

08

ANSCHLUSSTECHNIK CONNECTORS



ZUORDNUNGSTABELLE
ASSIGNMENT TABLE

Nenngröße AD Schlauch-Außen-ø	Metr. Gewinde EN 60423	PG Gewinde DIN 40430
Trade Size OD Tubing outer ø	metric Thread EN 60423	PG Thread DIN 40430
10,0	M 10 x 1,0	PG 7
10,0	M 12 x 1,5	
14,0	M 12 x 1,5	PG 9
14,0	M 16 x 1,5	
17,0	M 16 x 1,5	PG 11
17,0	M 20 x 1,5	
19,0		PG 13,5
21,0	M 20 x 1,5	PG 16
21,0	M 25 x 1,5	
27,0	M 25 x 1,5	PG 21
27,0	M 32 x 1,5	
36,0	M 32 x 1,5	PG 29
36,0	M 40 x 1,5	
45,0	M 40 x 1,5	PG 36
45,0	M 50 x 1,5	
56,0	M 50 x 1,5	PG 48
56,0	M 63 x 1,5	

US – M | – P

Metallverschraubung
Metal connector

08. 2

**USW – M | – P**

Metallverschraubung
Winkel 90°
Metal connector
elbow 90°

08.20

**SGL**

Schelle passend zu
Typ NIMS
Clamp suitable for
type NIMS

08.30

**US2 – M**

Metallverschraubung
Metal connector

08. 8

**USK – M | – P**

Kunststoffverschraubung
Plastic connector

08.24

**MSD**

Druckring
Material Messing
Thrust collar
Material brass

08.31

**USDR – M**

Metallverschraubung
drehbares Gewinde
Metal connector
turnable thread

08.10

**LKI – M | – P**

Kunststoffverschraubung
einteilig mit Innentülle
drehbar
Plastic connector
one-part with ferrule
turnable

08.25

**TED**

Dichtring
Material PTFE
Sealing
Material PTFE

08.31

**USZ – M**

Metallverschraubung
Zugentlastung
Metal connector
strain relief

08.12

**US – FOOD – M**

Metallverschraubung
Lebensmittelecht
Metal connector
food-safe

08.26

**EK**

Endtülle
Material Polypropylen
Terminal sleeve
Material polypropylene

08.32

**USZ – EX – M**

Metallverschraubung
Zugentlastung
Metal connector
strain relief

08.14

**EG – M | – P**

Metallverschraubung
Metal connector

08.27

**AK**

Endtülle | Übergangsstülle
von Schlauch zu Kabel
Material TPE
End cap | transition
from tubing to cable
Material TPE

08.32

**USD – M | – P**

Metallverschraubung
Metal connector

08.16

**EW 45 – M | – P**

Metallverschraubung
Winkel 45°
Metal connector
elbow 45°

08.28

**EEM | EE**

Endtülle | Innentülle
Material Messing
Terminal sleeve | ferrule
Material brass

08.33

**LI – M | – P**

Metallverschraubung
integrierte Innentülle
drehbar
Metal connector
integrated ferrule
turnable

08.18

**EW 90 – M | – P**

Metallverschraubung
Winkel 90°
Metal connector
elbow 90°

08.29

**EEK**

Endtülle | Innentülle
Material Kunststoff
Terminal sleeve | ferrule
Material plastics

08.34

**LIF – M | – P**

Metallverschraubung
integrierte Innentülle
Metal connector
integrated ferrule

08.19

**NIMS – M | – P**

Metall Schlaucholive
Metal conduit olive

08.30



Montage- und
Trennhilfen
Mounting and
parting tools

08.35



♦ IP 40 ... IP 66
⌚ -40°C ... +125°C | +250°C [MSD]



US-M

Metall-Sicherheitsverschraubung
 gerade
 Außengewinde
 inkl. Innentülle, Dichtring oder
 Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type
 straight
 outer thread
 incl. ferrule, sealing or
 brass thrust collar [MSD] and O-ring

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-
 schlüsselfläche, Anschlussgewinde metrisch
 nach EN 60423, Sechskantdruckmutter,
 Kunststoff-Dichtring oder
 Messing-Druckring, O-Ring
 Innentülle aus Metall / Kunststoff

STRUCTURE

Connector body with hexagonal wrench
 surface, connecting thread metric
 acc. to EN 60423, hexagon pressure nut,
 plastic seal or brass thrust collar, O-ring
 ferrule made of metal / plastics

MATERIAL

Gehäuse	Messing vernickelt
Druckmutter	Messing vernickelt
Dichtring	TPE oder PTFE
Druckring	Messing
Innentülle	Messing Kunststoff
O-Ring	NBR

MATERIAL

Connector body	nickel-plated brass
Pressure nut	nickel-plated brass
Sealing ring	TPE or PTFE
Thrust collar	brass
Ferrule	brass plastics
O-ring	NBR

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

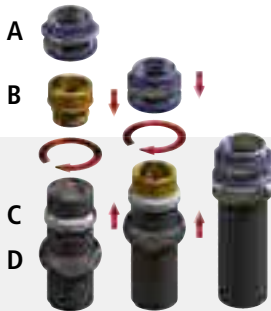
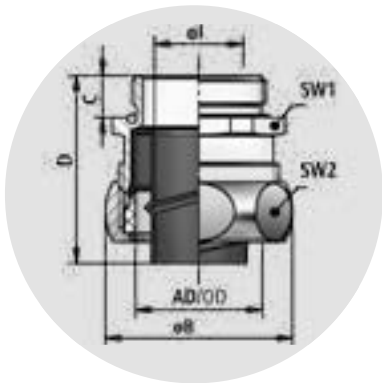
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung
 ist nur mit entsprechender Innentülle
 gewährleistet.
 Für EMV-Anwendung bitte die
 Montageanleitung beachten.

IMPORTANT

The security of the connector is only
 guaranteed with the corresponding
 ferrule.
 For emc-usage please see our
 assembly instructions.



- A** Verschraubungsgehäuse
 mit montiertem O-Ring
 connector body with
 mounted O-ring
B Innentülle
 ferrule
C Dichtring oder
 Messing-Druckring
 sealing ring or
 brass thrust collar
D Druckmutter
 pressure nut

AD
OD
















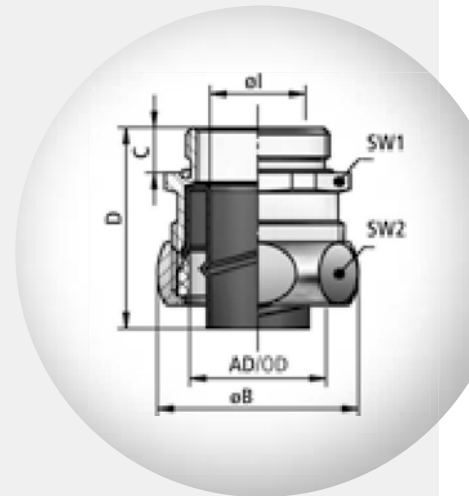
Technische Basisdaten US-M
 Technical basic data US-M

ø	Metr. EN 60423	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100
10	M 10 x 1,0	19,0	10,0	31,0	15	17	1,390
14	M 12 x 1,5	23,0	10,0	33,0	19	21	2,140
17	M 16 x 1,5	27,0	10,0	33,0	23	25	3,000
21	M 20 x 1,5	31,0	10,0	33,0	27	29	3,940
27	M 25 x 1,5	39,0	11,0	41,0	34	36	7,500
36	M 32 x 1,5	48,0	13,0	43,0	43	45	11,300
45	M 40 x 1,5	57,0	13,0	43,0	52	54	15,000
56	M 50 x 1,5	70,0	14,0	49,0	63	66	21,800
56	M 63 x 1,5	74,0	14,0	49,0	70	70	27,100

US-M

 IP 40 ... IP 65
 -40°C ... +125°C








AD		FLEXA No.				FLEXA No.	
OD		SPR-AS SPR-VA		Kleine VPE small packing units			
ø	Metr. EN 60423	[IP 40]	mm	øl mm	St. pcs.		St. pcs.
10	M 10 x 1,0	5010.327.010	8 x 10	6,5	50	5010.827.010	10
14	M 12 x 1,5	5010.327.012	11 x 14	9,0	50	5010.827.012	10
17	M 16 x 1,5	5010.327.016	14 x 17	12,5	50	5010.827.016	10
21	M 20 x 1,5	5010.327.020	18 x 21	16,0	50	5010.827.020	10
27	M 25 x 1,5	5010.327.025	23 x 27	21,0	25	5010.827.025	10
36	M 32 x 1,5	5010.327.032	31 x 36	27,5	25	5010.827.032	2
45	M 40 x 1,5	5010.327.040	40 x 45	35,0	20	5010.827.040	2
56	M 50 x 1,5	5010.327.050	51 x 56	45,0	10	5010.827.050	2
56	M 63 x 1,5	5010.327.163	51 x 56	45,0	10	5010.827.163	2
		SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS		Kleine VPE small packing units			
ø	Metr. EN 60423	[IP 65]	mm	øl mm	St. pcs.		St. pcs.
10	M 10 x 1,0	5010.328.010	7 x 10	6,0	50	5010.828.010	10
14	M 12 x 1,5	5010.328.012	10 x 14	8,5	50	5010.828.012	10
17	M 16 x 1,5	5010.328.016	13 x 17	11,5	50	5010.828.016	10
21	M 20 x 1,5	5010.328.020	17 x 21	15,5	50	5010.828.020	10
27	M 25 x 1,5	5010.328.025	22 x 27	20,5	25	5010.828.025	10
36	M 32 x 1,5	5010.328.032	29 x 36	27,5	25	5010.828.032	2
45	M 40 x 1,5	5010.328.040	38 x 45	35,0	20	5010.828.040	2
56	M 50 x 1,5	5010.328.050	49 x 56	45,0	10	5010.828.050	2
56	M 63 x 1,5	5010.328.163	49 x 56	45,0	10	5010.828.163	2
		FLEXAgraff®-PU-AS FLEXAgraff®-PU-F		Kleine VPE small packing units			
ø	Metr. EN 60423	[IP 65]	mm	øl mm	St. pcs.		St. pcs.
10	M 10 x 1,0	5010.328.010	7 x 10	6,0	50	5010.828.010	10
14	M 12 x 1,5	5010.327.012	11 x 14	9,0	50	5010.827.012	10
17	M 16 x 1,5	5010.328.016	13 x 17	11,5	50	5010.828.016	10
21	M 20 x 1,5	5010.328.020	17 x 21	15,5	50	5010.828.020	10
27	M 25 x 1,5	5010.340.025	23 x 27	21,0	25	5010.840.025	10
36	M 32 x 1,5	5010.328.032	29 x 36	27,5	25	5010.828.032	2
45	M 40 x 1,5	5010.328.040	38 x 45	35,0	20	5010.828.040	2
56	M 50 x 1,5	5010.328.050	49 x 56	45,0	10	5010.828.050	2
56	M 63 x 1,5	5010.328.163	49 x 56	45,0	10	5010.828.163	2
		AIRflex®-KUW-PVC-AS AIRflex®-KUW-PU-AS AIRflex®-GRS [IP 65] AIRflex®-K		Kleine VPE small packing units			
ø	Metr. EN 60423	[IP 54]	mm	øl mm	St. pcs.		St. pcs.
10	M 10 x 1,0	5010.330.010	7 x 10	6,0	50	5010.830.010	10
14	M 12 x 1,5	5010.330.012	10 x 14	9,0	50	5010.830.012	10
17	M 16 x 1,5	5010.330.016	13 x 17	11,5	50	5010.830.016	10
21	M 20 x 1,5	5010.330.020	16 x 21	14,5	50	5010.830.020	10
27	M 25 x 1,5	5010.330.025	21 x 27	19,5	25	5010.830.025	10
36	M 32 x 1,5	5010.330.032	29 x 36	26,5	25	5010.830.032	2
45	M 40 x 1,5	5010.330.040	38 x 45	35,0	20	5010.830.040	2
56	M 50 x 1,5	5010.330.050	48 x 56	45,5	10	5010.830.050	2
56	M 63 x 1,5	5010.330.163	48 x 56	45,5	10	5010.830.163	2

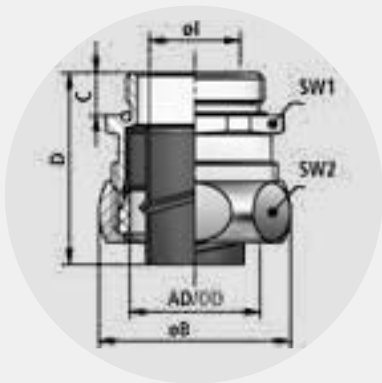










♦ IP 40 ... IP 66
⌋ -40°C ... +125°C | +250°C [MSD]

US-M



AD OD		FLEXA No.				FLEXA No.	
		FLEXAgraff®-AS FLEXAgraff®-VA				Kleine VPE Small packing units	
ø	Metr. EN 60423	[IP 40]	mm	øl mm	St. pcs.	[IP 40]	St. pcs.
10	M 10 x 1,0	5010.327.010	8 x 10	6,5	50	5010.827.010	10
14	M 12 x 1,5	5010.339.012	12 x 14	9,0	50	5010.839.012	10
17	M 16 x 1,5	5010.327.016	14 x 17	12,5	50	5010.827.016	10
21	M 20 x 1,5	5010.327.020	18 x 21	16,5	50	5010.827.020	10
27	M 25 x 1,5	5010.339.025	24 x 27	21,0	25	5010.839.025	10
36	M 32 x 1,5	5010.327.032	31 x 36	27,5	25	5010.827.032	2
45	M 40 x 1,5	5010.327.040	40 x 45	35,0	20	5010.827.040	2
56	M 50 x 1,5	5010.327.050	51 x 56	45,0	10	5010.827.050	2
56	M 63 x 1,5	5010.327.163	51 x 56	45,0	10	5010.827.163	2



AD OD		FLEXA No.			FLEXA No.			
		FLEXAgraff®-SI-ASF						
ø	Metr. EN 60423	[IP 66]	mm	øl mm	St. pcs.			
14	M 12 x 1,5	5010.337.012	10 x 14	9,0	50			
17	M 16 x 1,5	5010.337.016	12 x 17	10,5	50			
21	M 20 x 1,5	5010.335.020	16 x 21	14,5	50			
27	M 25 x 1,5	5010.301.025	21 x 27	19,5	25			
36	M 32 x 1,5	5010.337.032	27 x 36	26,5	25			
45	M 40 x 1,5	5010.337.040	36 x 45	34,5	20			
56	M 50 x 1,5	5010.337.050	47 x 56	45,0	10			
56	M 63 x 1,5	5010.337.163	47 x 56	45,0	10			

ø	Metr. EN 60423	[IP 40]	mm	øl mm	[IP 40]	mm	øl mm	St. pcs.
10	M 10 x 1,0	5011.328.010	7 x 10	6,0	5011.328.010	7 x 10	6,0	50
14	M 12 x 1,5	5011.327.012	11 x 14	9,0	5011.328.012	10 x 14	8,5	50
17	M 16 x 1,5	5011.328.016	13 x 17	11,5	5011.328.016	13 x 17	11,0	50
21	M 20 x 1,5	5011.328.020	17 x 21	16,0	5011.328.020	17 x 21	15,5	50
27	M 25 x 1,5	5011.340.025	23 x 27	21,0	5011.328.025	22 x 27	20,5	25
36	M 32 x 1,5	5011.328.032	29 x 36	27,5	5011.328.032	29 x 36	27,5	25
45	M 40 x 1,5	5011.328.040	38 x 45	35,0	5011.328.040	38 x 45	35,0	20
56	M 50 x 1,5	5011.328.050	49 x 56	45,0	5011.328.050	49 x 56	45,0	10
56	M 63 x 1,5	5011.328.163	49 x 56	47,0	5011.328.163	49 x 56	45,0	10

ø	Metr. EN 60423	[IP 54]	mm	øl mm	[IP 54]	mm	øl mm	St. Pcs.
14	M 12 x 1,5	5011.328.012	9 x 14	8,5	5011.328.012	9 x 14	8,5	50
17	M 16 x 1,5	5011.335.016	12 x 17	11,0	5011.335.016	12 x 17	11,0	50
21	M 20 x 1,5	5011.335.020	15 x 21	14,5	5011.335.020	16 x 21	14,5	50
27	M 25 x 1,5	5011.335.025	20 x 27	19,5	5011.301.025	21 x 27	19,5	25
36	M 32 x 1,5	5011.328.032	28 x 36	27,5	5011.337.032	28 x 36	27,5	25
45	M 40 x 1,5	5011.335.040	37 x 45	35,0	5011.335.040	37 x 45	35,0	20
56	M 50 x 1,5	5011.335.050	48 x 56	45,0	5011.335.050	48 x 56	45,0	10
56	M 63 x 1,5	5011.335.163	48 x 56	45,5	5011.335.163	48 x 56	45,5	10

US-P

Metall-Sicherheitsverschraubung gerade, Außengewinde inkl. Innentülle, Dichtring oder Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type straight, outer thread incl. ferrule, sealing or brass thrust collar [MSD] and O-ring

IP 40 ... IP 65
-40°C ... +125°C | +250°C [MSD]

KONSTRUKTION

Verschraubungsgehäuse mit Sechskantschlüsselfläche, Anschlussgewinde PG nach DIN 40430, Sechskantdruckmutter, Kunststoff-Dichtring oder Messing-Druckring, O-Ring Innentülle aus Metall / Kunststoff

STRUCTURE

Connector body with hexagonal wrench surface, connecting thread PG acc. to DIN 40430, hexagon pressure nut, plastic seal or brass thrust collar, O-ring ferrule made of metal / plastics

MATERIAL

Gehäuse Messing vernickelt
Druckmutter Messing vernickelt
Dichtring TPE oder PTFE
Druckring Messing
Innentülle Messing | Kunststoff
O-Ring NBR

MATERIAL

Connector body nickel-plated brass
Pressure nut nickel-plated brass
Sealing ring TPE or PTFE
Thrust collar brass
Ferrule brass | plastics
O-ring NBR

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

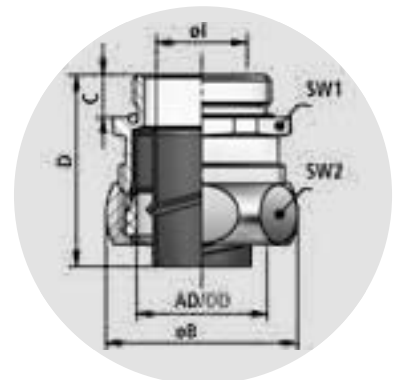
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet. Für EMV-Anwendung bitte die Montageanleitung beachten.

