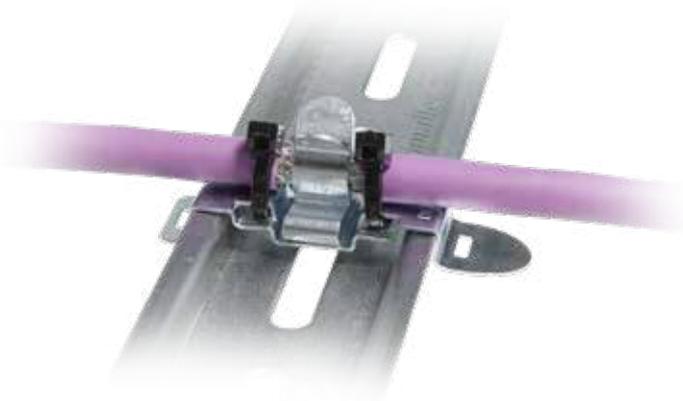




Shield clamps for DIN TS35 rails with double cable tie

FEATURES

- Suitable for a wide range of cables from 1,5 to 22 mm
- Snap-in assembly, no need to use tools
- Double cable tie
- Possibility of obtaining shield grounding and strain relief functions with a single device
- Ideal adherence to cable shielding
- Constant pressure on the cable sheath without having to run tests and checks



The MSD2 shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function on the cable by fixing it with one or two cable ties. The strain relief function complies with EN 62444 standards.

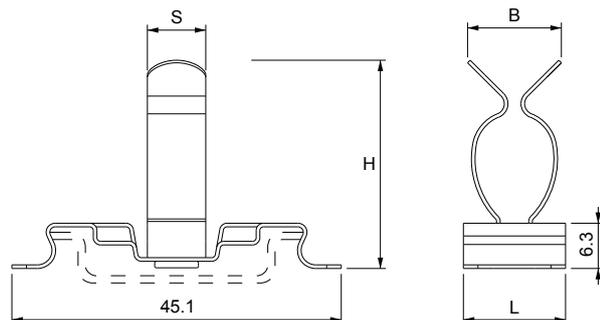
The MSD 2 shield clamps can be used on TS35 DIN rails.

Material: spring steel, zinc plated



Model	Code	Clamping range (mm)	Dimensions (mm)				Pcs (/pack)
			L	B	H	S	
MSD2 1.5-3	1734021010	1,5 - 3	14	11	15	8	50
MSD2 3-6	1734021020	3 - 6	14	11	17,5	8	
MSD2 7-9	1734021030	7 - 9	14	11	20	8	
MSD2 9-12	1734021040	9 - 12	14	12	23	8	
MSD2 11-17	1734021050	7 - 11	14	13,5	29	8	
MSD2 18-22	1734021060	18 - 22	14	22	38	8	
MSD2L 3-9	1734021080	3 - 9	14	16,5	22	8	
NEW MSD2L 3-12	1734021081	3 - 12	14	16,5	22	8	
MSD2L 10-19	1734021090	10 - 19	14	19,5	28,5	8	

Dimensions (mm)





MSD

Shield clamps for DIN TS35 rails with single cable tie

FEATURES

- Suitable for a wide range of cables from 22 to 74 mm
- Snap-in assembly, no need to use tools
- Available with two bases: 14 and 22 mm
- High vibration resistance
- Shield grounding and strain relief function with the same device
- Ideal contact to cable shielding
- Constant pressure on the cable sheath without having to run tests and checks

The MSD shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function on the cable fixing a cable tie in compliance with EN62444.

The MSD shield clamps are used on TS35 DIN rails.

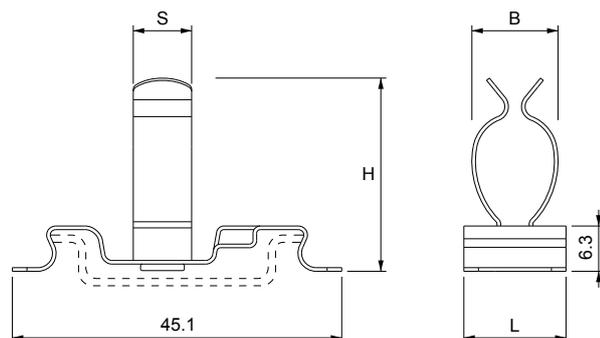
Material: spring steel, zinc plated



Model	Code	Clamping range (mm)	Dimensions (mm)				Pcs (/pack)
			L	B	H	S	
MSD 22-30	1734020070	22 - 30	22	22,5	45	12	
MSD 30-37	1734020080	30 - 37	22	31	58	12	
MSD 38-48	1734020090	38 - 48	22	40	68,5	12	50
MSD 50-60	1734021095	50-60	22	50	75	12	
MSD 62-74	1734021098	62-74	22	62	89	12	



Dimensions (mm)



Double shield clamps for DIN TS35 rails

FEATURES

- Suitable for a range of cables from 1,5 to 7 mm
- Snap-in assembly, no need to use tools
- Space savings compared to conventional models
- Shield grounding and strain relief function with the same device
- Ideal adherence to cable shielding
- Constant pressure on the cable sheath without having to run tests and checks

The MSP/MSPC shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function on the cable by fixing it with a cable tie.

The strain relief function complies with EN 62444 standards.

The special construction shape allows side-by-side mounting on the TS35 DIN rails with a significant space saving in the cabinet.

Material: spring steel, zinc plated



	Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
				L	B	H	
	MSP 1.5 - 3*	1734010410	1,5 - 3	52,4	20	15,5	50
NEW	MSP 1.5 - 3 V2	1734010411	1,5 - 3	52,4	20	16,5	
	MSP 3 - 6*	1734010420	3 - 6	52,4	20	18	
NEW	MSPC 3 - 7	1734010421	3 - 7	52,4	24	24	
	MSPC 6 - 10	1734010425	6 - 10	52,4	24	32	

