



## Type MSV (plug-in fitting)



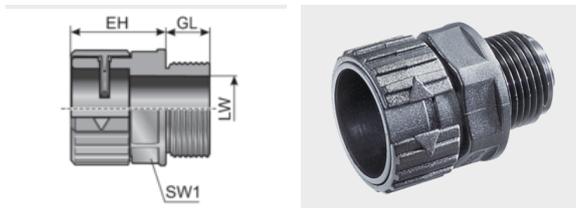
### Product information

The MSV conduit fittings are made of specially modified polyamide 6. The materials are halogen, phosphor and cadmium-free.

The affordable MSV conduit fittings feature the following advantages:

- No parts can get lost, delivered completely assembled
- Cost reduction through simple assembly work, insert conduit and done
- Simple opening mechanism
- Tightness of IP 54 for static and dynamic application, IP 65 with additional mounting of an O-ring

### Information, conformities and approvals



Article	Order No.	Color	UV	Connecting thread	Suitable for Murrflex	EH mm	GL mm	LW mm	SW 1 mm	PU pcs.
MSV M12x1.5/7	83602450	Black	✓	M12x1,5	M10/P07	19	13	8	16	50
MSV M12x1.5/9	83602452	Black	✓	M12x1,5	M12/P09	19	13	8	18	50
MSV M12x1.5/11	83602456	Black	✓	M12x1,5	M16/P11	23	13	8	21	50
MSV M16x1.5/9	83602454	Black	✓	M16x1,5	M12/P09	19	13	12	18	50
MSV M16x1.5/11	83602458	Black	✓	M16x1,5	M16/P11	23	13	12	21	50
MSV M20x1.5/11	83602459	Black	✓	M20x1,5	M16/P11	23	14	13.5	21	50
MSV M20x1.5/16	83602460	Black	✓	M20x1,5	M20/P16(S)	27	14	15	27	50
MSV M25x1.5/16	83602461	Black	✓	M25x1,5	M20/P16(S)	26	14	19	27	50
MSV M25x1.5/21	83602462	Black	✓	M25x1,5	M25/P21(S)	32	14	21	36	50
MSV M32x1.5/21	83602463	Black	✓	M32x1,5	M25/P21(S)	32	14	26	36	50
MSV M32x1.5/29	83602464	Black	✓	M32x1,5	M32/P29(S)	34	14	27	40	25
MSV M40x1.5/29	83602465	Black	✓	M40x1,5	M32/P29(S)	34	14	32	40	25
MSV M40x1.5/36	83602466	Black	✓	M40x1,5	M40/P36(S)	38	16	34	49	10



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Article	Order No.	Color	UV	Connecting thread	Suitable for Murrflex	EH mm	GL mm	LW mm	SW 1 mm	PU pcs.
MSV M50x1,5/36	83602467	Black	✓	M50x1,5	M40/P36(S)	37.5	16	40	49	10
MSV M50x1,5/48	83602468	Black	✓	M50x1,5	M50/P48(S)	39	16	44	60	10
MSV M63x1,5/48	83602469	Black	✓	M63x1,5	M50/P48(S)	38.5	16	52	60	10
MSV M12x1,5/7	83602410	Gray	✗	M12x1,5	M10/P07	19	13	8	16	50
MSV M12x1,5/9	83602412	Gray	✗	M12x1,5	M12/P09	19	13	8	18	50
MSV M12x1,5/11	83602416	Gray	✗	M12x1,5	M16/P11	23	13	8	21	50
MSV M16x1,5/9	83602414	Gray	✗	M16x1,5	M12/P09	19	13	12	18	50
MSV M16x1,5/11	83602418	Gray	✗	M16x1,5	M16/P11	23	13	12	21	50
MSV M20x1,5/11	83602419	Gray	✗	M20x1,5	M16/P11	23	14	13.5	21	50
MSV M20x1,5/16	83602420	Gray	✗	M20x1,5	M20/P16(S)	27	14	15	27	50
MSV M25x1,5/16	83602421	Gray	✗	M25x1,5	M20/P16(S)	26	14	19	27	50
MSV M25x1,5/21	83602422	Gray	✗	M25x1,5	M25/P21(S)	32	14	21	36	50
MSV M32x1,5/21	83602423	Gray	✗	M32x1,5	M25/P21(S)	32	14	26	36	50
MSV M32x1,5/29	83602424	Gray	✗	M32x1,5	M32/P29(S)	34	14	27	40	25
MSV M40x1,5/29	83602425	Gray	✗	M40x1,5	M32/P29(S)	34	14	32	40	25
MSV M40x1,5/36	83602426	Gray	✗	M40x1,5	M40/P36(S)	38	16	34	49	10
MSV M50x1,5/36	83602427	Gray	✗	M50x1,5	M40/P36(S)	37.5	16	40	49	10
MSV M50x1,5/48	83602428	Gray	✗	M50x1,5	M50/P48(S)	39	16	44	60	10
MSV M63x1,5/48	83602429	Gray	✗	M63x1,5	M50/P48(S)	38.5	16	52	60	10
MSV PG07	83601050	Black	✓	PG 07	M10/P07	19	9	8	16	50
MSV PG09	83601052	Black	✓	PG 09	M12/P09	19	10	9.6	18	50
MSV PG11	83601054	Black	✓	PG 11	M16/P11	23	10	13.8	21	50
MSV PG13,5/11	83601055	Black	✓	PG 13,5	M16/P11	23	13	12	21	50
MSV PG13,5/16	83601056	Black	✓	PG 13,5	M20/P16(S)	27	13	15.5	27	50
MSV PG16/09	83601057	Black	✓	PG 16	M12/P09	19	13	27	27	50