IMPORTANT

The security of the connector is only guaranteed with the corresponding ferrule. For emc-usage please see our assembly instructions.



- A Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B Innentülle
ferrule
- C Dichtring oder Messing-Druckring
sealing ring or brass thrust collar
- D Druckmutter
pressure nut

AD
OD

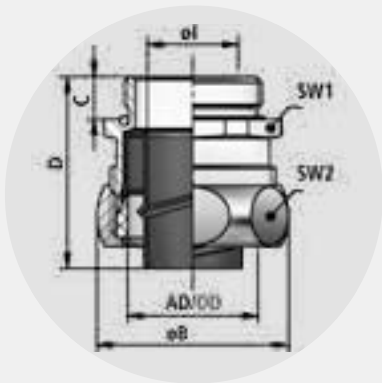















Technische Basisdaten US-P
Technical basic data US-P

ø	PG DIN 40430	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100
10	7	19,0	7,0	28,0	15	17	1,420
14	9	23,0	7,0	30,0	19	21	2,140
17	11	27,0	7,0	30,0	23	25	3,000
19	13,5	29,0	7,0	30,0	25	27	3,370
21	16	31,0	7,0	30,0	27	29	3,700
27	21	39,0	10,0	40,0	34	36	7,350
36	29	48,0	10,0	40,0	43	45	10,300
45	36	57,0	10,0	40,0	52	54	13,400
56	48	70,0	10,0	45,0	63	66	19,130

 IP 40 ... IP 66
 -40°C ... +125°C







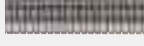
US-P











AD OD		FLEXA No.				FLEXA No.	
		SPR-AS SPR-VA				Kleine VPE small packing units	
ø	PG DIN 40430	[IP 40]	mm	øl mm	St. pcs.		St. pcs.
10	7	5010.127.007	8 x 10	6,5	50	5010.427.007	10
14	9	5010.127.009	11 x 14	10,0	50	5010.427.009	10
17	11	5010.127.011	14 x 17	12,5	50	5010.427.011	10
19	13,5	5010.127.013	16 x 19	14,5	50	5010.427.013	10
21	16	5010.127.016	18 x 21	16,0	50	5010.427.016	10
27	21	5010.127.021	23 x 27	21,5	25	5010.427.021	10
36	29	5010.127.029	31 x 36	29,0	25	5010.427.029	2
45	36	5010.127.036	40 x 45	38,0	20	5010.427.036	2
56	48	5010.127.048	51 x 56	49,0	10	5010.427.048	2
		SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS				Kleine VPE small packing units	
ø	PG DIN 40430	[IP 65]	mm	øl mm	St. pcs.		St. pcs.
10	7	5010.128.007	7 x 10	6,0	50	5010.428.007	10
14	9	5010.128.009	10 x 14	8,5	50	5010.428.009	10
17	11	5010.128.011	13 x 17	11,5	50	5010.428.011	10
19	13,5	5010.128.013	15 x 19	13,5	50	5010.428.013	10
21	16	5010.128.016	17 x 21	15,5	50	5010.428.016	10
27	21	5010.128.021	22 x 27	20,5	25	5010.428.021	10
36	29	5010.128.029	29 x 36	27,5	25	5010.428.029	2
45	36	5010.128.036	38 x 45	36,5	20	5010.428.036	2
56	48	5010.128.048	49 x 56	47,5	10	5010.428.048	2
		FLEXAgraft®-PU-AS FLEXAgraft®-PU-F				Kleine VPE small packing units	
ø	PG DIN 40430	[IP 65]	mm	øl mm	St. pcs.		St. pcs.
10	7	5010.128.007	7 x 10	6,0	50	5010.428.007	10
14	9	5010.127.009	11 x 14	10,0	50	5010.427.009	10
17	11	5010.128.011	13 x 17	11,5	50	5010.428.011	10
19	13,5	5010.128.013	15 x 19	13,5	50	5010.428.013	10
21	16	5010.128.016	17 x 21	15,5	50	5010.428.016	10
27	21	5010.140.021	23 x 27	21,5	25	5010.440.021	10
36	29	5010.128.029	29 x 36	27,5	25	5010.428.029	2
45	36	5010.128.036	38 x 45	36,5	20	5010.428.036	2
56	48	5010.128.048	49 x 56	47,5	10	5010.428.048	2
		AIRflex®-KUW-PVC-AS AIRflex®-KUW-PU-AS AIRflex®-GRS [IP 65] AIRflex®-K				Kleine VPE small packing units	
ø	PG DIN 40430	[IP 54]	mm	øl mm	St. pcs.		St. pcs.
10	7	5010.130.007	7 x 10	6,0	50	5010.430.007	10
14	9	5010.130.009	10 x 14	9,0	50	5010.430.009	10
17	11	5010.130.011	13 x 17	11,5	50	5010.430.011	10
19	13,5	5010.130.013	15 x 19	13,0	50	5010.430.013	10
21	16	5010.130.016	16 x 21	14,5	50	5010.430.016	10
27	21	5010.130.021	21 x 27	19,5	25	5010.430.021	10
36	29	5010.130.029	29 x 36	26,5	25	5010.430.029	2
45	36	5010.130.036	38 x 45	36,0	20	5010.430.036	2
56	48	5010.130.048	48 x 56	45,5	10	5010.430.048	2

US-P

 IP 40 ... IP 65
 -40°C ... +125°C | +250°C [MSD]

AD OD		FLEXA No.				FLEXA No.	
		FLEXAgraff®-AS FLEXAgraff®-VA				Kleine VPE small packing units	
ø	PG DIN 40420	[IP 40]	mm	øl mm	St. pcs.	[IP 40]	St. pcs.
10	7	5010.127.007	8 x 10	6,5	50	5010.427.007	10
14	9	5010.139.009	12 x 14	10,5	50	5010.439.009	10
17	11	5010.127.011	14 x 17	12,5	50	5010.427.011	10
19	13,5	5010.127.013	16 x 19	14,5	50	5010.427.013	10
21	16	5010.127.016	18 x 21	16,5	50	5010.427.016	10
27	21	5010.139.021	24 x 27	21,5	25	5010.439.021	10
36	29	5010.127.029	31 x 36	29,5	25	5010.427.029	2
45	36	5010.127.036	40 x 45	38,0	20	5010.427.036	2
56	48	5010.127.048	51 x 56	49,0	10	5010.427.048	2

AD OD		FLEXA No.			FLEXA No.			
		FLEXAgraff®-SI-ASF						
ø	PG DIN 40420	[IP 66]	mm	øl mm	St. pcs.			
14	9	5010.137.009	10 x 14	9,0	50			
17	11	5010.137.011	12 x 17	10,5	50			
21	16	5010.135.016	16 x 21	14,5	50			
27	21	5010.601.021	21 x 27	19,5	25			
36	29	5010.137.029	27 x 36	26,5	25			
45	36	5010.137.036	36 x 45	34,5	20			
56	48	5010.137.048	47 x 56	45,5	10			

ø	PG DIN 40420	[IP 40]	mm	øl mm	[IP 40]	mm	øl mm	St. pcs.
10	7	5011.128.007	7 x 10	6,0	5011.128.007	7 x 10	6,0	50
14	9	5011.127.009	11 x 14	10,0	5011.128.009	10 x 14	8,5	50
17	11	5011.128.011	13 x 17	11,5	5011.128.011	13 x 17	11,5	50
19	13,5	5011.128.013	15 x 19	13,5	5011.128.013	15 x 19	13,5	50
21	16	5011.128.016	17 x 21	15,5	5011.128.016	17 x 21	15,5	50
27	21	5011.140.021	23 x 27	21,5	5011.128.021	22 x 27	20,5	25
36	29	5011.128.029	29 x 36	27,5	5011.128.029	29 x 36	27,5	25
45	36	5011.128.036	38 x 45	36,5	5011.128.036	38 x 45	36,5	20
56	48	5011.128.048	49 x 56	47,5	5011.128.048	49 x 56	47,5	10

ø	PG DIN 40420	[IP 54]	mm	øl mm	[IP 54]	mm	øl mm	St. pcs.
14	9	5011.128.009	9 x 14	8,5	5011.128.009	9 x 14	8,5	50
17	11	5011.135.011	12 x 17	11,0	5011.135.011	12 x 17	11,0	50
19	13,5	5011.135.013	14 x 19	13,0	5011.135.013	14 x 19	13,0	50
21	16	5011.135.016	15 x 21	14,5	5011.135.016	16 x 21	14,5	50
27	21	5011.135.021	20 x 27	19,5	5011.601.021	21 x 27	19,5	25
36	29	5011.128.029	28 x 36	27,5	5011.137.029	28 x 36	27,5	25
45	36	5011.135.036	37 x 45	35,5	5011.135.036	37 x 45	35,5	20
56	48	5011.135.048	48 x 56	47,0	5011.135.048	48 x 56	47,0	10



🔥 IP 40 ... IP 65
 🌡️ -40°C ... +125°C | +250°C [MSD]



US2-M

Metall-Sicherheitsverschraubung
 gerade
 Innengewinde
 inkl. Innentülle und Dichtring aus TPE
 oder Messing-Druckring [MSD]

Metal connector, safety-type
 straight
 inner thread
 incl. ferrule and sealing made of TPE
 or brass thrust collar [MSD]

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-
 schlüsselfläche, Anschlussgewinde
 metrisch nach EN 60423, Sechskantdruck-
 mutter, Kunststoff-Dichtring oder
 Messing- Druckring, Innentülle aus Metall

STRUCTURE

Connector body with hexagonal wrench
 surface, connecting thread metric acc. to
 EN 60423, hexagon pressure nut,
 plastic seal or brass thrust collar,
 ferrule made of metal

MATERIAL

Gehäuse Messing vernickelt
 Druckmutter Messing vernickelt
 Dichtring TPE oder PTFE
 Druckring Messing
 Innentülle Messing

MATERIAL

Connector body nickel-plated brass
 Pressure nut nickel-plated brass
 Sealing ring TPE or PTFE
 Thrust collar brass
 Ferrule brass

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

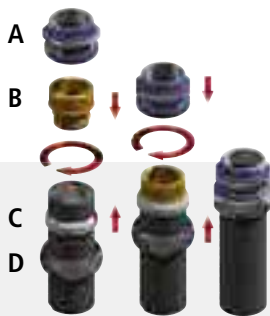
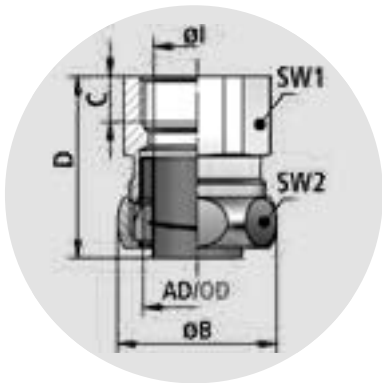
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet.
 Für EMV-Anwendung bitte die Montageanleitung beachten.

IMPORTANT

The security of the connector is only guaranteed with the corresponding ferrule.
 For emc-usage please see our assembly instructions.



- A Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B Innentülle
ferrule
- C Dichtring oder Messing-Druckring
sealing ring or brass thrust collar
- D Druckmutter
pressure nut

AD
OD



Technische Basisdaten US2-M
 Technical basic data US2-M

ø	Metr. EN 60423	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100
10	M 10 x 1,5	19,0	8,0	26,0	15	17	1,500
14	M 12 x 1,5	23,0	8,0	27,0	21	21	2,300
17	M 16 x 1,5	27,0	8,0	27,0	24	25	3,000
21	M 20 x 1,5	31,0	10,0	30,0	30	29	4,000
27	M 25 x 1,5	39,0	11,0	37,0	36	36	7,600
36	M 32 x 1,5	48,0	11,0	39,0	46	45	10,100
45	M 40 x 1,5	57,0	12,0	42,0	55	54	13,500
56	M 50 x 1,5	70,0	12,0	46,0	65	66	20,000

US2-M

🔥 IP 40 ... IP 66
 🌡️ -40°C ... +125°C | +250°C [MSD]



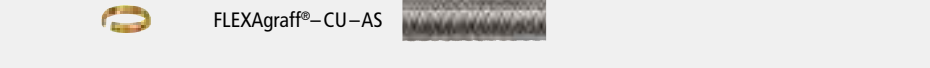
ø	Metr. EN 60423	[IP 40]	mm	ø1 mm	[IP 65]	mm	ø1 mm	St. pcs.
10	M 10 x 1,5	5012.327.010	7 x 10	7,5	5012.328.010	7 x 10	6,0	25
14	M 12 x 1,5	5012.327.012	11 x 14	7,5	5012.328.012	10 x 14	8,5	25
17	M 16 x 1,5	5012.327.016	14 x 17	11,0	5012.328.016	13 x 17	11,5	25
21	M 20 x 1,5	5012.327.020	18 x 21	14,5	5012.328.020	17 x 21	15,5	25
27	M 25 x 1,5	5012.327.025	23 x 27	19,5	5012.328.025	22 x 27	20,5	10
36	M 32 x 1,5	5012.327.032	31 x 36	27,5	5012.328.032	29 x 36	27,5	10
45	M 40 x 1,5	5012.327.040	40 x 45	35,5	5012.328.040	38 x 45	35,0	5
56	M 50 x 1,5	5012.327.050	51 x 56	47,0	5012.328.050	49 x 56	45,0	5



ø	Metr. EN 60423	[IP 40]	mm	ø1 mm	[IP 65]	mm	ø1 mm	St. pcs.
10	M 10 x 1,5	5012.327.010	8 x 10	6,5	5012.328.010	7 x 10	6,0	25
14	M 12 x 1,5	5012.339.012	12 x 14	9,0	5012.327.012	11 x 14	9,0	25
17	M 16 x 1,5	5012.327.016	14 x 17	12,5	5012.328.016	13 x 17	11,5	25
21	M 20 x 1,5	5012.327.020	18 x 21	16,5	5012.328.020	17 x 21	15,5	25
27	M 25 x 1,5	5012.339.025	24 x 27	21,0	5012.340.025	23 x 27	20,5	10
36	M 32 x 1,5	5012.327.032	31 x 36	27,5	5012.328.032	29 x 36	27,5	10
45	M 40 x 1,5	5012.327.040	40 x 45	35,0	5012.328.040	38 x 45	35,0	5
56	M 50 x 1,5	5012.327.050	51 x 56	45,0	5012.328.050	49 x 56	45,0	5