*Not available for the german market



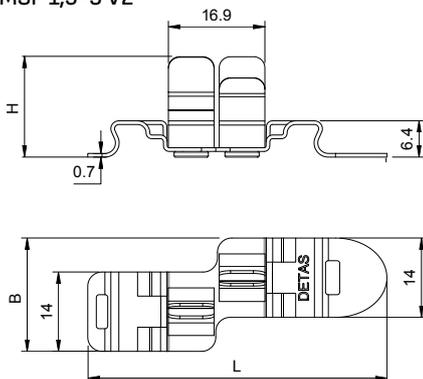
MSPC 3 - 7



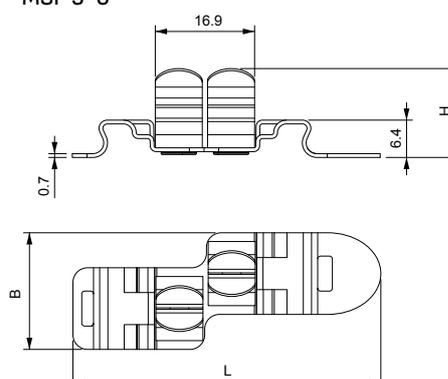
MSP 3 - 6

Dimensions (mm)

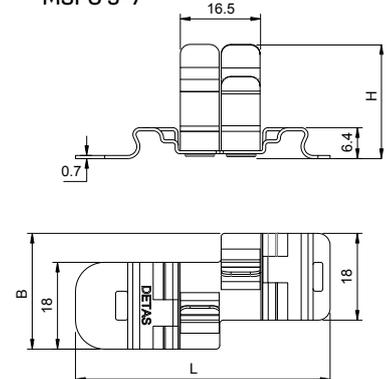
MSP 1,5-3 V2



MSP 3-6*



MSPC 3-7





MSB

Shield clamps for 10 x 3 mm bar with double cable tie

FEATURES

- Suitable for cable diameter ranges from 1,5 to 30 mm
- Shield grounding and strain relief function with the same device
- Double cable tie
- Snap-in assembly, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks



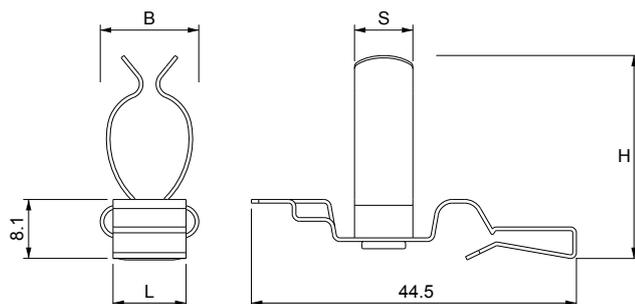
The MSB shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function with two cable ties. The MSB shield clamps can be used on 10x3 bars.

The strain relief function complies with EN 62444 standard.

Material: spring steel, zinc plated

Model	Code	Clamping range (mm)	Dimensions (mm)				Pcs (/pack)
			L	B	H	S	
MSB 1.5-3	1734040010	1,5 - 3	10	11	15	8	50
MSB 3-6	1734040020	3 - 6	10	11	17	8	
MSB 7-9	1734040030	7 - 9	10	11	20	8	
MSB 9-12	1734040040	9 - 12	10	12	22	8	
MSB 11-17	1734040050	11 - 17	10	13,5	28	8	
MSB 18-22	1734040060	18 - 22	10	22	37	8	
MSB 22-30	1734040070	22 - 30	10	22,5	46,5	12	
MSBL 3-9	1734040080	3 - 9	10	16,5	23,5	8	
MSBL 10-19	1734040090	10 - 19	10	19,5	30	8	

Dimensions (mm)





Shield clamps for 10 x 3 mm bar

FEATURES

- Suitable for cable diameter ranges from 1,5 to 30 mm
- Shield grounding and strain relief function with the same device
- Snap-in assembly, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks



The MSR shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function on the cable by fixing it with a cable tie.

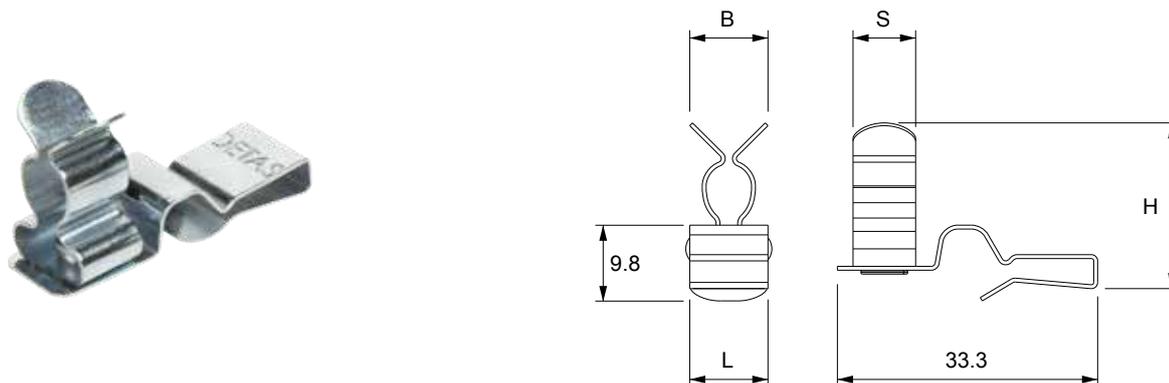
The MSR shield clamps can be used on 10x3 bars.

The strain relief function complies with EN 62444 standard.

Material: spring steel, zinc plated

Model	Code	Clamping range (mm)	Dimensions (mm)				Pcs (/pack)
			L	B	H	S	
MSR 1.5-3	1734040310	1,5 - 3	10	11	16,5	8	50
MSR 3-6	1734040320	3 - 6	10	11	19	8	
MSR 7-9	1734040330	7 - 9	10	11	21,5	8	
MSR 9-12	1734040340	9 - 12	10	12	24,5	8	
MSR 11-17	1734040350	11 - 17	10	13,5	30	8	
MSR 18-22	1734040360	18 - 22	10	22	39,5	8	
MSR 22-30	1734040370	22 - 30	10	22,5	46,5	12	
MSRL 3-12	1734040381	3 - 12	10	12	19	8	
MSRL 10-19	1734040390	10 - 19	10	10	30	8	

Dimensions (mm)





MSRP/MSRC



Shield clamps for 10 x 3 mm busbar

FEATURES

- Suitable for cable diameter ranges from 1,5 to 9 mm
- Shield grounding and strain relief functions in a single device
- Snap-in assembly, no need to use tools
- Constant pressure of the clamp on the cable sheath without having to run tests and checks

The MSRP/MSRC shield clamps allow to easily and effectively earthing the cable shielding and guarantee the strain relief function with a cable tie.

The special construction shape allows side-by-side mounting on a 3x10 busbar, allowing significant space savings on the cabinet.