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Article	Order No.	Color	UV	Connecting thread	Suitable for Murrflex	EH mm	GL mm	LW mm	SW 1 mm	PU pcs.
MSV PG16	83601058	Black	✓	PG 16	M20/P16(S)	27	13	17	27	50
MSV PG21/16	83601059	Black	✓	PG 21	M20/P16	26	14	23	36	50
MSV PG21	83601060	Black	✓	PG 21	M25/P21(S)	32	14	23	36	50
MSV PG29	83601062	Black	✓	PG 29	M32/P29(S)	35	14	28	40	25
MSV PG36	83601064	Black	✓	PG 36	M40/P36(S)	38	15	40	49	10
MSV PG48	83601066	Black	✓	PG 48	M50/P48(S)	39	17	47	60	10
MSV PG07	83601010	Gray	✗	PG 07	M10/P07	19	9	8	16	50
MSV PG09	83601012	Gray	✗	PG 09	M12/P09	19	10	9.6	18	50
MSV PG11	83601014	Gray	✗	PG 11	M16/P11	23	10	13.8	21	50
MSV PG13,5/11	83601015	Gray	✗	PG 13,5	M16/P11	23	13	12	21	50
MSV PG13,5/16	83601016	Gray	✗	PG 13,5	M20/P16(S)	27	13	15.5	27	50
MSV PG16/09	83601017	Gray	✗	PG 16	M12/P09	19	13	27	27	50
MSV PG16	83601018	Gray	✗	PG 16	M20/P16(S)	27	13	17	27	50
MSV PG21/16	83601019	Gray	✗	PG 21	M20/P16	26	14	36	36	50
MSV PG21	83601020	Gray	✗	PG 21	M25/P21(S)	32	14	23	36	50
MSV PG29	83601022	Gray	✗	PG 29	M32/P29(S)	35	14	28	40	25
MSV PG36	83601024	Gray	✗	PG 36	M40/P36(S)	38	15	40	49	10
MSV PG48	83601026	Gray	✗	PG 48	M50/P48(S)	39	17	47	60	10
MSV NPT 1/2"/16 1)	83602652	Black	✓	1/2"	M20/P16(S)	27	14	15	27	50
MSV NPT 3/4"/21 1)	83602654	Black	✓	3/4"	M25/P21(S)	32	14	20.5	36	50
MSV NPT 1"/29 1)	83602656	Black	✓	1"	M32/P29(S)	35	16	26.5	40	25
MSV NPT 1/2"/16 1)	83602612	Gray	✗	1/2"	M20/P16(S)	27	14	15	27	50
MSV NPT 3/4"/21 1)	83602614	Gray	✗	3/4"	M25/P21(S)	32	14	20.5	36	50
MSV NPT 1"/29 1)	83602616	Gray	✗	1"	M32/P29(S)	35	16	26.5	40	25

1) Discontinued product!



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### Material properties



Fitting: mod. polyamide PA 6 mod. polyamide PA 6

### Thermal properties



Temperature / temperature range

-40 °C - 110 °C / short term: 140 °C

### Protection class



Protection class

IP54

IP65 with sealing ring DR-NBR

### Fire properties



Fire classification

acc. to UL94: V0 self-extinguishing



Fire properties as per EN 45545-2

C.I.T. R22 / R23 HL3 :0,58 NF X 70-100-1/-2 600°C (1112 °F)

LOI R22 / R23 HL3 :≥ 32 % ISO 4589-2

Ds (max.) R22 / R23 HL3 :57 ISO 5659-2 (25 KW/m<sup>2</sup>)



Fire properties as per NFPA

ASTM E 162

ASTM E 1354

ASTM E 662

Boeing BSS 7239

Boeing BSS 7242

Bombardier SMP 800-C

### Chemical resistances



Resistant to:

Alcohol

Greases

Fuels

Mineral oils



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### Technical information



Halogen-free

### Conformity



RoHS (EC Directive 2011/65/EU)



ECE 324 R 118

### Approvals and operating permits



EU railway approval



cURus approval

### Classification

ETIM 9: EC001176  
ECLASS 14: 27430312  
UNSPSC 26.0801: 40183103

### General information



Made in Germany