ø	Metr. EN 60423	[IP 54]	mm	ø1 mm	[IP 40]	mm	ø1 mm	St. pcs.
10	M 10 x 1,5				5018.328.010	7 x 10	6,0	10
14	M 12 x 1,5	5018.328.012	9 x 14	7,5	5018.328.012	10 x 14	8,5	10
17	M 16 x 1,5	5018.335.016	12 x 17	11,0	5018.328.016	13 x 17	11,5	10
21	M 20 x 1,5	5018.335.020	15 x 21	14,5	5018.328.020	17 x 21	15,5	10
27	M 25 x 1,5	5018.335.025	20 x 27	19,5	5018.328.025	22 x 27	20,5	10
36	M 32 x 1,5	5018.328.032	28 x 36	27,5	5018.328.032	29 x 36	27,5	10
45	M 40 x 1,5	5018.335.040	37 x 45	35,5	5018.328.040	38 x 45	35,0	5
56	M 50 x 1,5	5018.335.050	48 x 56	47,0	5018.328.050	49 x 56	45,0	5



ø	Metr. EN 60423	[IP 40]	mm	ø1 mm	St. pcs.
10	M 10 x 1,5	5018.328.010	7 x 10	6,0	10
14	M 12 x 1,5	5018.327.012	11 x 14	9,0	10
17	M 16 x 1,5	5018.328.016	13 x 17	11,5	10
21	M 20 x 1,5	5018.328.020	17 x 21	15,5	10
27	M 25 x 1,5	5018.340.025	23 x 27	20,5	10
36	M 32 x 1,5	5018.328.032	29 x 36	27,5	10
45	M 40 x 1,5	5018.328.040	38 x 45	35,0	5
56	M 50 x 1,5	5018.328.050	49 x 56	45,0	5



🔥 IP 40 ... IP 65
 🌡️ -40°C ... +125°C | +250°C [MSD]



USD-R-M

Metall-Sicherheitsverschraubung
 gerade
 Außengewinde drehbar
 inkl. Innentülle, Dichtring aus TPE
 oder Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type
 straight
 turnable outer thread
 incl. ferrule, sealing made of TPE
 or brass thrust collar [MSD] and O-ring

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-
 schlüsselfläche, Anschlussgewinde
 metrisch nach EN 60423, Sechskantdruck-
 mutter, Kunststoff-Dichtring oder Messing-
 Druckring, O-Ring, Innentülle aus Metall

STRUCTURE

Connector body with hexagonal wrench
 surface, connecting thread metric acc. to
 EN 60423, hexagon pressure nut,
 plastic seal or brass thrust collar, O-ring,
 ferrule made of metal

MATERIAL

Gehäuse Messing vernickelt
 Druckmutter Messing vernickelt
 Dichtring TPE oder PTFE
 Druckring Messing
 Innentülle Messing
 O-Ring NBR

MATERIAL

Connector body nickel-plated brass
 Pressure nut nickel-plated brass
 Sealing ring TPE or PTFE
 Thrust collar brass
 Ferrule brass
 O-ring NBR

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

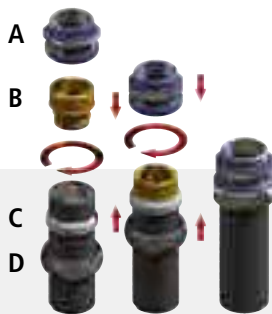
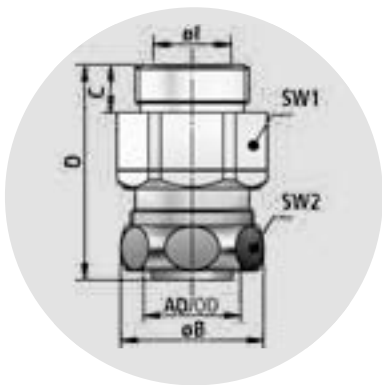
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet.
 Für EMV-Anwendung bitte die Montageanleitung beachten.

IMPORTANT

The security of the connector is only guaranteed with the corresponding ferrule.
 For emc-usage please see our assembly instructions.



- A** Verschraubungsgehäuse mit montiertem O-Ring
 connector body with mounted O-ring
- B** Innentülle
 ferrule
- C** Dichtring oder Messing-Druckring
 sealing ring or brass thrust collar
- D** Druckmutter
 pressure nut

AD
 OD



Technische Basisdaten
 Technical basic data






USD-R-M
 USD-R-M

ø	Metr. EN 60423	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100
10	M 12 x 1,5	19,0	10,0	28,0	15	17	2,400
14	M 16 x 1,5	23,0	10,0	30,0	21	21	5,000
17	M 20 x 1,5	27,0	10,0	30,0	24	25	6,400
21	M 25 x 1,5	31,0	11,0	31,0	30	29	9,500
27	M 32 x 1,5	39,0	13,0	38,0	36	36	14,900
36	M 40 x 1,5	48,0	13,0	42,0	46	45	23,900
45	M 50 x 1,5	57,0	14,0	50,0	55	54	36,200
56	M 63 x 1,5	70,0	14,0	54,0	70	66	61,000

USDR-M

 IP 40 ... IP 65
 -40°C ... +125°C | +250°C [MSD]



	SPR-AS SPR-VA		SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS	  
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ø	Metr. EN 60423	[IP 40]		[IP 65]		St. pcs.		
		mm	øl mm	mm	øl mm			
10	M 12 x 1,5	5013.327.012	8 x 10	6,5	5013.328.012	7 x 10	6,0	10
14	M 16 x 1,5	5013.327.016	11 x 14	7,5	5013.328.016	10 x 14	8,5	10
17	M 20 x 1,5	5013.327.020	14 x 17	11,0	5013.328.020	13 x 17	11,5	10
21	M 25 x 1,5	5013.327.025	18 x 21	14,5	5013.328.025	17 x 21	15,5	10
27	M 32 x 1,5	5013.327.032	23 x 27	19,5	5013.328.032	22 x 27	20,5	10
36	M 40 x 1,5	5013.327.040	31 x 36	27,5	5013.328.040	29 x 36	27,5	2
45	M 50 x 1,5	5013.327.050	40 x 45	35,5	5013.328.050	38 x 45	35,0	2
56	M 63 x 1,5	5013.327.063	51 x 56	47,0	5013.328.063	49 x 56	45,0	2

	FLEXAgraff®-AS FLEXAgraff®-VA		FLEXAgraff®-PU-AS FLEXAgraff®-PU-F	 
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ø	Metr. EN 60423	[IP 40]		[IP 65]		St. pcs.		
		mm	øl mm	mm	øl mm			
10	M 12 x 1,5	5013.327.012	8 x 10	6,5	5013.328.012	7 x 10	6,0	10
14	M 16 x 1,5	5013.339.016	12 x 14	9,0	5013.327.016	11 x 14	9,0	10
17	M 20 x 1,5	5013.327.020	14 x 17	12,5	5013.328.020	13 x 17	11,5	10
21	M 25 x 1,5	5013.327.025	18 x 21	16,5	5013.328.025	17 x 21	15,5	10
27	M 32 x 1,5	5013.339.032	24 x 27	21,0	5013.340.032	23 x 27	20,5	10
36	M 40 x 1,5	5013.327.040	31 x 36	27,5	5013.328.040	29 x 36	27,5	2
45	M 50 x 1,5	5013.327.050	40 x 45	35,0	5013.328.050	38 x 45	35,0	2
56	M 63 x 1,5	5013.327.063	51 x 56	45,0	5013.328.063	49 x 56	45,0	2

	AIRflex®-KUW-EDU		SPR-CU-AS SPR-EDU-AS	 
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ø	Metr. EN 60423	[IP 54]		[IP 40]		St. pcs.		
		mm	øl mm	mm	øl mm			
10	M 12 x 1,5			5014.328.012	7 x 10	6,0	10	
14	M 16 x 1,5	5014.328.016	9 x 14	8,5	5014.328.016	10 x 14	8,5	10
17	M 20 x 1,5	5014.335.020	12 x 17	11,0	5014.328.020	13 x 17	11,5	10
21	M 25 x 1,5	5014.335.025	15 x 21	14,5	5014.328.025	17 x 21	15,5	10
27	M 32 x 1,5	5014.335.032	20 x 27	19,5	5014.328.032	22 x 27	20,5	10
36	M 40 x 1,5	5014.328.040	28 x 36	27,5	5014.328.040	29 x 36	27,5	2
45	M 50 x 1,5	5014.335.050	37 x 45	35,0	5014.328.050	38 x 45	35,0	2
56	M 63 x 1,5	5014.335.063	48 x 56	45,0	5014.328.063	51 x 56	45,0	2

	FLEXAgraff®-CU-AS			
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ø	Metr. EN 60423	[IP 40]		St. pcs.	
		mm	øl mm		
10	M 12 x 1,5	5014.328.012	7 x 10	6,0	10
14	M 16 x 1,5	5014.327.016	11 x 14	9,0	10
17	M 20 x 1,5	5014.328.020	13 x 17	11,5	10
21	M 25 x 1,5	5014.328.025	17 x 21	15,5	10
27	M 32 x 1,5	5014.340.032	23 x 27	20,5	10
36	M 40 x 1,5	5014.328.040	29 x 36	27,5	2
45	M 50 x 1,5	5014.328.050	38 x 45	35,0	2
56	M 63 x 1,5	5014.328.063	49 x 56	45,0	2



IP 40 ... IP 65
-40°C ... +100°C



USZ-M

Metall-Sicherheitsverschraubung gerade
Außengewinde
Zugentlastung
inkl. Innentülle, Dichtring aus TPE oder Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type straight
outer thread
strain relief
incl. ferrule, sealing made of TPE or brass thrust collar [MSD] and O-ring

KONSTRUKTION

Verschraubungsgehäuse mit Sechskantschlüsselfläche, Anschlussgewinde metrisch nach EN 60423, Sechskant-Druckmutter, Kunststoff-Dichtring oder Messing-Druckring, O-Ring, Innentülle aus Metall

STRUCTURE

Connector body with hexagonal wrench surface, connecting thread metric acc. to EN 60423, hexagon pressure nut, plastic seal or brass thrust collar, O-ring, ferrule made of metal

MATERIAL

Gehäuse Messing vernickelt
Druckmutter Messing vernickelt
Dichtring TPE oder PTFE
Druckring Messing
Zwischenstück Messing vernickelt
Dichteinsatz TPE
Innentülle Messing
O-Ring NBR

MATERIAL

Connector body nickel-plated brass
Pressure nut nickel-plated brass
Sealing ring TPE or PTFE
Thrust collar brass
Intermediate part nickel-plated brass
Sealing insert TPE
Ferrule brass
O-ring NBR

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

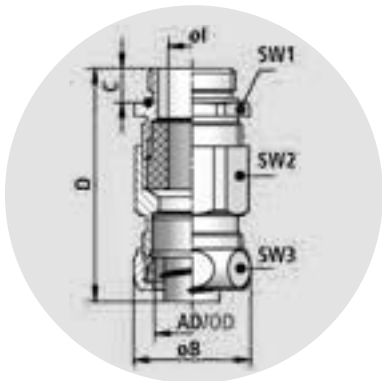
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet.
Für EMV-Anwendung bitte die Montageanleitung beachten.

IMPORTANT

The security of the connector is only guaranteed with the corresponding ferrule.
For emc-usage please see our assembly instructions.



- A Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B Innentülle
ferrule
- C Dichtring oder Messing-Druckring
sealing ring or brass thrust collar
- D Druckmutter
pressure nut



















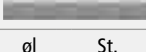




Technische Basisdaten USZ-M
Technical basic data USZ-M

ø	Metr. EN 60423	mm	øB mm	C mm	D mm	SW1 mm	SW2 mm	SW3 mm	kg 100
10	M 12 x 1,5	5,0 - 6,5	19,0	10,0	43,0	15	16	17	2,090
14	M 16 x 1,5	6,0 - 10,5	23,0	10,0	48,0	18	21	21	4,070
17	M 20 x 1,5	8,0 - 14,5	27,0	10,0	48,0	24	24	25	5,390
21	M 20 x 1,5	8,0 - 14,5	31,0	10,0	49,0	24	29	29	6,990
21	M 25 x 1,5	12,5 - 19,0	31,0	11,0	54,0	30	30	29	7,210
27	M 25 x 1,5	12,5 - 19,0	39,0	11,0	61,0	30	36	36	13,200
27	M 32 x 1,5	17,0 - 25,5	39,0	13,0	65,0	36	36	36	14,650
36	M 40 x 1,5	24,0 - 33,0	48,0	13,0	68,0	46	46	45	23,870
45	M 50 x 1,5	33,0 - 42,0	57,0	14,0	74,0	55	55	54	31,150
56	M 63 x 1,5	40,0 - 52,0	70,0	14,0	81,0	70	70	66	34,000

USZ-M

 IP 40 ... IP 65
 -40°C ... +100°C

AD OD		FLEXA No.			FLEXA No.			
		SPR-AS SPR-VA			SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS			
ø	Metr. EN 60423	[IP 40]	mm	øl mm	[IP 65]	mm	øl mm	St. pcs.
10	M 12 x 1,5	5016.327.112	8 x 10	6,5	5016.328.112	7 x 10	6,0	10
14	M 16 x 1,5	5016.327.116	11 x 14	9,0	5016.328.116	10 x 14	8,5	10
17	M 20 x 1,5	5016.327.120	14 x 17	12,5	5016.328.120	13 x 17	11,5	10
21	M 20 x 1,5	5016.327.020	18 x 21	16,0	5016.328.020	17 x 21	15,5	10
21	M 25 x 1,5	5016.327.125	18 x 21	16,0	5016.328.125	17 x 21	15,5	10
27	M 25 x 1,5	5016.327.025	23 x 27	21,0	5016.328.025	22 x 27	20,5	10
27	M 32 x 1,5	5016.327.132	23 x 27	21,0	5016.328.132	22 x 27	20,5	10
36	M 40 x 1,5	5016.327.140	31 x 36	27,5	5016.328.140	29 x 36	27,5	5
45	M 50 x 1,5	5016.327.150	40 x 45	35,0	5016.328.150	38 x 45	35,0	5
56	M 63 x 1,5	5016.327.163	51 x 56	45,0	5016.328.163	49 x 56	45,0	5
		FLEXAgraff®-AS FLEXAgraff®-VA			FLEXAgraff®-PU-AS FLEXAgraff®-PU-F			
ø	Metr. EN 60423	[IP 40]	mm	øl mm	[IP 65]	mm	øl mm	St. pcs.
10	M 12 x 1,5	5016.327.112	8 x 10	6,5	5016.328.112	7 x 10	6,0	10
14	M 16 x 1,5	5016.339.116	12 x 14	9,0	5016.327.116	11 x 14	9,0	10
17	M 20 x 1,5	5016.327.120	14 x 17	12,5	5016.328.120	13 x 17	11,5	10
21	M 20 x 1,5	5016.327.020	18 x 21	16,0	5016.328.020	17 x 21	15,5	10
21	M 25 x 1,5	5016.327.125	18 x 21	16,0	5016.328.125	17 x 21	15,5	10
27	M 25 x 1,5	5016.339.025	24 x 27	21,0	5016.340.025	23 x 27	20,5	10
27	M 32 x 1,5	5016.339.132	24 x 27	21,0	5016.340.132	23 x 27	20,5	10
36	M 40 x 1,5	5016.327.140	31 x 36	27,5	5016.328.140	29 x 36	27,5	5
45	M 50 x 1,5	5016.327.150	40 x 45	35,0	5016.328.150	38 x 45	35,0	5
56	M 63 x 1,5	5016.327.163	51 x 56	45,0	5016.328.163	49 x 56	45,0	5
		AIRflex®-KUW-EDU			SPR-CU-AS SPR-EDU-AS			
ø	Metr. EN 60423	[IP 54]	mm	øl mm	[IP 40]	mm	øl mm	St. pcs.
10	M 12 x 1,5				5017.328.112	7 x 10	6,0	10
14	M 16 x 1,5	5017.328.116	9 x 14	9,0	5017.328.116	10 x 14	8,5	10
17	M 20 x 1,5	5017.335.120	12 x 17	12,5	5017.328.120	13 x 17	11,5	10
21	M 20 x 1,5	5017.335.020	15 x 21	16,0	5017.328.020	17 x 21	15,5	10
21	M 25 x 1,5	5017.335.125	15 x 21	16,0	5017.328.125	17 x 21	15,5	10
27	M 25 x 1,5	5017.335.025	20 x 27	21,0	5017.328.025	22 x 27	20,5	10
27	M 32 x 1,5	5017.335.032	20 x 27	21,0	5017.328.132	22 x 27	20,5	10
36	M 40 x 1,5	5017.328.140	28 x 36	27,5	5017.328.140	29 x 36	27,5	5
45	M 50 x 1,5	5017.335.150	37 x 45	35,0	5017.328.150	38 x 45	35,0	5
56	M 63 x 1,5	5017.335.163	48 x 56	45,0	5017.328.163	49 x 56	45,0	5
		FLEXAgraff®-CU-AS						
ø	Metr. EN 60423	[IP 40]	mm	øl mm				St. pcs.
10	M 12 x 1,5	5017.328.112	7 x 10	6,0				10
14	M 16 x 1,5	5017.327.116	11 x 14	9,0				10
17	M 20 x 1,5	5017.328.120	13 x 17	11,0				10
21	M 20 x 1,5	5017.328.020	17 x 21	15,5				10
21	M 25 x 1,5	5017.328.125	17 x 21	15,5				10
27	M 25 x 1,5	5017.340.025	23 x 27	20,5				10
27	M 32 x 1,5	5017.340.132	23 x 27	20,5				10
36	M 40 x 1,5	5017.328.140	29 x 36	27,5				5
45	M 50 x 1,5	5017.328.150	38 x 45	35,0				5
56	M 63 x 1,5	5017.328.163	49 x 56	45,0				5