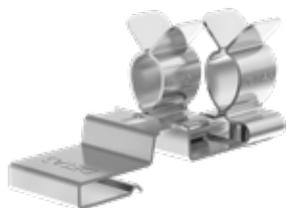
Material: spring steel, zinc plated



MSRP 1.5-3 V2

	Model	Code	Clamping range (mm)	Dimensions (mm) H	Pcs (/pack)
NEW	MSRP 1.5-3 V2	1734040111	1,5 - 3	16,5	50
	MSRP 3-6*	1734040120	3 - 6	19,1	
	MSRP 7-9*	1734040130	7 - 9	21,4	
NEW	MSRC 3-7	1734040121	3 - 7	27,2	
	MSRC 6-10	1734040131	6 - 10	30	

*Not available for the german market



MSRP 3 - 6



MSRC 3 - 7

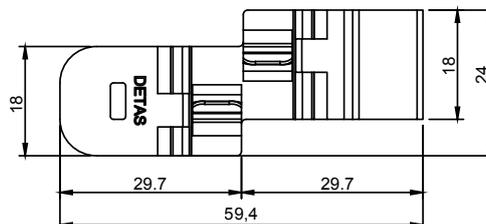
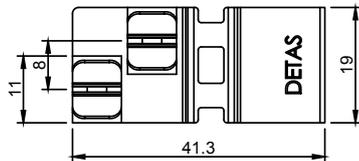
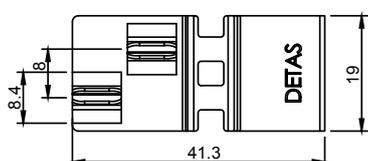
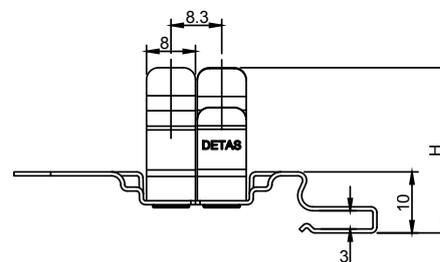
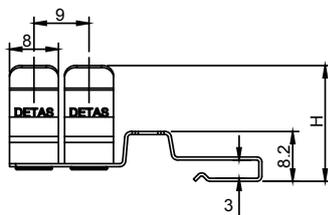
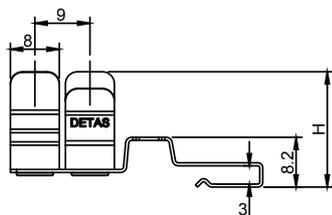


Dimensions (mm)

MSRP 1.5-3 V2

MSRP 3 - 6 / MSRP 7 - 9

MSRC 3 - 7 / MSRC 6 - 10





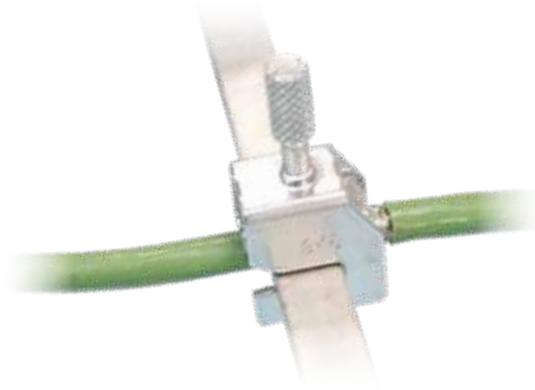
Shield clamps for 10 x 3 mm bar

FEATURES

- Cable ranges from 2 to 35 mm
- Installation on 3x10 busbar
- Snap-in assembly, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks

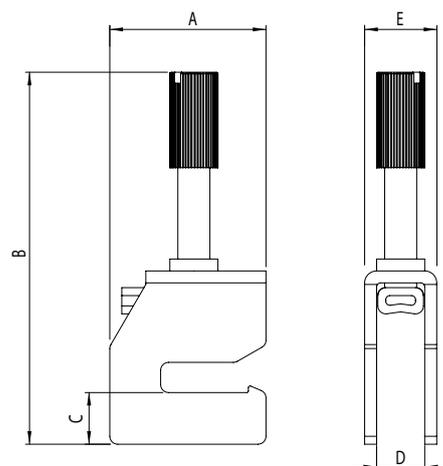
The MSH shield clamps enable the cable shield to be grounded easily and effectively. The MSH shield clamps are used on 10x3 bars and they are secured tightening the M4 or M5 screw which is also making strain relief function.

Material: spring steel, zinc plated



Model	Code	Clamping range (mm)	Dimensions (mm)					Pcs (/pack)
			A	B	C	D	E	
MSH 2-5	1734040405	2 - 5	19,5	47,5	6,5	6,5	9,4	10
MSH 3-8	1734040408	3 - 8	19,5	49,5	6,5	9	12,4	
MSH 3-14	1734040414	3 - 14	19,5	60,6	6,5	14	17,3	
MSH 3-20	1734040420	3 - 20	19,5	75	6,5	21	24	
MSH 20-35	1734040435	20 - 35	20	106,5	6,5	36	40	

Dimensions (mm)





MST

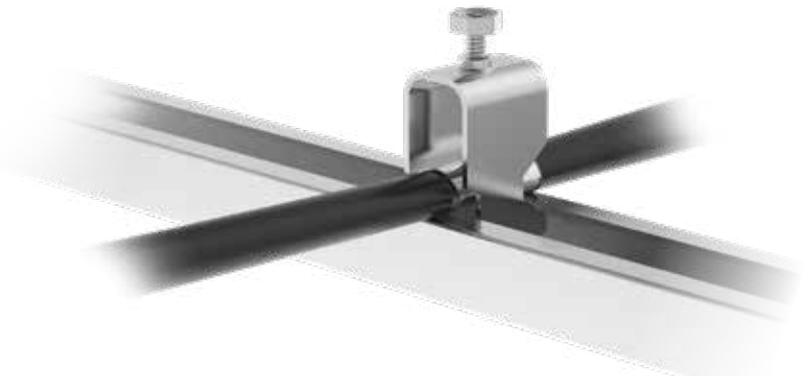
Shield clamp for C 30 mm rail

FEATURES

- Cable ranges from 6 to 42 mm
- Installation on C rail 30 mm
- Snap-in assembly with tightening nut
- Cost effective

The MST shield clamps enable the cable shield to be grounded easily and effectively. The MST shield clamps are used on the C 30 mm rail and they are secured tightening the screw which also ensures the strain relief function.

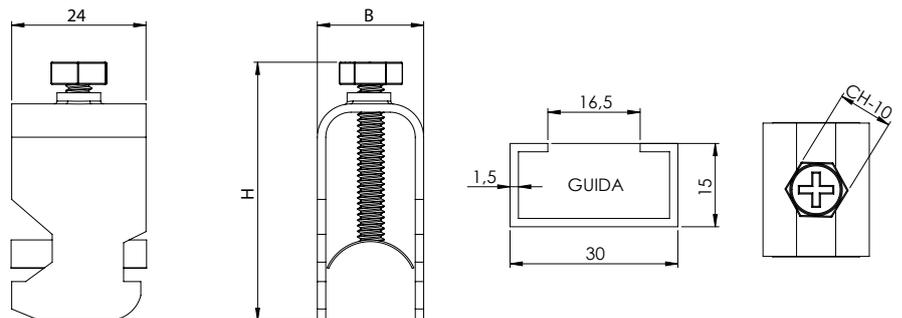
Material: spring steel, zinc plated



Model	Code	Clamping range (mm)	Dimensions (mm)		Pcs (/pack)
			B	H	
MST 6-12	1734040512	6 - 12	21	70	10
MST 12-18	1734040518	12 - 18	23	70	
MST 18-22	1734040522	18 - 22	27	70	
MST 22-30	1734040530	22 - 30	39	85	
MST 30-38	1734040538	30 - 38	45	90	
MST 38-42	1734040542	38 - 42	47	95	



Dimensions (mm)





Multiple EMC shielding



FEATURES

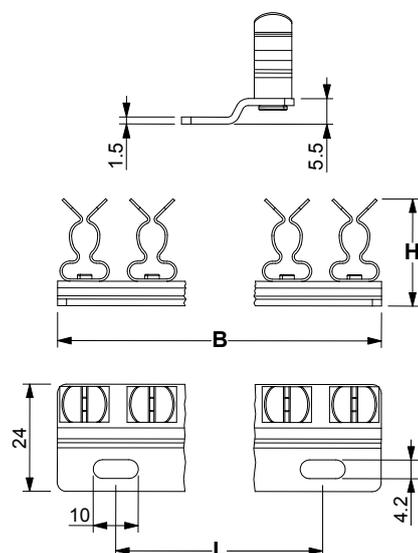
- Cable ranges from 1,5 to 12 mm
- Snap-in assembly, no need to use tools
- Constant pressure on the cable sheath without having to run tests and checks
- Saving installation time and money

The multiple EMC shielding clamps can shorten the mounting time and space of a multitude of single clips.

The base of the clips is fixed with two M4 screws. Custom solutions are welcome.

Material: SS304 stainless steel (base), spring steel, zinc plated (clips)

Dimensions (mm)



Model	Code	Nr. Cables	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
				B	L	H	
MSU 3x 1,5-3	1734030310	3	1,5 - 3	46	30	19,1	1
MSU 3x 3-6	1734030320	3	3 - 6	46	30	21,6	
MSU 3x 7-9	1734030330	3	7 - 9	46	30	24,0	
MSU 3x 9-12	1734030340	3	9 - 12	46	30	27,2	
MSU 4x 1,5-3	1734030410	4	1,5 - 3	61	30	19,1	
MSU 4x 3-6	1734030420	4	3 - 6	61	30	21,6	
MSU 4x 7-9	1734030430	4	7 - 9	61	30	24,0	
MSU 4x 9-12	1734030440	4	9 - 12	61	30	27,2	
MSU 5x 1,5-3	1734030510	5	1,5 - 3	72	46	19,1	
MSU 5x 3-6	1734030520	5	3 - 6	72	46	21,6	
MSU 5x 7-9	1734030530	5	7 - 9	72	46	24,0	
MSU 5x 9-12	1734030540	5	9 - 12	72	46	27,2	
MSU 6x 1,5-3	1734030610	6	1,5 - 3	88	62	19,1	
MSU 6x 3-6	1734030620	6	3 - 6	88	62	21,6	
MSU 6x 7-9	1734030630	6	7 - 9	88	62	24,0	
MSU 6x 9-12	1734030640	6	9 - 12	88	62	27,2	
MSU 7x 1,5-3	1734030710	7	1,5 - 3	104	78	19,1	
MSU 7x 3-6	1734030720	7	3 - 6	104	78	21,6	
MSU 7x 7-9	1734030730	7	7 - 9	104	78	24,0	
MSU 7x 9-12	1734030740	7	9 - 12	104	78	27,2	
MSU 8x 1,5-3	1734030810	8	1,5 - 3	120	94	19,1	
MSU 8x 3-6	1734030820	8	3 - 6	120	94	21,6	
MSU 8x 7-9	1734030830	8	7 - 9	120	94	24,0	
MSU 8x 9-12	1734030840	8	9 - 12	120	94	27,2	
MSU 9x 1,5-3	1734030910	9	1,5 - 3	140	116	19,1	
MSU 9x 3-6	1734030920	9	3 - 6	140	116	21,6	
MSU 9x 7-9	1734030930	9	7 - 9	140	116	24,0	
MSU 9x 9-12	1734030940	9	9 - 12	140	116	27,2	
MSU 10x 1,5-3	1734031010	10	1,5 - 3	150	126	19,1	
MSU 10x 3-6	1734031020	10	3 - 6	150	126	21,6	
MSU 10x 7-9	1734031030	10	7 - 9	150	126	24,0	
MSU 10x 9-12	1734031040	10	9 - 12	150	126	27,2	
MSU 11x 1,5-3	1734031110	11	1,5 - 3	166	140	19,1	
MSU 11x 3-6	1734031120	11	3 - 6	166	140	21,6	
MSU 11x 7-9	1734031130	11	7 - 9	166	140	24,0	
MSU 11x 9-12	1734031140	11	9 - 12	166	140	27,2	
MSU 12x 1,5-3	1734031210	12	1,5 - 3	172	156	19,1	
MSU 12x 3-6	1734031220	12	3 - 6	172	156	21,6	
MSU 12x 7-9	1734031230	12	7 - 9	172	156	24,0	
MSU 12x 9-12	1734031240	12	9 - 12	172	156	27,2	



MSF/MSFD

Spring shield clamps

FEATURES

- Cable ranges from 3 to 32 mm
- MSFD: version with base for TS35 DIN rail
- Constant pressure on the cable sheath without having to run tests and checks

The MSF/MSFD shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function thanks to the spring which maintains constant pressure on the cable braid.