IP 40
-40°C ... +100°C

USZ-EX-M

Metall-Sicherheitsverschraubung gerade, Außengewinde, Zugentlastung für Einsatz im EX-Bereich inkl. Innentülle, Dichtring aus TPE oder Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type straight, outer thread, strain relief for application in EX-Area incl. ferrule, sealing made of TPE or brass thrust collar [MSD] and O-ring

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-schlüsselfläche, Anschlussgewinde metrisch nach EN 60423, Sechskantdruckmutter, Kunststoff-Dichtring oder Messing-Druckring, O-Ring, Innentülle aus Metall

STRUCTURE



Connector body with hexagonal wrench surface, connecting thread metric acc. to EN 60423, hexagon pressure nut, plastic seal or brass thrust collar, O-ring, ferrule made of metal



MATERIAL

Gehäuse	Messing vernickelt
Druckmutter	Messing vernickelt
Klemmring	TPE
Druckring	Messing
Innentülle	Messing
Zwischenstück	Messing vernickelt
Dichteinsatz	TPE
Zwischenstutzen	Messing vernickelt
O-Ring	NBR

MATERIAL

Connector body	nickel-plated brass
Pressure nut	nickel-plated brass
Clamp collar	TPE
Thrust collar	brass
Ferrule	brass
Intermediate part	nickel-plated brass
Sealing insert	TPE
Lower part	nickel-plated brass
O-ring	NBR

Kennzeichnung der Verschraubung
 II 2 G Ex e II
 II 2 D Ex tD A21 IP 66 | IP68

Marking of the cable gland
 II 2 G Ex e II
 II 2 D Ex tD A21 IP 66 | IP68

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest
- erhöhte Sicherheit „e“ nach EN 60079-0:2014, EN 60079-7:2016, EN 61241-0:2006 und EN 61241-1:2004

PROPERTIES

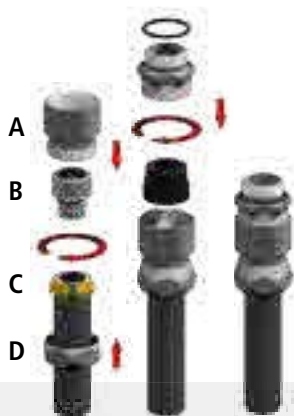
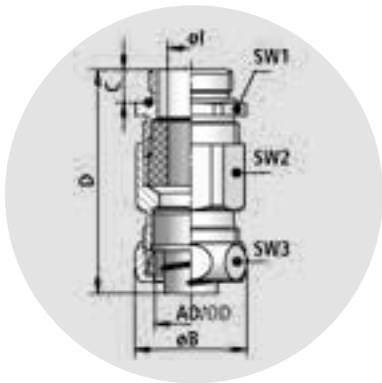
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof
- increased safety "e" acc. to EN 60079-0:2014, EN 60079-7:2016, EN 61241-0:2006 and EN 61241-1:2004

WICHTIG

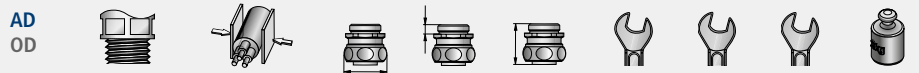
Es dürfen nur metallische oder metallisch umflochtene Schutzschläuche ohne äußeren Kunststoffmantel verwendet werden.

IMPORTANT

Only metallic or metal-braided protection conduits without exterior plastic sheathing must be used.



- A Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B Innentülle
ferrule
- C Dichtring oder Messing-Druckring
sealing ring or brass thrust collar
- D Druckmutter
pressure nut



Technische Basisdaten USZ-EX-M
 Technical basic data USZ-EX-M

ø	Metr. EN 60423	mm	øB mm	C mm	D mm	SW1 mm	SW2 mm	SW3 mm	kg 100
17	M 20 x 1,5	9,5 - 11,0	27,0	10,0	48,0	24	24	25	6,600
21	M 20 x 1,5	12,0 - 15,0	31,0	10,0	49,0	24	29	29	9,700
21	M 25 x 1,5	13,0 - 16,0	31,0	11,0	54,0	30	30	29	9,900
27	M 32 x 1,5	19,0 - 21,0	39,0	13,0	65,0	36	36	36	16,600

USZ-EX-M

IP 40
-40°C ... +100°C



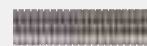
AD OD		FLEXA No.		FLEXA No.			
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SPR-AS
SPR-VA



FLEXAgraff®-AS
FLEXAgraff®-VA



ø	Metr. EN 60423	[IP 40]	mm	øl mm	[IP 40]	mm	øl mm	St. pcs.
17	M 20 x 1,5	5023.327.120	14 x 17	12,5	5023.327.120	14 x 17	12,5	10
21	M 20 x 1,5	5023.327.020	18 x 21	16,0	5023.327.020	18 x 21	16,0	10
21	M 25 x 1,5	5023.327.125	18 x 21	16,0	5023.327.125	18 x 21	16,0	10
27	M 32 x 1,5	5023.327.132	23 x 27	21,0	5023.339.132	24 x 27	21,0	10



SPR-CU-AS
SPR-EDU-AS



ø	Metr. EN 60423	[IP 40]	mm	øl mm		St. pcs.
17	M 20 x 1,5	5024.328.120	13 x 17	11,5		10
21	M 20 x 1,5	5024.328.020	17 x 21	15,5		10
21	M 25 x 1,5	5024.328.125	17 x 21	15,5		10
27	M 32 x 1,5	5024.328.132	22 x 27	20,5		10



IP 67
-40°C ... +125°C



USD

EMV Metallverschraubung
gerade
Außengewinde
inkl. Innentülle und O-Ring

EMC metal connector
straight
outer thread
incl. ferrule and O-Ring

KONSTRUKTION

Gehäuse mit Sechskantschlüsselfläche,
feststehendes Anschlussgewinde,
verlängerte Sechskantdruckmutter,
Dichtring, Messing-Druckring,
Innentülle und O-Ring

STRUCTURE

Connector body with hexagonal wrench
surface, longer hexagonal pressure nut,
sealing ring, brass thrust collar
ferrule and O-ring

MATERIAL

Gehäuse Messing vernickelt
Druckmutter Messing vernickelt
Dichtring TPE
Druckring Messing
Innentülle Messing
O-Ring NBR

MATERIAL

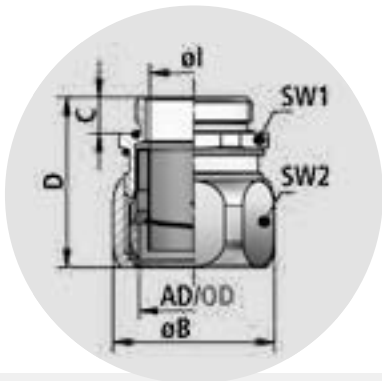
Connector body nickel-plated brass
Pressure nut nickel-plated brass
Sealing ring TPE
Thrust collar brass
Ferrule brass
O-ring NBR

EIGENSCHAFTEN

- hoher Staub- / Flüssigkeitsschutz
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest
- flüssigkeitsdichte EMV-Schutzverschraubung durch verlängerte Druckmutter

PROPERTIES

- highly watertight and dust proof
- correct grounding
- covering of the conduit ends
- vibrationproof and tensionproof
- liquid tight emc connector due to longer pressure nut



- A Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B MS-Innentülle
brass ferrule
- C EMV-Messingdruckring
emc brass thrust collar
- D TPE-Dichtring
TPE sealing ring
- E Druckmutter
pressure nut

AD
OD



Technische Basisdaten USD-M
Technical basic data USD-M

ø	Metr. EN 60423	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100
14	M 12 x 1,5	23,0	10,0	33,0	19	21	2,800
17	M 16 x 1,5	27,0	10,0	33,0	23	25	3,800
21	M 20 x 1,5	31,0	10,0	33,0	27	29	5,000
27	M 25 x 1,5	39,0	11,0	42,0	34	36	9,100
36	M 32 x 1,5	48,0	13,0	47,0	43	45	10,800
45	M 40 x 1,5	57,0	13,0	47,0	52	54	18,600
56	M 50 x 1,5	70,0	14,0	52,0	63	66	23,400

Technische Basisdaten USD-P
Technical basic data USD-P

ø	PG DIN 40430	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100
14	9	23,0	7,0	30,0	19	21	2,800
17	11	27,0	7,0	30,0	23	25	3,700
19	13,5	29,0	7,0	30,0	25	27	4,980
21	16	31,0	7,0	30,0	27	29	4,800
27	21	39,0	10,0	41,0	34	36	9,000
36	29	48,0	10,0	44,0	43	45	9,700
45	36	57,0	10,0	44,0	52	54	20,000
56	48	70,0	10,0	48,0	63	66	21,000

USD

MONTAGEANLEITUNG

1. Schutzschlauch FLEXAgraff-CU-PU mit geeigneter Schneidvorrichtung trennen.
2. Verschraubung demontieren und Druckmutter über das Schutzschlauchende schieben.
3. TPE Dichtring mit abgeschrägter Seite in Richtung Druckmutter über den Schutzschlauch schieben.
4. Den Kunststoffmantel vorsichtig in der 1,5-fachen Breite des Messing-Druckrings abmanteln.
5. Überstehende CU-Flechtäden mit einer Schere sauber und plan zum Schlauch entfernen.
6. EMV-Messingdruckring seitenrichtig mit gerader Seite gemäß Bildfolge auf den Schutzschlauch schieben.
7. Innentülle bis zum Anschlag in Schutzschlauch eindrehen (Hilfswerkzeug auf Anfrage).
8. Verschraubungsgehäuse mit aufmontierten Teilen zusammenfügen und zur guten Kontaktierung mit Hilfe von Werkzeug (Maulschlüssel) fest verschrauben.

ASSEMBLY INSTRUCTION

1. Cut the FLEXAgraff-CU-PU hose (emc-safe) with appropriate cutting tool.
2. Dismount connector and push pressure screw over protection hose.
3. Push the TPE sealing over the conduit with the inclined side facing the pressure screw.
4. Strip the plastic jacket off the conduit with care for the 1.5 fold width of the brass-thrust collar.
5. Cut any remaining CU braiding. Make sure it is a clean cut which leaves the braiding at the exact length of the hose.
6. Push the EMC brass thrust collar (cone formed end in the right direction) over the protective tube as shown in picture.
7. Screw ferrule into the protection hose until its end (auxiliary tool on demand).
8. Combine the connector body with the mounted parts and tighten the connection with a hexagon wrench for optimal contact.

IP 67
-40° C ... +125° C

AD
OD

FLEXA No.



USD-M



FLEXAgraff®-CU-PU

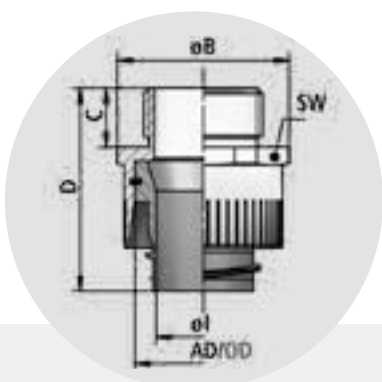
ø	Metr. EN 60423	[IP 67]	mm	øl mm	St. pcs.
14	M 12 x 1,5	5015.327.012	11,0 x 15,0	9,0	10
17	M 16 x 1,5	5015.328.016	13,0 x 18,0	11,5	10
21	M 20 x 1,5	5015.328.020	17,0 x 21,0	15,5	10
27	M 25 x 1,5	5015.340.025	23,0 x 28,0	20,5	10
36	M 32 x 1,5	5015.328.032	29,0 x 37,0	27,5	2
45	M 40 x 1,5	5015.328.040	38,0 x 46,0	35,0	2
56	M 50 x 1,5	5015.328.050	49,0 x 57,0	45,0	2

USD-P

FLEXAgraff®-CU-PU

ø	PG DIN 40430	[IP 67]	mm	øl mm	St. pcs.
14	9	5015.127.009	11,0 x 15,0	10,0	10
17	11	5015.128.011	13,0 x 18,0	11,5	10
21	16	5015.128.016	17,0 x 22,0	15,5	10
27	21	5015.140.021	23,0 x 28,0	21,5	10
36	29	5015.128.029	29,0 x 37,0	27,5	2
45	36	5015.128.036	38,0 x 46,0	36,5	2
56	48	5015.128.048	49,0 x 57,0	47,5	2

 IP 40
 -40°C ... +250°C



LI

Metallverschraubung
 gerade, Außengewinde
 integrierte Innentülle, drehbar

Metal connector
 straight, outer thread
 integrated ferrule, turnable

KONSTRUKTION

Rundes Verschraubungsgehäuse
 drehbar, Sechskantschlüsselfläche,
 Außengewinde metrisch nach
 EN 60423 oder PG nach DIN 40430
 einschnappbare Schlauchgewindetülle

STRUCTURE

Round connector body
 turnable, hexagonal wrench surface
 outer thread metric acc. to EN 60423
 or PG acc. to DIN 40430
 snap in threaded ferrule

MATERIAL

Gehäuse Messing vernickelt
 Innentülle Messing blank
 Sicherungsring Federstahl

MATERIAL

Connector body nickel-plated brass
 Ferrule polished brass
 Locking ring spring steel

EIGENSCHAFTEN

- integrierte Schlauchdreh Sperre
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

- integrated conduit screw out
- covering of the conduit ends
- vibrationproof and tensionproof

MONTAGE

Innentülle auf das Schlauchende drehen
 und danach in das Verschraubungs-
 gehäuse einstecken.

ASSEMBLY

Screw the ferrule into the end of the
 conduit and push the connector body
 into the ferrule.

AD
OD



FLEXA No.



FLEXA No.