Material: steel with electrolytic nickel plating

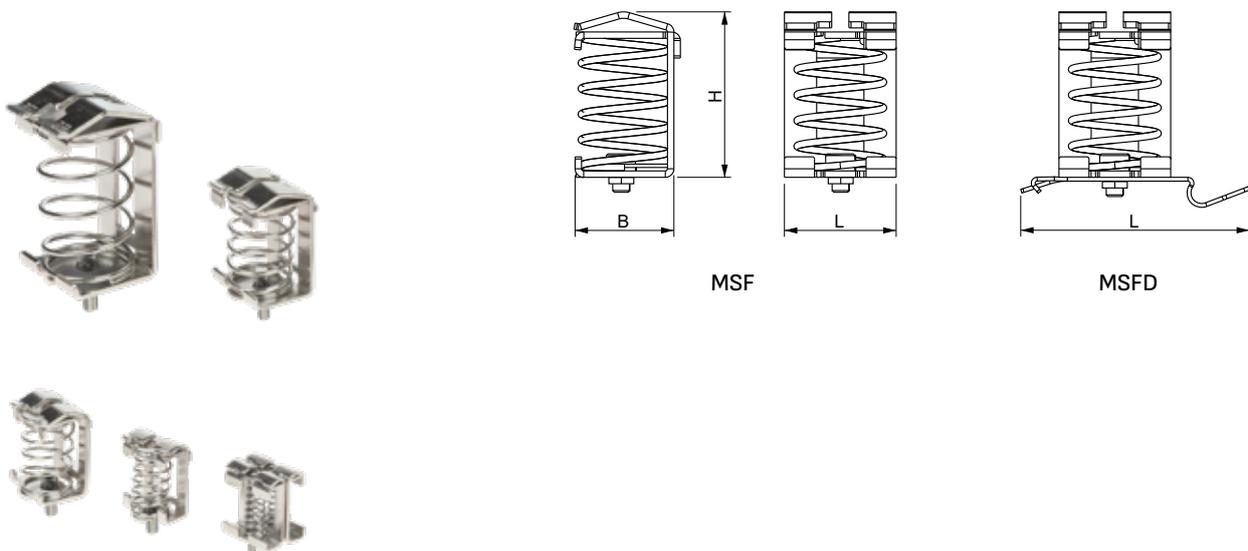


MSF

MSFD

Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
			H	L	B	
MSF 2x2-6	1734020300	3-6	23,1	18	16	10
MSF 3-8	1734020305	3-8	25,5	18,0	11,0	
MSFD 3-8	1734020310	3-8	26,0	50,0	14,5	
MSF 4-13,5	1734020315	4-13,5	30,0	18,0	15,0	
MSFD 4-13,5	1734020320	4-13,5	30,0	50,5	20,5	
MSF 10-20	1734020325	10-20	40,0	26,0	25,0	
MSFD 10-20	1734020330	10-20	40,0	50,5	25,0	
MSF 15-32	1734020335	15-32	64,0	32,0	36,0	
MSFD 15-32	1734020340	15-32	64,0	50,5	34,5	

Dimensions (mm)



MSF

MSFD



Spring shield clamps



MSFC



MSFE

FEATURES

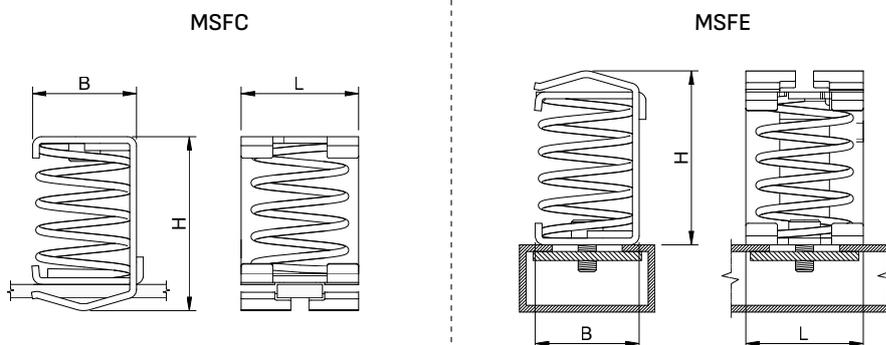
- Cable ranges from 2 to 32 mm
- MSFC: version with base for 3X10 rail
- MSFE: version with base for C 30 rail
- Constant pressure on the cable sheath without having to run tests and checks

The MSFC/MSFE shield clamps enable the cable shield to be grounded easily and effectively. They secure the strain relief function thanks to the spring which maintains constant pressure on the cable braid.

Material: steel with electrolytic nickel plating

Model	Code	Clamping range (mm)	Dimensions (mm)			Pcs (/pack)
			H	L	B	
MSFC 2x2-6	1734040705	2x2-6	24	15	18	10
MSFC 3-8	1734040710	3-8	26	13	18	
MSFC 4-13,5	1734040715	4-13,5	31,5	20	20,5	
MSFC 10-20	1734040720	10-20	40	25	26	
MSFC 15-32	1734040725	15-32	63,9	36	32	
MSFE 3-8	1734040810	3-8	26	10,3	18	10
MSFE 4-13,5	1734040815	4-13,5	31,1	18,1	20,2	
MSFE 10-20	1734040820	10-20	39,5	23,5	26,1	
MSFE 15-32	1734040825	15-32	62,5	36	32,1	

Dimensions (mm)





MSC

Shield clamps for printed circuit boards

FEATURES

- Cable ranges from 1,5 to 9 mm
- Direct mounting on PCB
- Constant pressure on the cable sheath without having to run tests and checks

The MSC shield clamps enable the cable shield to be grounded easily and effectively. The MSC shield clamps are fixed and soldered directly on the PCB.