LI-M

Kleine VPE
small packing unit

ø	Metr. EN 60423	[IP 40]	øl mm	øB mm	C mm	D mm	SW mm	kg/100	St. pcs.	St. pcs.
10	M 10 x 1,0	5010.012.010	6,0	17,0	10,0	32,0	15	1,660	50	5010.712.010 10
14	M 12 x 1,5	5010.012.012	9,0	21,0	10,0	33,0	19	2,240	50	5010.712.012 10
17	M 16 x 1,5	5010.012.016	12,0	25,0	10,0	33,0	23	3,200	50	5010.712.016 10
21	M 20 x 1,5	5010.012.020	15,5	29,0	10,0	35,0	27	4,260	50	5010.712.020 10
27	M 25 x 1,5	5010.012.025	20,5	37,0	11,0	36,0	34	7,000	25	5010.712.025 10
36	M 32 x 1,5	5010.012.032	27,5	46,0	13,0	43,0	43	12,080	25	5010.712.032 2
45	M 40 x 1,5	5010.012.040	35,0	62,0	13,0	43,0	54	13,500	25	5010.712.040 2
56	M 50 x 1,5	5010.012.050	45,0	76,0	14,0	44,0	66	25,600	10	5010.712.050 2

LI-P

Kleine VPE
small packing unit

ø	PG DIN 40430	[IP 40]	øl mm	øB mm	C mm	D mm	SW mm	kg/100	St. pcs.	St. pcs.
10	7	5010.010.007	6,0	16,0	7,0	29,0	15	1,580	50	5010.710.007 10
14	9	5010.010.009	9,0	21,0	7,0	30,0	19	2,240	50	5010.710.009 10
17	11	5010.010.011	12,0	24,5	7,0	30,0	23	2,920	50	5010.710.011 10
19	13,5	5010.010.013	13,5	27,0	7,0	30,0	25	3,560	50	5010.710.013 10
21	16	5010.010.016	15,5	29,0	7,0	32,0	27	4,040	50	5010.710.016 10
27	21	5010.010.021	20,5	37,0	10,0	35,0	34	6,760	25	5010.710.021 10
36	29	5010.010.029	27,5	46,0	10,0	40,0	43	11,000	25	5010.710.029 2
45	36	5010.010.036	36,5	58,0	10,0	40,0	55	13,500	25	5010.710.036 2
56	48	5010.010.048	47,0	68,0	10,0	40,0	66	19,500	10	5010.710.048 2



A Verschraubungsgehäuse
connector body

B Innentülle
ferrule

LIF

Metallverschraubung
gerade
Außengewinde

Metal connector
straight
outer thread

IP 40
-40°C ... +250°C

KONSTRUKTION

Rundes Verschraubungsgehäuse
mit Sechskantschlüsselfläche,
feststehendes Außengewinde metrisch
nach EN 60423 oder PG nach DIN 40430

STRUCTURE

Round connector body
hexagonal wrench surface
fixed outer thread metric acc. to
EN 60423 or PG acc. to DIN 40430

MATERIAL

Gehäuse Messing vernickelt
Abdeckhülse Messing vernickelt

MATERIAL

Connector body nickel-plated brass
Cover sleeve nickel-plated brass

EIGENSCHAFTEN

- integrierte Schlauchdrehesperre
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

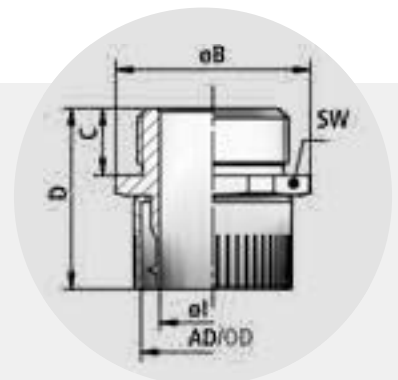
- integrated conduit screw out
- covering of the conduit ends
- vibrationproof and tensionproof

MONTAGE

Abdeckhülse auf das Schlauchende
stecken und danach das Verschraubungs-
gehäuse eindrehen

ASSEMBLY

Push the cover sleeve on the end of the
conduit and screw the connector body in
the conduit



AD
OD



FLEXA No.



FLEXA No.



LIF-M

Kleine VPE
small packing unit

ø	Metr. EN 60423	[IP 40]	øI mm	øB mm	C mm	D mm	SW mm	kg 100	St. pcs.	St. pcs.
10	M 12 x 1,5	5801.310.012	5,9	16,0	10,0	26,0	15	1,550	50	5801.810.012 10
14	M 16 x 1,5	5801.314.016	8,9	21,0	10,0	27,0	19	2,400	50	5801.814.016 10
17	M 16 x 1,5	5801.317.016	11,0	25,0	10,0	27,0	23	3,000	50	5801.817.016 10
17	M 20 x 1,5	5801.317.020	12,0	25,0	10,0	27,0	23	2,900	50	5801.817.020 10
21	M 20 x 1,5	5801.321.020	15,0	29,0	10,0	27,0	27	3,800	50	5801.821.020 10
27	M 25 x 1,5	5801.327.025	20,0	37,0	11,0	30,5	34	6,300	25	5801.827.025 10
36	M 32 x 1,5	5801.336.032	27,5	45,6	13,0	33,0	43	8,100	25	5801.836.032 2
45	M 40 x 1,5	5801.345.040	35,0	59,0	13,0	33,0	54	13,300	25	5801.845.040 2
56	M 50 x 1,5	5801.356.050	45,0	69,0	14,0	34,0	66	18,500	10	5801.856.050 2

LIF-P

Kleine VPE
small packing unit

ø	PG DIN 40430	[IP 40]	øI mm	øB mm	C mm	D mm	SW mm	kg 100	St. pcs.	St. pcs.
10	7	5801.010.007	5,9	16,0	10,0	26,0	15	1,600	50	5801.410.007 10
14	9	5801.014.009	8,9	21,0	10,0	27,0	19	2,400	50	5801.414.009 10
17	11	5801.017.011	12,0	25,0	10,0	27,0	23	3,100	50	5801.417.011 10
19	13,5	5801.019.013	14,0	27,0	10,0	27,0	25	3,200	50	5801.419.013 10
21	16	5801.021.016	15,9	29,0	10,0	27,0	27	3,900	50	5801.421.016 10
27	21	5801.027.021	20,4	37,0	11,0	30,6	34	6,200	25	5801.427.021 10
36	29	5801.036.029	27,5	45,6	13,0	33,0	43	8,800	25	5801.436.029 2
45	36	5801.045.036	36,6	59,0	13,0	33,0	54	11,750	25	5801.445.036 2
56	48	5801.056.048	47,5	69,0	13,5	33,5	66	16,400	10	5801.456.048 2



A Verschraubungsgehäuse
connector body
B Abdeckhülse
cover sleeve

♦ IP 40 ... IP 66
⌄ -40°C ... +125°C | +250°C [MSD]

USW-M

Metall-Sicherheitsverschraubung
 90° Winkel
 Außengewinde
 inkl. Innentülle, Dichtring oder
 Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type
 90° elbow
 outer thread
 incl. ferrule, sealing or
 brass thrust collar [MSD] and O-ring

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-
 schlüsselfläche, Anschlussgewinde
 metrisch nach EN 60423, Sechskantdruck-
 mutter, Kunststoff-Dichtring oder
 Messing-Druckring, zur Aufnahme der
 Innentülle aus Metall / Kunststoff

STRUCTURE

Connector body with hexagonal wrench
 surface, connecting thread metric
 acc. to EN 60423, hexagon pressure nut,
 plastic seal or brass thrust collar, to receive
 FLEXA ferrule made of metal / plastics

MATERIAL

Gehäuse	Messing vernickelt
Druckmutter	Messing vernickelt
Dichtring	TPE oder PTFE
Druckring	Messing
Innentülle	Messing Kunststoff
O-Ring	NBR

MATERIAL

Connector body	nickel-plated brass
Pressure nut	nickel-plated brass
Sealing ring	TPE or PTFE
Thrust collar	brass
Ferrule	brass plastics
O-ring	NBR

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

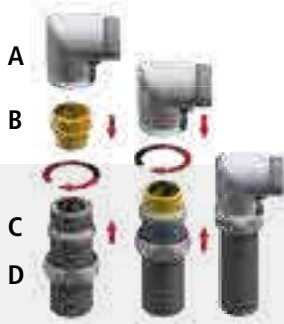
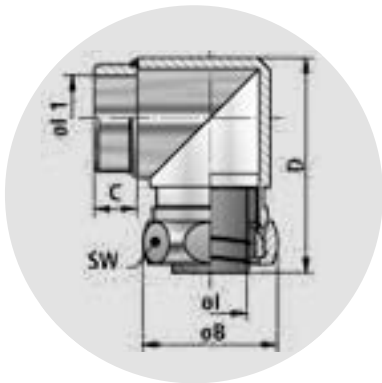
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet. Für EMV-Verwendung bitte die Montageanleitung beachten.

IMPORTANT

The security of the connector is only guaranteed with the corresponding ferrule. For emc-usage please see our assembly instructions.



- A** Verschraubungsgehäuse mit montiertem O-Ring
 connector body with mounted O-ring
B Innentülle
 ferrule
C Dichtring oder Messing-Druckring
 sealing ring or brass thrust collar
D Druckmutter
 pressure nut

AD
OD






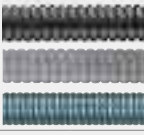












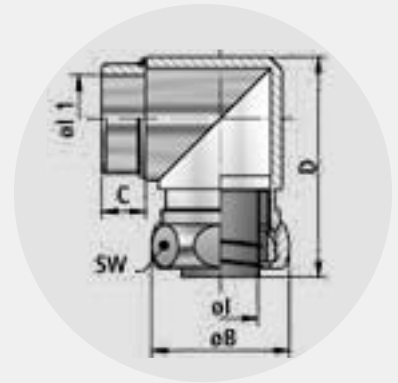
Technische Basisdaten USW-M
 Technical basic data USW-M

ø	Metr. EN 60423	øB mm	C mm	D mm	SW mm	kg/100
10	M 12 x 1,5	19,0	8,0	32,0	17	2,800
14	M 16 x 1,5	23,0	8,0	36,0	21	3,600
17	M 20 x 1,5	27,0	8,0	38,0	25	5,900
21	M 25 x 1,5	31,0	10,0	45,0	29	10,000
27	M 32 x 1,5	39,0	10,0	57,0	36	13,100
36	M 40 x 1,5	48,0	10,0	67,0	45	20,700
45	M 50 x 1,5	57,0	12,0	77,0	54	26,900
56	M 63 x 1,5	70,0	12,0	84,0	66	32,400

USW-M

 IP 40 ... IP 66
 -40°C ... +125°C | +250°C [MSD]

AD OD		FLEXA No.			FLEXA No.			
		SPR-AS SPR-VA			SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS			
ø	Metr. EN 60423	[IP 40]	mm	ø1 mm	[IP 65]	mm	ø1 mm	St. pcs.
10	M 12 x 1,5	5010.527.012	8 x 10	6,5	5010.528.012	7 x 10	6,0	25
14	M 16 x 1,5	5010.527.016	11 x 14	10,0	5010.528.016	10 x 14	8,5	25
17	M 20 x 1,5	5010.527.020	14 x 17	12,5	5010.528.020	13 x 17	11,5	25
21	M 25 x 1,5	5010.527.025	18 x 21	16,5	5010.528.025	17 x 21	15,5	25
27	M 32 x 1,5	5010.527.032	23 x 27	21,5	5010.528.032	22 x 27	20,5	10
36	M 40 x 1,5	5010.527.040	31 x 36	29,5	5010.528.040	29 x 36	27,5	10
45	M 50 x 1,5	5010.527.050	40 x 45	38,0	5010.528.050	38 x 45	36,5	10
56	M 63 x 1,5	5010.527.063	51 x 56	48,0	5010.528.063	49 x 56	47,0	2
		FLEXAgraff®-AS FLEXAgraff®-VA			FLEXAgraff®-PU-AS FLEXAgraff®-PU-F			
ø	Metr. EN 60423	[IP 40]	mm	ø1 mm	[IP 65]	mm	ø1 mm	St. pcs.
10	M 12 x 1,5	5010.527.012	8 x 10	6,5	5010.528.012	7 x 10	6,0	25
14	M 16 x 1,5	5010.539.016	12 x 14	10,5	5010.527.016	10 x 14	10,0	25
17	M 20 x 1,5	5010.527.020	14 x 17	12,5	5010.528.020	13 x 17	11,5	25
21	M 25 x 1,5	5010.527.025	18 x 21	16,5	5010.528.025	17 x 21	15,5	25
27	M 32 x 1,5	5010.539.032	24 x 27	22,5	5010.540.032	23 x 27	21,5	10
36	M 40 x 1,5	5010.527.040	31 x 36	29,5	5010.528.040	29 x 36	27,5	10
45	M 50 x 1,5	5010.527.050	40 x 45	38,0	5010.528.050	38 x 45	36,5	10
56	M 63 x 1,5	5010.527.063	51 x 56	48,0	5010.528.063	49 x 56	47,0	2
		AIRflex®-KUW-PVC-AS AIRflex®-KUW-PU-AS AIRflex®-GRS [IP 65] AIRflex®-K			FLEXAgraff®-SI-ASF			
ø	Metr. EN 60423	[IP 54]	mm	ø1 mm	[IP 66]	mm	ø1 mm	St. pcs.
10	M 12 x 1,5	5010.530.012	7 x 10	6,0				25
14	M 16 x 1,5	5010.530.016	10 x 14	9,0	5010.537.016	10 x 14	9,0	25
17	M 20 x 1,5	5010.530.020	13 x 17	11,5	5010.537.020	12 x 17	10,5	25
21	M 25 x 1,5	5010.530.025	16 x 21	14,5	5010.535.025	16 x 21	14,5	25
27	M 32 x 1,5	5010.530.032	21 x 27	19,5	5010.501.032	21 x 27	19,5	10
36	M 40 x 1,5	5010.530.040	29 x 36	26,5	5010.537.040	27 x 36	26,5	10
45	M 50 x 1,5	5010.530.050	38 x 45	36,0	5010.537.050	36 x 45	34,5	10
56	M 63 x 1,5	5010.530.063	48 x 56	46,0	5010.537.063	47 x 56	45,5	2
		FLEXAgraff®-CU-AS			SPR-CU SPR-EDU-AS			
ø	Metr. EN 60423	[IP 40]	mm	ø1 mm	[IP 40]	mm	ø1 mm	St. pcs.
10	M 12 x 1,5	5011.528.012	7 x 10	6,0	5011.528.012	7 x 10	6,0	25
14	M 16 x 1,5	5011.527.016	11 x 14	10,0	5011.528.016	10 x 14	8,5	25
17	M 20 x 1,5	5011.528.020	13 x 17	11,5	5011.528.020	13 x 17	11,5	25
21	M 25 x 1,5	5011.528.025	17 x 21	15,5	5011.528.025	17 x 21	15,5	25
27	M 32 x 1,5	5011.540.032	23 x 27	21,5	5011.528.032	22 x 27	20,5	10
36	M 40 x 1,5	5011.528.040	29 x 36	27,5	5011.528.040	29 x 36	27,5	10
45	M 50 x 1,5	5011.528.050	38 x 45	36,5	5011.528.050	38 x 45	36,5	10
56	M 63 x 1,5	5011.528.063	49 x 56	47,0	5011.528.063	51 x 56	49,0	2
		AIRflex®-KUW-EDU			SPR-PVC-EDU-AS			
ø	Metr. EN 60423	[IP 54]	mm	ø1 mm	[IP 54]	mm	ø1 mm	St. pcs.
14	M 16 x 1,5	5011.528.016	9 x 14	8,5	5011.528.016	10 x 14	8,5	25
17	M 20 x 1,5	5011.535.020	12 x 17	11,0	5011.535.020	12 x 17	11,0	25
21	M 25 x 1,5	5011.535.025	15 x 21	14,5	5011.535.025	16 x 21	14,5	25
27	M 32 x 1,5	5011.535.032	20 x 27	19,5	5011.501.032	21 x 27	19,5	10
36	M 40 x 1,5	5011.528.040	28 x 36	27,5	5011.528.040	28 x 36	27,5	10
45	M 50 x 1,5	5011.535.050	37 x 45	35,5	5011.535.050	37 x 45	35,5	10
56	M 63 x 1,5	5011.535.063	48 x 56	46,0	5011.535.063	48 x 56	46,0	2



♦ IP 40 ... IP 66
⌄ -40°C ... +125°C | +250°C [MSD]

USW-P

Metall-Sicherheitsverschraubung
 90° Winkel
 Außengewinde
 inkl. Innentülle, Dichtring oder
 Messing-Druckring [MSD] und O-Ring

Metal connector, safety-type
 90° elbow
 outer thread
 incl. ferrule, sealing or
 brass thrust collar [MSD] and O-ring

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-
 schlüsselfläche, Anschlussgewinde
 metrisch nach EN 60423, Sechskant-
 druckmutter, Kunststoff-Dichtring
 oder Messing-Druckring, zur Aufnahme
 der Innentülle aus Metall / Kunststoff

STRUCTURE

Connector body with hexagonal wrench
 surface, connecting thread metric acc. to
 EN 60423 hexagon pressure nut,
 plastic seal or brass thrust collar,
 to receive FLEXA ferrule
 made of metal / plastics

MATERIAL

Gehäuse	Messing vernickelt
Druckmutter	Messing vernickelt
Dichtring	TPE oder PTFE
Druckring	Messing
Innentülle	Messing Kunststoff
O-Ring	NBR

MATERIAL

Connector body	nickel-plated brass
Pressure nut	nickel-plated brass
Sealing ring	TPE or PTFE
Thrust collar	brass
Ferrule	brass plastics
O-ring	NBR

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

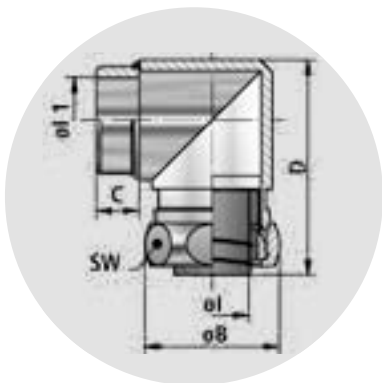
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tensionproof

WICHTIG

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet. Für EMV-Verwendung bitte die Montageanleitung beachten.

IMPORTANT

The security of the connector is only guaranteed with the corresponding ferrule. For emc-usage please see our assembly instructions.



- A** Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B** Innentülle
ferrule
- C** Dichtring oder Messing-Druckring
sealing ring or brass thrust collar
- D** Druckmutter
pressure nut

AD
OD









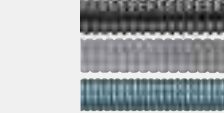














Technische Basisdaten USW-P
 Technical basic data USW-P

ø	PG DIN 40430	øB mm	C mm	D mm	SW mm	kg/100
10	7	19,0	9,0	36,0	17	2,800
14	9	23,0	9,0	41,0	21	3,600
17	11	27,0	9,0	45,0	25	5,900
19	13,5	29,0	10,0	49,5	27	7,700
21	16	31,0	10,0	52,0	29	10,000
27	21	39,0	10,5	58,0	36	13,400
36	29	48,0	11,0	72,0	45	23,300

USW-P

🔥 IP 40 ... IP 66
 🌡️ -40°C ... +125°C | +250°C [MSD]

AD OD		FLEXA No.			FLEXA No.			
		SPR-AS SPR-VA			SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS			
ø	PG DIN 40430	[IP 40]	mm	øl mm	[IP 65]	mm	øl mm	St. pcs.
10	7	5010.227.007	8 x 10	6,5	5010.228.007	7 x 10	6,0	25
14	9	5010.227.009	11 x 14	10,0	5010.228.009	10 x 14	8,5	25
17	11	5010.227.011	14 x 17	12,5	5010.228.011	13 x 17	11,5	25
19	13,5	5010.227.013	16 x 19	14,5	5010.228.013	15 x 19	13,5	25
21	16	5010.227.016	18 x 21	16,5	5010.228.016	17 x 21	15,5	25
27	21	5010.227.021	23 x 27	21,5	5010.228.021	22 x 27	20,5	10
36	29	5010.227.029	31 x 36	29,5	5010.228.029	29 x 36	27,5	10
		FLEXAgraff®-AS FLEXAgraff®-VA			FLEXAgraff®-PU-AS FLEXAgraff®-PU-F			
ø	PG DIN 40430	[IP 40]	mm	øl mm	[IP 65]	mm	øl mm	St. pcs.
10	7	5010.227.007	8 x 10	6,5	5010.228.007	7 x 10	6,0	25
14	9	5010.239.009	12 x 14	10,5	5010.227.009	10 x 14	10,0	25
17	11	5010.227.011	14 x 17	12,5	5010.228.011	13 x 17	11,5	25
19	13,5	5010.227.013	16 x 19	14,5	5010.228.013	15 x 19	13,5	25
21	16	5010.227.016	18 x 21	16,5	5010.228.016	17 x 21	15,5	25
27	21	5010.239.021	24 x 27	22,5	5010.240.021	23 x 27	21,5	10
36	29	5010.227.029	31 x 36	29,5	5010.228.029	29 x 36	27,5	10
		AIRflex®-KUW-PVC-AS AIRflex®-KUW-PU-AS AIRflex®-GRS [IP 65] AIRflex®-K			FLEXAgraff®-SI-ASF			
ø	PG DIN 40430	[IP 54]	mm	øl mm	[IP 66]	mm		St. pcs.
10	7	5010.230.007	7 x 10	6,0				25
14	9	5010.230.009	10 x 14	9,0	5010.237.009	10 x 14	9,0	25
17	11	5010.230.011	13 x 17	11,5	5010.237.011	12 x 17	10,5	25
19	13,5	5010.230.013	15 x 19	13,0				25
21	16	5010.230.016	16 x 21	14,5	5010.235.016	16 x 21	14,5	25
27	21	5010.230.021	21 x 27	19,5	5010.201.021	21 x 27	19,5	10
36	29	5010.230.029	29 x 36	26,5	5010.237.029	27 x 36	26,5	10
		FLEXAgraff®-CU-AS			SPR-CU SPR-EDU-AS			
ø	PG DIN 40430	[IP 40]	mm	øl mm	[IP 40]	mm	øl mm	St. pcs.
10	7	5011.228.007	7 x 10	6,0	5011.228.007	7 x 10	6,0	25
14	9	5011.227.009	11 x 14	10,0	5011.228.009	10 x 14	8,5	25
17	11	5011.228.011	13 x 17	11,5	5011.228.011	13 x 17	11,5	25
19	13,5	5011.228.013	15 x 19	13,5	5011.228.013	15 x 19	13,5	25
21	16	5011.228.016	17 x 21	15,5	5011.228.016	17 x 21	15,5	25
27	21	5011.240.021	23 x 27	21,5	5011.228.021	22 x 27	20,5	10
36	29	5011.228.029	29 x 36	27,5	5011.228.029	29 x 36	27,5	10
		AIRflex®-KUW-EDU			SPR-PVC-EDU-AS			
ø	PG DIN 40430	[IP 54]	mm	øl mm	[IP 54]	mm	øl mm	St. pcs.
14	9	5011.228.009	9 x 14	8,5	5011.228.009	9 x 14	8,5	25
17	11	5011.235.011	12 x 17	11,0	5011.235.011	12 x 17	11,0	25
19	13,5	5011.235.013	14 x 19	13,0	5011.235.013	14 x 19	13,0	25
21	16	5011.235.016	15 x 21	14,5	5011.235.016	16 x 21	14,5	25
27	21	5011.235.021	20 x 27	19,5	5011.201.021	21 x 27	19,5	10
36	29	5011.228.029	28 x 36	27,5	5011.228.029	28 x 36	27,5	10



IP 54
-10°C ... +110°C

UL 1696
UR file E86359
CSA 22.2
File No. 227.3-05



USK

Kunststoffverschraubung
gerade
Außengewinde
inkl. Innentülle und Dichtring
UL-file E86359

Plastic connector
straight
outer thread
incl. ferrule and sealing
UL-file E86359

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-
schlüssel­fläche und Anschlussgewinde

STRUCTURE

Connector body with hexagonal
wrench surface and connecting thread

MATERIAL

Gehäuse Kunststoff [PP]
Innentülle Kunststoff [PP]
Dichtring TPE

MATERIAL

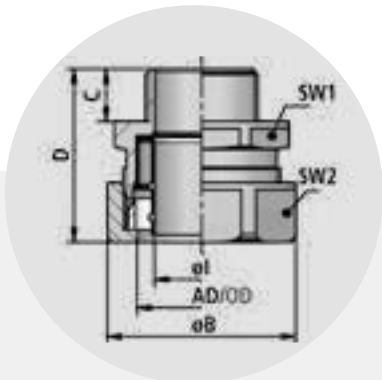
Connector body plastics [PP]
Ferrule plastics [PP]
Sealing ring TPE

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- vibrations- und zugfest

PROPERTIES

- high dust- and waterproof
- friction-type locking of conduit and screw connector
- vibration and tension-proof



USK-M

Kleine VPE
small packing unit

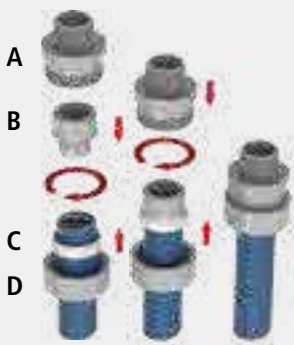
ø	Metr. EN 60423	[IP 54]	øl mm	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100	St. pcs.	FLEXA No.	St. pcs.
10	M 10 x 1,0	5020.330.010	6,0	20,0	10,0	40,0	16	18	0,340	50	5020.730.010	10
14	M 12 x 1,5	5020.330.012	8,0	25,0	12,0	43,0	21	23	0,660	50	5020.730.012	10
17	M 16 x 1,5	5020.330.016	11,0	30,0	12,0	43,0	24	27	0,880	50	5020.730.016	10
21	M 20 x 1,5	5020.330.020	15,0	35,0	13,0	44,0	29	32	1,220	50	5020.730.020	10
27	M 25 x 1,5	5020.330.025	20,0	44,0	13,0	50,0	36	40	2,400	25	5020.730.025	10
36	M 32 x 1,5	5020.330.032	27,0	54,0	15,0	51,0	45	49	3,120	25	5020.730.032	2
45	M 40 x 1,5	5020.330.040	35,0	63,0	15,0	51,0	54	58	3,920	25	5020.730.040	2
56	M 50 x 1,5	5020.330.050	44,5	77,0	16,0	58,0	66	70	6,200	10	5020.730.050	2
56	M 63 x 1,5	5020.330.063	44,5	77,0	16,0	58,0	66	70	8,800	10	5020.730.063	2

USK-P

Kleine VPE
small packing unit

ø	PG DIN 40430	[IP 54]	øl mm	øB mm	C mm	D mm	SW1 mm	SW2 mm	kg 100	St. pcs.	FLEXA No.	St. pcs.
10	7	5020.130.007	6,0	20,0	10,0	40,0	16	18	0,350	50	5020.430.007	10
14	9	5020.130.009*	9,0	25,0	10,0	41,0	21	23	0,640	50	5020.430.009*	10
17	11	5020.130.011*	11,0	30,0	10,0	41,0	24	27	0,860	50	5020.430.011*	10
19	13,5	5020.130.013	13,0	32,0	10,0	41,0	26	29	0,980	50	5020.430.013	10
21	16	5020.130.016*	14,5	35,0	11,0	42,0	29	32	1,180	50	5020.430.016*	10
27	21	5020.130.021	19,5	44,0	11,0	48,0	36	40	2,240	25	5020.430.021	10
36	29	5020.130.029	27,0	54,0	12,0	48,0	45	49	3,120	25	5020.430.029	2
45	36	5020.130.036	36,0	63,0	12,0	48,0	53	58	4,040	25	5020.430.036	2
56	48	5020.130.048	46,0	77,0	15,0	57,0	65	70	6,300	10	5020.430.048	2

* mit NEMKO-Approbaton with NEMKO-Approval



- A Verschraubungsgehäuse mit montiertem O-Ring
connector body with mounted O-ring
- B Innentülle
ferrule
- C Dichtring
sealing ring
- D Druckmutter
pressure nut

LKI

Kunststoffverschraubung
gerade
einteilig
mit Anschlussgewinde drehbar
UL-file E86359

Plastic connector
straight
one-part
with turnable connecting thread
UL-file E86359

IP 54
-10°C ... +110°C

UL 1696
UR file E86359
CSA 22.2
File No. 227.3-05



KONSTRUKTION

Rundes Verschraubungsgehäuse
drehbares Anschlussgewinde mit
integrierter Innentülle

STRUCTURE

Round connector body
turnable connecting thread
with fixed ferrule

MATERIAL

schlagfester Kunststoff [PP]

MATERIAL

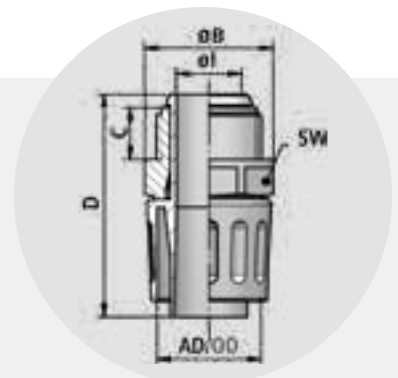
resistant plastics [PP]

EIGENSCHAFTEN

- rationelle Schlauchmontage
- einteiliger Verschraubungskörper
Schlauchdreherschutz
- Abdeckung der Schlauchenden
- vibrations- und zugfest

PROPERTIES

- rational conduit fitting
- one-part connector body
- conduit screw-out-locking
- covering of the conduit ends
- vibrationproof and tensionproof



AD
OD



FLEXA No.



FLEXA No.



LKI-M

Kleine VPE
small packing unit

ø	Metr. EN 60423	[IP 54]	øI mm	øB mm	C mm	D mm	SW mm	kg 100	St. pcs.	FLEXA No.	St. pcs.
10	M 12 x 1,5	5020.014.012	5,5	17,5	10,0	38,0	16	0,260	50	5020.714.012	10
14	M 16 x 1,5	5020.014.016	9,5	21,0	10,0	39,5	19	0,380	50	5020.714.016	10
17	M 20 x 1,5	5020.014.020	11,5	24,5	10,0	42,0	22	0,640	50	5020.714.020	10
21	M 25 x 1,5	5020.014.025	14,5	30,0	11,0	48,0	27	0,980	50	5020.714.025	10
27	M 32 x 1,5	5020.014.032	19,5	39,0	12,0	58,0	35	1,680	25	5020.714.032	10
36	M 40 x 1,5	5020.014.040	27,0	50,0	12,0	59,0	45	2,560	25	5020.714.040	2
45	M 50 x 1,5	5020.014.050	35,5	59,5	12,0	62,5	54	3,520	25	5020.714.050	2
56	M 63 x 1,5	5020.014.063	46,0	71,5	15,0	68,0	65	5,900	10	5020.714.063	2

LKI-P

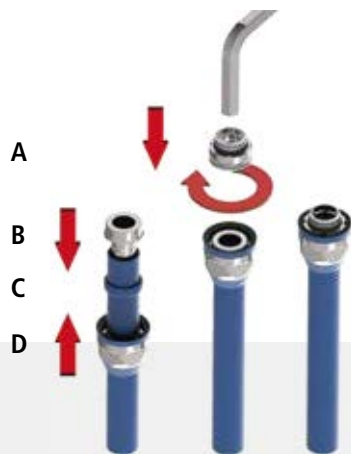
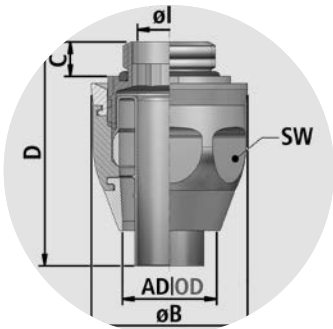
ø	PG DIN 40430	[IP 54]	øI mm	øB mm	C mm	D mm	SW mm	kg 100	St. pcs.	FLEXA No.	St. pcs.
10	7	5020.010.007	5,5	17,5	10,0	38,0	16	0,300	50	5020.710.007	10
14	9	5020.010.009	9,5	21,0	10,0	39,5	19	0,340	50	5020.710.009	10
17	11	5020.010.011	11,5	24,5	10,0	42,0	22	0,600	50	5020.710.011	10
19	13,5	5020.010.013	13,0	26,5	10,0	42,0	24	0,660	50	5020.710.013	10
21	16	5020.010.016	14,5	30,0	11,0	48,0	27	0,920	50	5020.710.016	10
27	21	5020.010.021	19,5	39,0	11,0	58,0	35	1,720	25	5020.710.021	10
36	29	5020.010.029	27,0	50,0	12,0	59,0	45	2,800	25	5020.710.029	2
45	36	5020.010.036	35,5	59,5	12,0	62,5	54	3,680	25	5020.710.036	2
56	48	5020.010.048	46,0	71,5	15,0	68,0	65	5,800	10	5020.710.048	2

* mit NEMKO-Approbation with NEMKO-Approval



🔥 IP 68 | IP 69K
 🌡️ -40°C ... +125°C

ECOLAB



- A Verschraubungskörper mit montiertem O-Ring
connector body with mounted O-ring
- B Innentülle
ferrule
- C Dichtring
sealing ring
- D Druckmutter
pressure nut

US-FOOD

Metallverschraubung
 Edelstahl
 gerade
 Außengewinde
 inkl. Innentülle und O-ring

Metal connector
 stainless steel
 straight
 outer thread
 incl. ferrule and sealing

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-schlüsselfläche, feststehendes Außen-gewinde metrisch nach EN 60423, Sechskantdruckmutter, Kunststoff-Dichtring, einteilige Gewinde-Innentülle und O-Ring

STRUCTURE

Connector body with hexagon wrench surface, fixed connecting outer thread metric acc to EN 60423, hexagon pressure nut, plastic sealing, one-part thread ferrule and O-Ring

MATERIAL

Gehäuse Edelstahl|Versaflex CL2250
 Druckmutter Edelstahl 1.4404
 Dichtring Kunststoff PA 6
 Innentülle Messing
 O-Ring NBR

MATERIAL

Conn. Body stainless steel|Versaflex CL2250
 Pressure nut stainless steel 1.4404
 Sealing ring plastics PA 6
 Ferrule nickel-plated brass
 O-ring NBR

EIGENSCHAFTEN

- lebensmittelecht
- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest
- IP 68 geprüft nach EN 60529 | IP 69K geprüft nach DIN 40050-9 [interne Prüfung] bis 40 bar, 80°C

PROPERTIES

- food-safe
- highly watertight and dustproof
- friction-type locking of conduit and screw connector
- correct grounding
- covering of the conduit ends
- vibration- and tension proof
- IP 68 approved acc. to EN 60529 | IP 69K approved acc. to DIN 40050-9 [internal audit] up to 40 bar, 80°C

AD
 OD



FLEXA No.