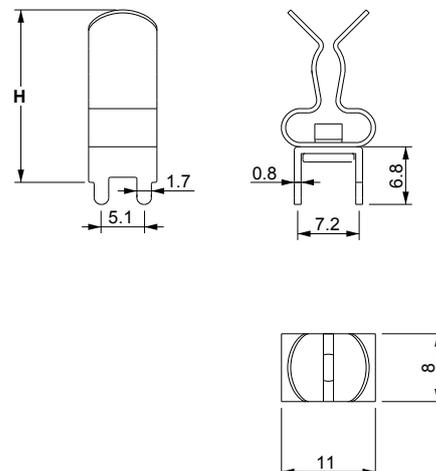
Material: spring steel, zinc plated, base in tinned brass



Model	Code	Clamping range (mm)	Clamp dimensions H (mm)	Pz (x conf.)
MSC 1.5-3	1734060001	1,5 - 3	18	50
MSC 3-6	1734060003	3 - 6	20,5	
MSC 7-9	1734060006	7 - 9	23	



Dimensions (mm)





Intumescent gaskets for DES family

FEATURES

- Intumescent gaskets for fire barrier
- In compliance with EN1363-1 and EN45545-3
- **Direct installation on DES Frames**
- Cost effective and can be ordered separately from the frames

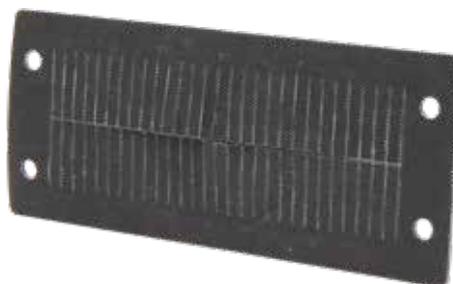


GKD series intumescent gaskets are used with DES, DES 24M frames for fire protection according to EN1363-1 and EN45545-3.

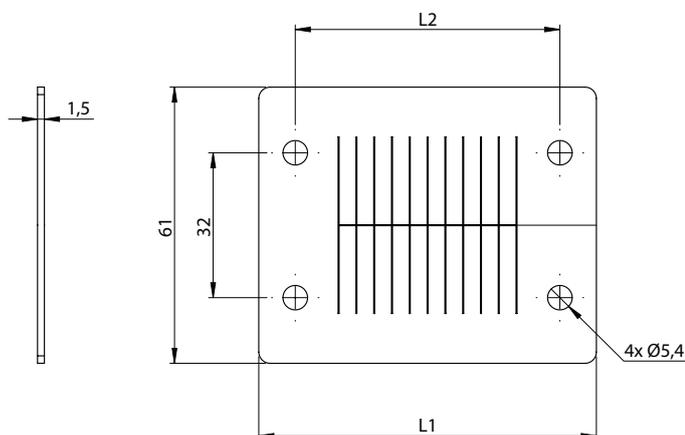
They consist of a flexible, intumescent material that expands under pressure with thermal influence. In the event of a fire, foam forms and a solid, pressure resistant wall is created.

Material: graphite-based intumescent material

Model	Code	Dimensions (mm)		Pcs (/pack)
		L1	L2	
GKD-24	1734080824	146	130	1
GKD-16	1734080816	120	103	
GKD-10	1734080810	99	33	
GKD-Q	1734080808	74	58	



Dimensions (mm)





FEATURES

- Direct installation on DES frames
- Effective grounding of the cable shield with integrated strain relief
- Quick installation
- Cost effective

The brackets of the EMCS series can be installed on the DES , DES M, DES CLiCK frames for shielding the cables using the MSB, MSR, MSRP or MSH clips.

Material: Stainless steel SS 304

RELATED PRODUCTS

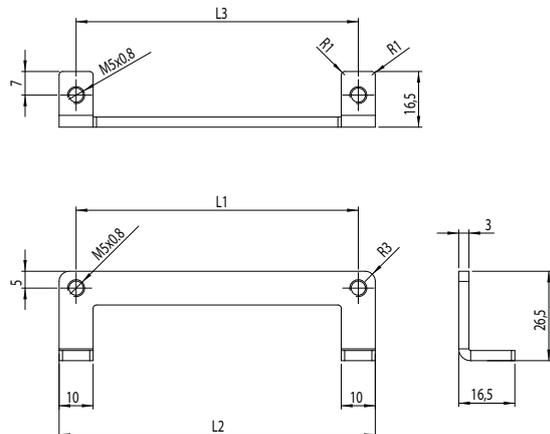
- DES Q
- DES L2
- DES 10
- DES L3
- DES 16
- DES Q CLICK
- DES 24
- DES 10 CLICK
- DES 16M
- DES 16 CLICK
- DES 24M
- DES 24 CLICK



Model	Code	Dimensions (mm)			Pcs (/pack)
		L1	L2	L3	
EMCS24	1734090124	130	140	130	1
EMCS16	1734090116	103	113	103	
EMCS10	1734090110	83	93	83	
EMCSQ	1734090108	58	68	58	



Dimensions (mm)





EMC bracket with strain relief for OSF family

FEATURES

- Stainless steel bracket for grounding the cable shield
- Quick installation on OSF/DESCCLICK/DESPRED divisible cable glands
- Cable strain relief with cable tie

The OSF EMC brackets allow grounding and strain relief of the shielded cables when installed in the OSF splittable cable glands family.

There are 4 models for the relevant metric openings M16, M20, M25 and M32 with two models of shield clips from 1,5 to 6 mm. Other diameters can be supplied upon request.

Material: Stainless steel SS304

RELATED PRODUCTS

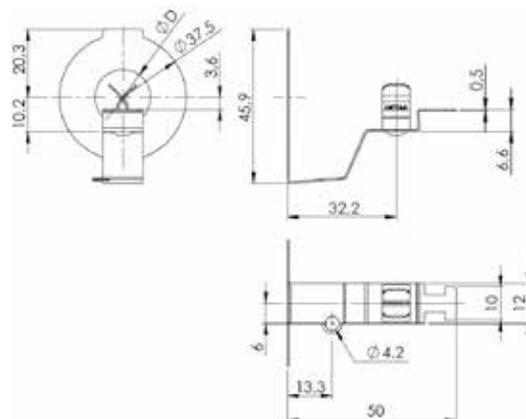
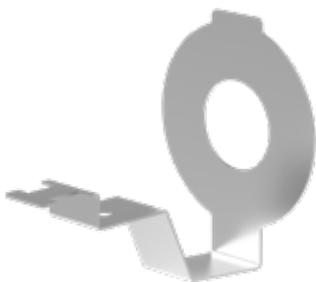
- OSF
- OSF 90
- DESCCLICK
- DESPRED



Model	Code	Ø D (mm)	Pcs (/pack)
BROSF-16-1,5-3	1734052316	16,5	10
BROSF-16-3-6	1734052317	16,5	
BROSF-20-1,5-3	1734052320	20,5	
BROSF-20-3-6	1734052321	20,5	
BROSF-25-1,5-3	1734052325	25,5	
BROSF-25-3-6	1734052326	25,5	
BROSF-32 -1,5-3	1734052332	32,5	
BROSF-32 -3-6	1734052333	32,5	

Other models upon request

Dimensions (mm)





MB

35 mm DIN RAIL bases

FEATURES

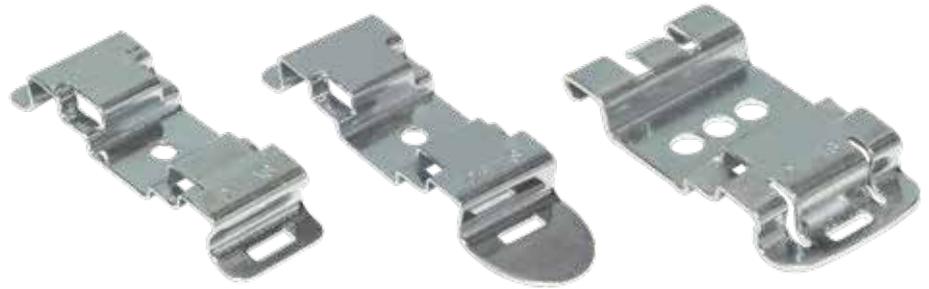
- Steel clips for installation of several devices on TS35 DIN rail
- Quick installation with rivets
- Strong and secure fixing

The MB DIN rail bases are used as quick and solid installation of any kind of device on the TS35 DIN rail. Any device can be fixed to the base with rivets.

Material: spring steel, zinc plated

RELATED PRODUCTS

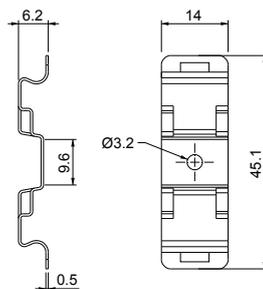
- MSS shield clamps
- MSS2 shield clamps
- MSL shield clamps
- MSS3 shield clamps



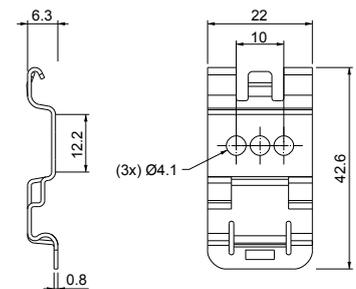
	Model	Code	Dimensions (mm)			Pcs (/pack)
			B	H	S	
	MB14	1734000150	14	45,1	6,2	
NEW	MB14V2	1734000151	14	52,4	6,2	50
	MB22	1734000100	22	42,6	6,3	

Dimensions (mm)

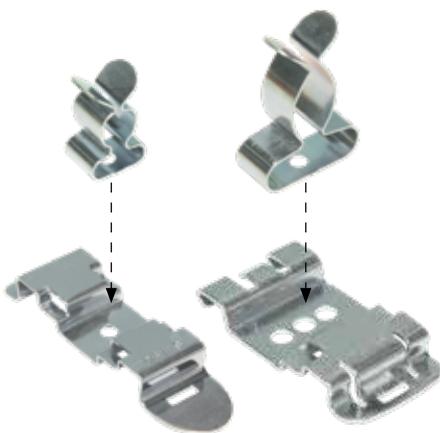
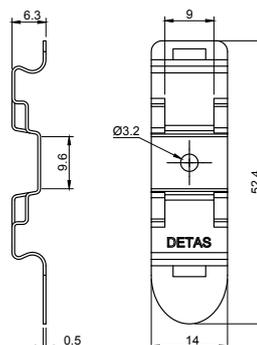
MB14



MB22



MB14V2



ENGINEERING BOX EMC



Box with shield clamp samples

FEATURES

- 163 shield clamps
- Wide choice of models with different fixings
- Price savings compared to separate purchase of each part

Practical box containing 163 shield clamps, various dimensions and fixing methods are available.

Thanks to the wide choice it is possible to select the most suitable model for the specific application.



Model	Code	Dimensions (mm)	Pcs (/pack)
ENGINEERING BOX EMC	1734090100	370 x 300 x 90	1

Box content

Model	Pcs	Model	Pcs	Model	Pcs
MB14	10	MSS 38-48	4	MSBL 3-9	10
MB22	10	MSD 22-30	3	MSBL 10-19	10
MSL 3-9	20	MSD 30-37	3	MSAL 3-9	10
MSL 10-19	20	MSD 38-48	3	MSAL 10-19	10
MSS 22-30	5	MSD2L 3-9	10	MSEL 3-9	10
MSS 30-37	5	MSD2L 10-19	10	MSEL 10-19	10

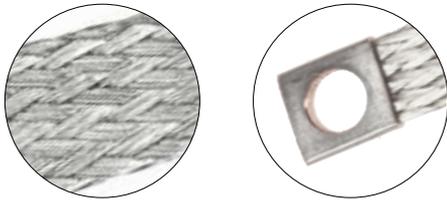


FEATURES

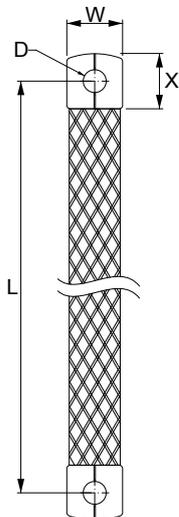
- Sections from 6 to 25 mm²
- Custom solutions available
- Sections up to 95 mm² on request
- High conductivity

The CTX flexible earthing straps are made of tinned copper braided wires.
Pure Cu-ETP - ASTM C11000 copper enables an excellent ground connection.

Material: tinned copper >99,95%



Dimensions (mm)