US-FOOD-M

ø	Metr. EN 60423	[IP 68]	mm	øl mm	øB mm	C mm	D mm	SW mm	SW mm	kg 100	St. pcs.
1/2"	M 20 x 1,5	0608.800.020	16,0 x 21,0	14,0	34,0	7,5	48,5	30	14	7,040	10
1/2"	M 25 x 1,5	0608.800.125	16,0 x 21,0	14,0	41,0	7,5	49,5	36	14	11,510	10
3/4"	M 25 x 1,5	0608.800.025	21,0 x 27,0	18,8	41,0	7,5	58,0	36	19	10,010	5
1"	M 32 X 1,5	0608.800.032	26,5 x 33,0	27,8	53,0	7,5	68,0	46	25	19,325	5
1 1/4"	M 40 X 1,5	0608.800.040	35,0 x 42,0	32,0	61,0	7,5	80,0	54	32	29,295	2

EG

Metallverschraubung
gerade
Außengewinde
inkl. Innentülle und Dichtring

Metal connector
straight
outer thread
incl. ferrule and sealing

IP 67
-45°C ... +105°C

KONSTRUKTION

Verschraubungsgehäuse mit Sechskant-schlüsselfläche, feststehendes Anschluss-gewinde, Sechskantdruckmutter, Kunst-stoff-Dichtring, einteilige Gewinde-Innen-tülle, abgestimmt auf die amerikanischen und kanadischen Handelsgrößen

STRUCTURE

Connector body, hexagon wrench surface, connecting thread with hexagon pressure nut, plastic sealing and one-part thread ferrule, according to US and Canadian commercial sizes

MATERIAL

Gehäuse Messing vernickelt
Druckmutter Messing vernickelt
Dichtring Elastischer Kunststoff
Innentülle Messing

MATERIAL

Connector body nickel-plated brass
Pressure nut nickel-plated brass
Sealing ring elastic plastics
Ferrule brass

EIGENSCHAFTEN

- hoher Staub- / Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden

PROPERTIES

- highly watertight and dustproof
- friction-type locking of conduit and connector
- correct grounding
- covering of the conduit ends



AD
OD



FLEXA No.

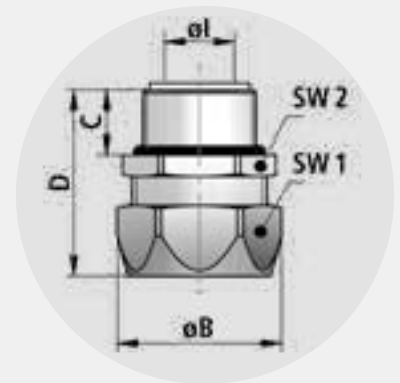


EG-M

ø	Metr. EN 60423	[IP 67]	mm	øI mm	øB mm	C mm	D mm	SW 1 mm	SW 2 mm	kg 100	St. pcs.
1/4"	M 12 x 1,5	0608.000.112	7,0 x 11,4	5,2	24,5	10,0	33,0	22	20	4,800	10
5/16"	M 16 x 1,5	0608.000.116	10,0 x 14,5	8,3	29,0	12,0	35,0	26	24	4,800	10
3/8"	M 16 x 1,5	0608.000.016	12,5 x 18,0	10,2	29,0	12,0	35,0	26	24	4,800	10
5/16"	M 20 x 1,5	0608.000.120	10,0 x 14,5	8,3	29,0	13,0	36,0	26	24	5,100	10
3/8"	M 20 x 1,5	0608.000.020	12,5 x 18,0	10,2	29,0	13,0	36,0	26	24	5,100	10
1/2"	M 20 x 1,5	0608.000.021	16,0 x 21,0	13,9	32,7	13,0	37,0	29	27	5,900	10
3/4"	M 25 x 1,5	0608.000.025	21,0 x 26,5	18,5	38,7	15,0	40,0	35	33	7,900	5
1"	M 32 x 1,5	0608.000.032	26,5 x 33,0	23,8	50,0	15,0	46,0	45	43	17,500	5
1 1/4"	M 40 x 1,5	0608.000.040	35,5 x 42,0	31,8	60,0	16,0	52,0	54	52	27,900	2
2"	M 63 x 1,5	0608.000.063	51,5 x 60,0	47,8	85,0	20,0	66,0	77	74	73,500	2

EG-P

ø	PG DIN 40430	[IP 67]	mm	øI mm	øB mm	C mm	D mm	SW 1 mm	SW 2 mm	kg 100	St. pcs.
1/4"	7	0610.000.007	7,0 x 11,4	5,2	24,5	10,0	33,0	22	20	3,000	10
5/16"	9	0610.000.009	10,0 x 14,5	8,3	29,0	12,0	35,0	26	24	4,800	10
3/8"	11	0610.000.011	12,5 x 18,0	10,2	29,0	12,0	35,0	26	24	5,520	10
3/8"	13,5	0610.000.013	12,5 x 18,0	10,2	29,0	12,0	35,0	26	24	5,320	10
1/2"	16	0610.000.016	16,0 x 21,0	13,9	32,7	13,0	37,0	29	27	8,080	10
3/4"	21	0610.000.021	21,0 x 26,5	18,5	38,7	15,0	40,0	35	33	11,800	5
1"	29	0610.000.029	26,5 x 33,0	23,8	50,0	15,0	46,0	45	43	20,600	5
1 1/4"	36	0610.000.036	35,5 x 42,0	31,8	60,0	16,0	52,0	54	52	38,800	2
2"	48	0610.000.048	51,5 x 60,0	47,8	85,0	20,0	66,0	77	74	66,000	2



IP 67
-45°C ... +105°C

EW 45

Metallverschraubung
Winkel 45°
Außengewinde
inkl. Innentülle und Dichtung

Metal connector
elbow 45°
outer thread
incl. ferrule and sealing

KONSTRUKTION

Verschraubungsgehäuse in 45° Winkel-
ausführung mit Sechskantschlüsselfläche,
feststehendes Anschlussgewinde,
Sechskantdruckmutter, Kunststoff-
Dichtring, einteilige Gewinde-Innentülle,
abgestimmt auf die amerikanischen und
kanadischen Handelsgrößen

STRUCTURE

Connector body of 45°-angle version,
hexagon wrench surface
with conduit connecting thread,
hexagon pressure nut, plastic sealing,
one-part thread ferrule, according to
US and Canadian commercial sizes

MATERIAL

Gehäuse Messing vernickelt
Druckmutter Messing vernickelt
Dichtring Elastischer Kunststoff
Innentülle Messing

MATERIAL

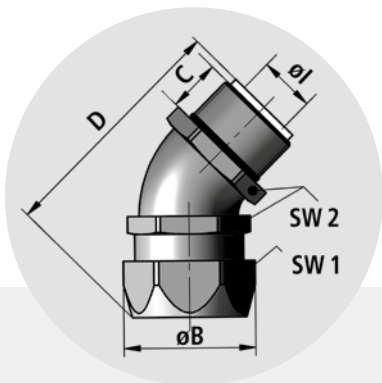
Connector body nickel-plated brass
Pressure nut nickel-plated brass
Sealing ring elastic plastics
Ferrule brass

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von
Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden

PROPERTIES

- highly watertight and dustproof
- friction-type locking of conduit
and screw connector
- correct grounding
- covering of the conduit ends



AD
OD



FLEXA No.



EW 45 – M

ø	Metr. EN 60423	[IP 67]	mm	øl mm	øB mm	C mm	D mm	SW 1 mm	SW 2 mm	kg/100	St. pcs.
5/16"	M 16 x 1,5	0609.000.116	10,0 x 14,5	8,3	29,0	12,0	57,0	26	22	7,300	10
3/8"	M 16 x 1,5	0609.000.016	12,5 x 18,0	10,2	29,0	12,0	57,0	26	22	7,300	10
5/16"	M 20 x 1,5	0609.000.120	10,0 x 14,5	8,3	29,0	13,0	57,0	26	22	7,400	10
3/8"	M 20 x 1,5	0609.000.020	12,5 x 18,0	10,2	29,0	12,0	57,0	26	22	7,400	10
1/2"	M 20 x 1,5	0609.000.021	16,0 x 21,0	13,9	32,7	13,0	60,0	29	27	10,500	10
3/4"	M 25 x 1,5	0609.000.025	21,0 x 26,5	18,5	38,7	15,0	70,5	35	33	13,600	5
1"	M 32 x 1,5	0609.000.032	26,5 x 33,0	23,8	50,0	15,0	84,5	45	42	26,500	5
1 1/4"	M 40 x 1,5	0609.000.040	35,5 x 42,0	31,8	60,0	16,0	98,0	54	51	44,900	2
2"	M 63 x 1,5	0609.000.063	51,5 x 60,0	47,8	85,0	20,0	133,5	77	74	128,000	2

EW 45 – P

ø	PG DIN 40430	[IP 67]	mm	øl mm	øB mm	C mm	D mm	SW 1 mm	SW 2 mm	kg/100	St. pcs.
5/16"	11	0611.000.111	10,0 x 14,5	8,3	29,0	12,0	57,0	26	22	7,700	10
3/8"	11	0611.000.011	12,5 x 18,0	10,2	29,0	12,0	57,0	26	22	7,700	10
5/16"	13,5	0611.000.113	10,0 x 14,5	8,3	29,0	12,0	57,0	26	22	8,100	10
3/8"	13,5	0611.000.013	12,5 x 18,0	10,2	29,0	12,0	57,0	26	22	8,100	10
1/2"	16	0611.000.016	16,0 x 21,0	13,9	32,7	13,0	60,0	29	27	11,600	10
3/4"	21	0611.000.021	21,0 x 26,5	18,5	38,7	15,0	70,0	35	33	16,600	5
1"	29	0611.000.029	26,5 x 33,0	23,8	50,0	15,0	75,0	45	42	31,500	5
1 1/4"	36	0611.000.036	35,5 x 42,0	31,8	60,0	16,0	98,0	54	51	53,200	2
2"	48	0611.000.048	51,5 x 60,0	47,8	85,0	20,0	134,0	77	74	132,000	2

EW 90

Metallverschraubung
Winkel 90°
Außengewinde
inkl. Innentülle und Dichtring

Metal connector
elbow 90°
outer thread
incl. ferrule and sealing

IP 67
-45°C ... +105°C

KONSTRUKTION

Verschraubungsgehäuse in 90° Winkel-
ausführung mit Sechskantschlüsselfläche,
feststehendes Anschlussgewinde,
Sechskantdruckmutter, Kunststoff-
Dichtring, einteilige Gewinde-Innentülle,
abgestimmt auf die amerikanischen und
kanadischen Handelsgrößen

STRUCTURE

Connector body of 45°-angle version
hexagon wrench surface with
conduit connecting thread,
hexagon pressure nut, plastic sealing,
one-part thread ferrule, according to
US and Canadian commercial sizes

MATERIAL

Gehäuse Messing vernickelt
Druckmutter Messing vernickelt
Dichtring Elastischer Kunststoff
Innentülle Messing

MATERIAL

Connector body nickel-plated brass
Pressure nut nickel-plated brass
Sealing ring elastic plastics
Ferrule brass

EIGENSCHAFTEN

- hoher Staub- und Flüssigkeitsschutz
- kraftschlüssige Verbindung von
Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden

PROPERTIES

- highly watertight and dustproof
- friction-type locking of conduit
and screw connector
- correct grounding
- covering of the conduit ends



AD
OD



FLEXA No.

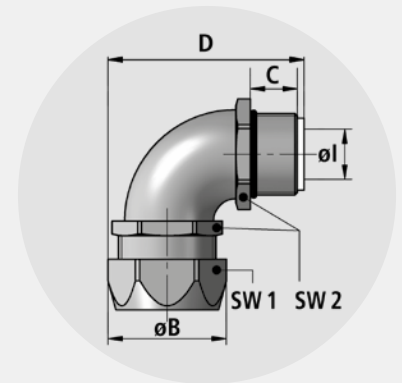


EW 90 – M

ø	Metr. EN 60423	[IP 67]		øI mm	øB mm	C mm	D mm	SW 1 mm	SW 2 mm	kg 100	St. pcs.
5/16"	M 16 x 1,5	0607.000.116	10,0 x 14,5	8,3	29,0	12,0	57,0	26	22	8,200	10
3/8"	M 16 x 1,5	0607.000.016	12,5 x 18,0	10,2	29,0	12,0	49,0	26	22	8,200	10
5/16"	M 20 x 1,5	0607.000.120	10,0 x 14,5	8,3	29,0	13,0	57,0	26	22	8,400	10
3/8"	M 20 x 1,5	0607.000.020	12,5 x 18,0	10,2	29,0	13,0	49,0	26	22	8,400	10
1/2"	M 20 x 1,5	0607.000.021	16,0 x 21,0	13,9	32,7	13,0	54,0	29	27	12,600	10
3/4"	M 25 x 1,5	0607.000.025	21,0 x 26,5	18,5	38,7	15,0	65,0	35	33	19,200	5
1"	M 32 x 1,5	0607.000.032	26,5 x 33,0	24,3	50,0	15,0	75,0	45	42	31,600	5
1 1/4"	M 40 x 1,5	0607.000.040	35,5 x 42,0	31,8	60,0	16,0	90,0	54	51	56,100	2
2"	M 63 x 1,5	0607.000.063	51,5 x 60,0	47,8	85,0	20,0	120,0	77	74	139,800	2

EW 90 – P

ø	PG DIN 40430	[IP 67]		øI mm	øB mm	C mm	D mm	SW 1 mm	SW 2 mm	kg 100	St. pcs.
5/16"	11	0612.000.111	10,0 x 14,5	8,3	29,0	12,0	57,0	26	22	8,900	10
3/8"	11	0612.000.011	12,5 x 18,0	10,2	29,0	12,0	49,0	26	22	8,900	10
5/16"	13,5	0612.000.113	10,0 x 14,5	10,5	29,0	12,0	57,0	26	22	8,900	10
3/8"	13,5	0612.000.013	12,5 x 18,0	10,2	29,0	12,0	49,0	26	22	8,900	10
1/2"	16	0612.000.016	16,0 x 21,0	13,9	32,7	13,0	54,0	29	27	13,500	10
3/4"	21	0612.000.021	21,0 x 26,5	18,5	38,7	15,0	65,0	35	33	21,600	5
1"	29	0612.000.029	26,5 x 33,0	23,8	50,0	15,0	75,0	45	42	35,300	5
1 1/4"	36	0612.000.036	35,5 x 42,0	31,8	60,0	16,0	90,0	54	51	62,500	2
2"	48	0612.000.048	51,5 x 60,0	47,8	85,0	20,0	120,0	77	74	141,900	1





NIMS

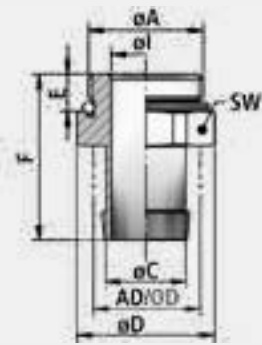
Metall-Schlaucholive
Sechskantschlüsselfläche
feststehendes Anschlussgewinde
inkl. O-Ring