Model	Code	Section (mm ²)	Dimensions (mm)			
			L	W	X	D
CTX-6/200/M6	1734080010	6	200	11	13	7
CTX-6/250/M6	1734080015	6	250	11	13	7
CTX-6/300/M6	1734080020	6	300	11	13	7
CTX-6/400/M6	1734080025	6	400	11	13	7
CTX-6/500/M6	1734080030	6	500	11	13	7
CTX-10/100/M6	1734080035	10	100	17	23	7
CTX-10/100/M8	1734080040	10	100	17	23	9
CTX-10/150/M8	1734080045	10	150	17	23	9
CTX-10/200/M6	1734080050	10	200	17	23	7
CTX-10/200/M8	1734080055	10	200	17	23	9
CTX-10/250/M6	1734080060	10	250	17	23	7
CTX-10/300/M6	1734080065	10	300	17	23	7
CTX-10/300/M8	1734080070	10	300	17	23	9
CTX-10/400/M6	1734080075	10	400	17	23	7
CTX-10/400/M8	1734080080	10	400	17	23	9
CTX-10/500/M6	1734080085	10	500	17	23	7
CTX-16/100/M6	1734080090	16	100	17	23	7
CTX-16/100/M8	1734080095	16	100	17	23	9
CTX-16/150/M6	1734080100	16	150	17	23	7
CTX-16/150/M8	1734080105	16	150	17	23	9
CTX-16/200/M6	1734080110	16	200	17	23	7
CTX-16/200/M8	1734080115	16	200	17	23	9
CTX-16/250/M8	1734080120	16	250	17	23	9
CTX-16/300/M6	1734080125	16	300	17	23	7
CTX-16/300/M8	1734080130	16	300	17	23	9
CTX-16/350/M8	1734080135	16	350	17	23	9
CTX-16/400/M8	1734080140	16	400	17	23	9
CTX-16/500/M8	1734080145	16	500	17	23	9
CTX-16/600/M8	1734080150	16	600	17	23	9
CTX-25/100/M10	1734080155	25	100	23	23	11
CTX-25/150/M10	1734080160	25	150	23	23	11
CTX-25/200/M8	1734080165	25	200	23	23	9
CTX-25/200/M10	1734080170	25	200	23	23	11
CTX-25/250/M8	1734080175	25	250	23	23	9
CTX-25/300/M8	1734080180	25	300	23	23	9
CTX-25/300/M10	1734080185	25	300	23	23	11
CTX-25/350/M10	1734080190	25	350	23	23	11
CTX-25/400/M8	1734080195	25	400	23	23	9
CTX-25/500/M8	1734080200	25	500	23	23	9
CTX-25/600/M8	1734080205	25	600	23	23	9



DES EMC



Splittable frames for cable shielding

FEATURES

- Multiple configurations with small and large grommets
- Large conductive area in contact with the cable (21 mm)
- Excellent cable grip thanks to the multi-range grommets
- Frame screws in AISI304 Stainless Steel
- Sturdy construction IK10
- High levels of EMI shielding
- Anti-static protection
- Threaded inserts version on request

The DES EMC splittable frames are used when is necessary to ground shielded cables in fast and efficient way.

The frames are treated with a special conductive copper paint coated in silver while the grommets are produced with TPE with added conductive material. Thanks to the mechanical connection to the panel made by the fixing screws, the cable sheat is efficiently grounded without generating further disturbances often created by the external metal brackets that become antennas.

Material: PP+GF with Silver coated copper conductive coating, halogens and silicones free

Flammability: self-extinguishing acc. UL94-V0

Temperature: -40°C... +100°C (static)

RELATED PRODUCTS

- SPG EMC grommets (pag 134)
- SPP EMC grommets (pag 134)
- DES Cover (page 26)
- HY360 hydraulic punch driver (page 139)
- PF cable entry system plates (page 140)



Model	Code	Dimensions (mm)	Max. cut-out (mm)	Pcs (/pack)
DES 24 EMC	1734014024	 146 x 61	112 x 39	10
DES 16 EMC	1734014016	 120 x 61	86 x 39	
DES 10 EMC	1734014010	 99 x 61	63 x 39	
DES Q EMC	1734014008	 74 x 61	40 x 39	
DES L2 EMC	1734014002	 74 x 41	40 x 18	
DES L3 EMC	1734014003	 99 x 41	63 x 18	
DES L4 EMC	1734014004	 120 x 41	86 x 18	
DES L5 EMC	1734014005	 146 x 41	112 x 18	

up to
IP66

NEMA
12

 **UL94-V0**

 **ISO 4892-2A**

RoHS
COMPLIANT

IK10



SPP / SPG EMC



EMI/EMC small and large grommets



FEATURES

- Conductive grommets for cables from 2 to 35 mm diameter
- Single hole, multi-range, double and quadruple
- "Blind" version available
- UL94-HB
- Black color

The EMC grommets allow several shielded cables from 2 to 35 mm diameter to be routed in the DES EMC splittable frame.

The contact between the cable sheath and the grommet is safe and wide thanks to the grommet thickness.

The multi-range grommets simplify the cable shielding application and conductive element adhesion.

Material: TPE with conductive element, halogens and silicones free

Flammability: self-extinguishing acc. UL94-HB

Temperature: -40°C... +100°C (static)

RELATED PRODUCTS

- DES EMC

Model	Code	Ø Cable (mm)	Pcs (/pack)
SPP 0 EMC	1734024100	"Blind"	10
SPP 2 EMC	1734024102	2-3	
SPP 3-6 EMC	1734024140	3-6	
SPP 6-9 EMC	1734024142	26-92	
SPP 9-12 EMC	1734024144	9-12	
SPP 12-15 EMC	1734024146	12-15	
SPP 16 EMC	1734024116	16-17	

SPP 2x2 EMC	1734024304	2 x 2	10
SPP 2x3 EMC	1734024306	2 x 3	
SPP 2x4 EMC	1734024308	2 x 4	
SPP 2x5 EMC	1734024310	2 x 5	
SPP 2x6 EMC	1734024312	2 x 6	
SPP 2x7 EMC	1734024314	2 x 7	
SPP 2x8 EMC	1734024316	2 x 8	

SPP 4x2 EMC	1734024318	4 x 2	10
SPP 4x3 EMC	1734024320	4 x 3	
SPP 4x4 EMC	1734024322	4 x 4	
SPP 4x5 EMC	1734024324	4 x 5	
SPP 4x6 EMC	1734024326	4 x 6	

Model	Code	Ø Cable (mm)	Pcs (/pack)
SPG 0 EMC	1734024000	"Blind"	10
SPG 17 EMC	1734024117	17-18	
SPG 18 EMC	1734024118	18-19	
SPG 19 EMC	1734024119	19-20	
SPG 20 EMC	1734024120	20-21	
SPG 21 EMC	1734024121	21-22	
SPG 22 EMC	1734024122	22-23	
SPG 23 EMC	1734024123	23-24	
SPG 24 EMC	1734024124	24-25	
SPG 25 EMC	1734024125	25-26	
SPG 26 EMC	1734024126	26-27	
SPG 27 EMC	1734024127	27-28	
SPG 28 EMC	1734024128	28-29	
SPG 29 EMC	1734024129	29-30	
SPG 30 EMC	1734024130	30-31	
SPG 31 EMC	1734024131	31-32	
SPG 32 EMC	1734024132	32-33	
SPG 33 EMC	1734024133	33-34	
SPG 34 EMC	1734024134	34-35	

up to
IP66

NEMA 12

UL94-HB

UV ISO 4892-2A

RoHS COMPLIANT