🔥 IP 54 ... IP 65
🌡️ -40°C ... +250°C

Metal conduit olive
hexagon wrench surface
fixed outer thread
incl. O-Ring

MATERIAL
Messing vernickelt

MATERIAL
nickel-plated brass



AD OD  **FLEXA No.**   

NIMS–M



K-EDU
K-Schlauch



HG-CU | HG-K
FLEXAhightemp

ø	Metr. EN 60423	FLEXA No.	øl mm	øC mm	øD mm	E mm	F mm	SW mm	kg/100	St. pcs.
14	M 12 x 1,5	5010.023.012	7,0	9,0	15,5	6,4	29,0	14	1,380	10
17	M 16 x 1,5	5010.023.016	10,0	12,0	19,0	6,5	29,0	17	2,300	10
19	M 20 x 1,5	5010.023.020	12,0	14,0	24,3	6,5	29,0	22	3,400	10
21	M 25 x 1,5	5010.023.025	14,0	16,0	30,1	6,5	29,0	27	4,400	10
27	M 32 x 1,5	5010.023.032	19,0	21,0	39,1	6,5	32,1	35	8,600	5
36	M 40 x 1,5	5010.023.040	27,0	29,0	51,0	7,5	39,0	43	10,800	5
45	M 50 x 1,5	5010.023.050	35,0	37,1	59,5	10,0	47,0	54	15,000	5
56	M 63 x 1,5	5010.023.063	46,0	54,0	70,0	10,0	50,1	65	33,000	5

NIMS–P

ø	PG DIN 40430	FLEXA No.	øl mm	øC mm	øD mm	E mm	F mm	SW mm	kg/100	St. pcs.
14	9	5010.022.009	7,0	9,0	21,0	6,0	29,0	19	2,120	10
17	11	5010.022.011	10,0	12,0	24,0	6,0	29,0	22	3,200	10
19	13,5	5010.022.013	12,0	14,0	24,0	6,0	29,0	24	2,940	10
21	16	5010.022.016	14,0	16,0	26,0	6,0	29,0	24	3,500	10
27	21	5010.022.021	19,0	21,0	35,5	6,0	29,0	32	5,000	5
36	29	5010.022.029	27,0	29,0	44,0	8,0	39,0	41	13,930	5
45	36	5010.022.036	34,0	36,0	54,0	9,0	41,0	50	14,200	5

SGL

Schlauchschelle
passend zu Schlaucholive NIMS



🌡️ -40°C ... +120°C

Conduit clamp
suitable for conduit olive NIMS

MATERIAL
Stahlblech verzinkt

MATERIAL
galvanized steel



AD OD **FLEXA No.** **Klemmbereich** fixing range **Breite** width  

SGL

ø	FLEXA No.	Klemmbereich fixing range	Breite width	kg/100	St. pcs.
14 - 17	0340.000.020	12 - 20	9,0	1,400	10
19 - 21	0340.000.025	16 - 25	9,0	1,500	10
27 - 36	0340.000.040	25 - 40	9,0	1,700	10
45 - 56	0340.000.060	40 - 60	9,0	2,600	10

MSD

Messing-Druckring
für Verschraubungen US

MATERIAL

Messing

VERWENDUNG

- zur Erdung
- als Potentialausgleich für Schlauch-Verschraubungs-kombinationen im EMV-Einsatz

🔥 ... +250°C

Brass thrust collar
for connectors US

MATERIAL

brass

APPLICATION

- for grounding
- as potential equalization by use of conduits with metal braiding for shielding applications



AD
OD FLEXA No.



MSD

ø		øD mm	ød mm	L mm	kg 100	St. pcs.
10	5031.034.007	13,0	10,2	5,0	0,160	50
14	5031.034.009	17,0	14,5	5,0	0,180	50
17	5031.034.011	21,0	17,2	5,0	0,320	50
19	5031.034.013	23,0	19,2	6,0	0,360	50
21	5031.034.016	25,0	21,3	6,0	0,400	50
27	5031.034.021	32,0	27,3	8,5	1,240	25
36	5031.034.029	41,0	36,3	8,5	1,400	25
45	5031.034.036	50,0	45,3	8,5	1,760	20
56	5031.034.048	61,0	56,3	8,5	2,200	10



TED

Dichtring
für Typ
US | FLEXAgraff®-SI-ASF

MATERIAL

PTFE

🔥 -60°C ... +300°C

Sealing ring
for type
US | FLEXAgraff®-SI-ASF

MATERIAL

PTFE

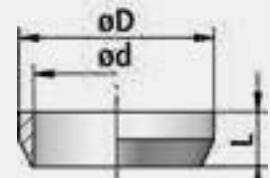


AD
OD FLEXA No.



TED

ø		øD mm	ød mm	L mm	kg 100	St. pcs.
10	5030.013.010	13,0	10,3	6,0	0,054	50
14	5030.013.014	17,0	14,3	6,0	0,070	50
17	5030.013.017	21,0	17,3	6,0	0,120	50
21	5030.013.021	25,0	21,3	7,0	0,160	50
27	5030.013.027	32,0	27,4	9,5	0,400	25
36	5030.013.036	41,0	36,4	9,5	0,480	25
45	5030.013.045	50,0	45,4	9,5	0,600	20
56	5030.013.056	61,0	56,5	9,5	0,800	10





EK

🌡️ -10°C ... +110°C

Zylindrische Kunststoff-Endtülle mit nach innen gezogenem Schutzrand zur Abdeckung der Schlauchenden

Cylindric plastic terminal sleeve with protective edges to cover the conduit ends

MATERIAL

Polypropylen

MATERIAL

polypropylene

VERWENDUNG

- für alle Schlauchtypen aus Metall und Kunststoff

APPLICATION

- for all protective conduit types made of metal and plastic

AD
OD

FLEXA No.



EK

grau grey

ø		mm	kg/100	St. pcs.
10	5020.021.007	10,0	0,060	50
14	5020.021.009	14,0	0,120	50
17	5020.021.011	17,0	0,150	50
19	5020.021.013	19,0	0,155	50
21	5020.021.016	21,0	0,170	50
27	5020.021.021	27,0	0,340	25
36	5020.021.029	36,0	0,890	25
45	5020.021.036	45,0	0,960	25
56	5020.021.048	56,0	1,400	10

AK

🌡️ -40°C ... +120°C ^ +150°C

Endtülle | Übergangsstelle von Schlauch zu Kabel

End cap | transition from tubing to cable

MATERIAL

TPE

MATERIAL

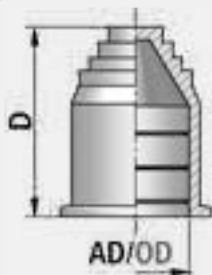
TPE

EIGENSCHAFTEN

- rationeller Schlauchendenabschluss, durch einfaches Aufstecken montiert
- aufsteckbar auf alle Schutzschläuche
- silikon-, cadmium-, halogenfrei
- selbstverlöschend

PROPERTIES

- easy mounting cap
- easy to plug on all protective conduits
- free of silicone-, cadmium-, halogen
- self-extinguishing



AD
OD

FLEXA No.



AK

schwarz black

ø		min ø - max. ø mm	D mm	kg/100	St. pcs.
10	5030.014.207	1,0 - 8,0	29,0	0,160	50
14	5030.014.209	1,0 - 10,0	32,5	0,220	50
17	5030.014.211	4,0 - 12,0	35,5	0,340	50
21	5030.014.216	6,0 - 16,5	37,5	0,560	50
27	5030.014.221	6,0 - 23,0	40,2	0,800	25
36	5030.014.229*	6,0 - 29,0	44,2	1,480	25
45	5030.014.236*	10,0 - 37,0	45,5	1,480	25
56	5030.014.248*	10,0 - 47,0	52,5	2,200	10

* Lieferzeit auf Anfrage Delivery time on request

EEM

-40°C ... +250°C

Endtülle | Innentülle

Terminal sleeve | ferrule

MATERIAL

Messing - für ummantelte Schutzschläuche
 Messing vernickelt - für nicht ummantelte Schutzschläuche

MATERIAL

brass - for conduits with sheathing
 nickel-plated brass - for conduits without sheathing

VERWENDUNG

- für US- und USW-Verschraubungen
- als Endtülle an Schutzschläuchen

APPLICATION

- for connectors US and USW
- as terminal sleeve for protective conduits



AD	FLEXA No.	FLEXA No.	FLEXA No.
OD	SPR-AS SPR-VA	SPR-PA SPR-PU-F SPR-PVC-AS SPR-PU-AS SPR-EDU-AS SPR-CU-AS	FLEXAgraff®-AS FLEXAgraff®-VA

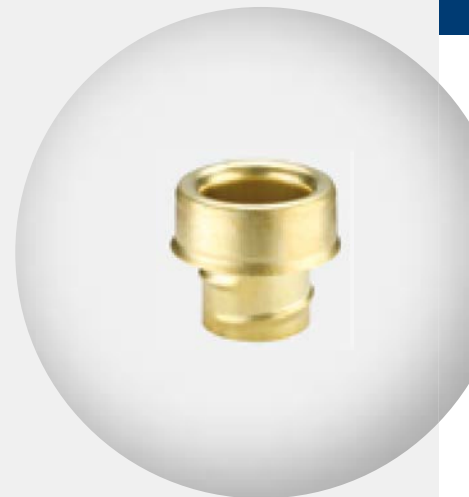
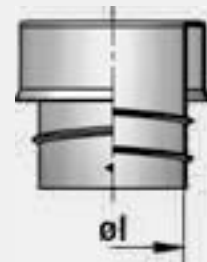
ø		øl		øl							
		mm	mm	mm	mm						
10	5031.027.007	8 x 10	6,5	5031.028.007	7 x 10	6,0	5031.027.007	8 x 10	6,5	0,160	50
14	5031.027.009	11 x 14	10,0	5031.028.009	10 x 14	8,5	5031.039.009	12 x 14	10,5	0,300	50
17	5031.027.011	14 x 17	12,5	5031.028.011	13 x 17	11,5	5031.027.011	14 x 17	12,5	0,320	50
19	5031.027.013	16 x 19	14,5	5031.028.013	15 x 19	13,5	5031.027.013	16 x 19	14,5	0,420	50
21	5031.027.016	18 x 21	16,5	5031.028.016	17 x 21	15,5	5031.027.016	18 x 21	16,5	0,520	50
27	5031.027.021	23 x 27	21,5	5031.028.021	22 x 27	20,5	5031.039.021	24 x 27	22,5	1,120	25
36	5031.027.029	31 x 36	29,5	5031.028.029	29 x 36	27,5	5031.027.029	31 x 36	29,5	1,640	25
45	5031.027.036	40 x 45	38,0	5031.028.036	38 x 45	36,5	5031.027.036	40 x 45	38,0	2,450	20
56	5031.027.048	51 x 56	49,0	5031.028.048	49 x 56	47,5	5031.027.048	51 x 56	49,0	3,800	10

ø	FLEXAgraff®-PU-AS	SPR-PVC-EDU-AS	AIRflex®-KUW-EDU
	FLEXAgraff®-PU-F		
	FLEXAgraff®-CU-AS		
	FLEXAgraff®-CU-PU		

ø		øl		øl							
		mm	mm	mm	mm						
10	5031.028.007	7 x 10	6,0							0,160	50
14	5031.027.009	11 x 14	10,0	5031.028.009	9 x 14	8,5	5031.028.009	9 x 14	8,5	0,300	50
17	5031.028.011	13 x 17	11,5	5031.035.011	12 x 17	11,0	5031.035.011	12 x 17	11,0	0,320	50
19	5031.028.013	15 x 19	13,5	5031.035.013	14 x 19	13,0	5031.035.013	14 x 19	13,0	0,420	50
21	5031.028.016	17 x 21	15,5	5031.035.016	16 x 21	14,5	5031.035.016	15 x 21	14,5	0,520	50
27	5031.040.021	23 x 27	21,5	0601.000.021	21 x 27	19,5	5031.035.021	20 x 27	19,5	1,120	25
36	5031.028.029	29 x 36	27,5	5031.037.029	28 x 36	27,5	5031.028.029	28 x 36	27,5	1,640	25
45	5031.028.036	38 x 45	36,5	5031.035.036	37 x 45	35,5	5031.035.036	37 x 45	35,5	2,450	20
56	5031.028.048	49 x 56	47,5	5031.035.048	48 x 56	47,0	5031.035.048	48 x 56	47,0	3,800	10

ø	FLEXAgraff®-SI-ASF
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ø		øl					
		mm	mm				
14	5031.037.009	10 x 14	11,0			0,160	50
17	5031.037.011	12 x 17	10,5			0,320	50
21	5031.035.016	16 x 21	14,5			0,520	50
27	0601.000.021	21 x 27	19,5			1,120	25
36	5031.037.029	27 x 36	26,5			1,640	25
45	5031.037.036	36 x 45	34,5			2,450	20
56	5031.037.048	47 x 56	45,5			3,800	10





EE

🔥 -40°C ... +250°C

Endtülle | Innentülle

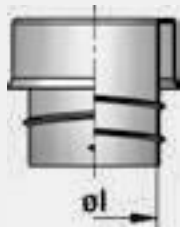
Terminal sleeve | ferrule





MATERIAL
Messing

MATERIAL
brass

VERWENDUNG
• als Endtülle an Schutzschläuchen

APPLICATION
• as terminal sleeve for protective conduits



AD OD	FLEXA No.				
		LIQUID-TIGHT-UL-CSA			
		LIQUID-TIGHT-EF-OR			
ø		mm	øl mm	kg/100	St. pcs.
5/16"	5031.028.009	10,0 x 14,5	8,5	0,300	50
3/8"	0601.000.011	12,5 x 18,0	11,0	0,300	50
1/2"	0601.000.016	16,0 x 21,0	14,5	0,700	50
3/4"	0601.000.021	21,0 x 26,5	19,5	1,000	25
1"	0601.000.029	26,5 x 33,0	25,0	1,500	25
1 1/4"	0601.000.036	35,5 x 42,0	33,0	1,900	20
2"	0601.000.048	50,0 x 60,0	48,5	2,800	10

* Lieferzeit auf Anfrage Delivery time on request



EEK

🔥 -10°C ... +110°C

Endtülle | Innentülle

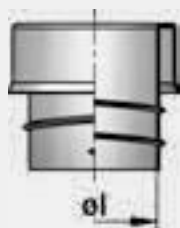
Terminal sleeve | ferrule





MATERIAL
Kunststoff

MATERIAL
plastics

VERWENDUNG
• für USK-Verschraubungen
• als Endtülle an
AIRflex®-Schutzschläuchen

APPLICATION
• for connectors USK
• as terminal sleeve for
AIRflex® protective conduits



AD OD	FLEXA No.				
		AIRflex®-KUW-PVC-AS			
		AIRflex®-KUW-PU-AS			
		AIRflex®-GRS			
		AIRflex®-K			
ø		mm	øl mm	kg/100	St. pcs.
10	5020.030.007	7 x 10	6,0	0,040	50
14	5020.030.009	10 x 14	9,0	0,060	50
17	5020.030.011	13 x 17	11,5	0,100	50
19	5020.030.013	15 x 19	13,0	0,120	50
21	5020.030.016	16 x 21	14,5	0,140	50
27	5020.030.021	21 x 27	19,5	0,200	25
36	5020.030.029	29 x 36	26,5	0,400	25
45	5020.030.036	38 x 45	36,0	0,600	20
56	5020.030.048	48 x 56	45,5	0,770	10

MONTAGEHILFEN | TRENNHILFEN
MOUNTING AND PARTING TOOLS

SCHLAUCHTRENNSCHERE

Zum Schneiden von
Metallschlauch

CONDUIT SEPARATING SHEARS

For cutting of
metal conduits

FLEXA No.

Longueur
length

mm

St.
pcs.

0432.000.001

175

1



TÜLLENEINDREHER

Zum Einschrauben der Tüllen
in den Schlauch

BELL FITTING DRIVER

For screwing the sleeves
into the conduit

FLEXA No.

AD
OD

mm

St.
pcs.

0410.000.007*

10 - 21

1

0410.000.021*

27 - 56

1



MONTAGEZANGE

Zur Montage des Messing-Druckrings auf
einen umflochtenen Schlauch

CIRCLIP PLIERS

For easy mounting the
brass thrust collar on the conduit

FLEXA No.

AD
OD

mm

St.
pcs.

0420.000.007*

10

1

0420.000.009*

14

1

0420.000.011*

17

1

0420.000.013*

19

1

0420.000.016*

21

1

0420.000.021*

27

1

0420.000.029*

36

1

0420.000.036*

45

1

0420.000.048*

56

1

* Lieferzeit auf Anfrage Delivery time on request

