

LAGRA

SYSTEMTECHNIK



PRODUKT KATALOG



KABEL SCHUTZ SYSTEME



FIRMENPROFIL

COMPANY PROFILE

Das Unternehmen geht in seinen Ursprüngen auf das Jahr 1965 zurück und hat heute seinen Sitz in Nußloch, unweit von Heidelberg. Wir liefern Bauteile im Bereich der Maschinen-, Anlagen- und Elektroinstallation, Fahrzeugbau, Roboterbau und Schienenverkehrstechnik. Die Produktpalette fokussiert sich rund um den qualifizierten Kabelschutz, auch in extremen Anwendungsfällen. Darum ist die Beratung unserer Kunden von großer Bedeutung, um sie bestmöglich und problemorientiert zu bedienen.

Unser Produktprogramm gestaltet sich, ohne dass die Darstellung abschliessend wäre, im wesentlichen wie folgt:

- » Kabelschutzschläuche und Verschraubungen mit Zubehör
- » Kabelverschraubungen und Zubehör
- » Gehäuse für die Elektrotechnik und Elektronik
- » Metrische Rohre aus Stahl mit Zubehör

The origins of the enterprise go back to the year 1965 and is based in Nußloch, near Heidelberg. We deliver components in the range of electrical installation, installation of machines and facilities, vehicle construction, robot construction and rail transportation technology.

The product range focuses mainly on the qualified cable protection, even for application in extreme cases. This is why expert advice to our clients is of major importance and we wish to attend to our customers in the best possible and job-oriented way.



Dabei sind hochtemperatur- und säurebeständige Ausführungen unsere Stärke, wir können fast in allen Edelstahlqualitäten liefern, teilweise sind unsere Produkte nach UL und/oder CSA approbiert.

Sonderausführungen und Sondermaterialien sind auf Anfrage erhältlich. Wir konfektionieren auch nach Kundenspezifikation. Den Anspruch, eine feststehende Produkt-

palette unseren Kunden anzubieten, erheben wir nicht. Die etwa 10.000 Artikel unseres Programms ermöglichen Problemlösungen für beinahe jegliche Anwendungsfälle. Sollte dennoch eine Anforderung nicht zur Zufriedenheit zu lösen sein, sind wir in der Lage und gern bereit, neue Produkte mit und für unsere Kunden zu kreieren. Für ein unverbindliches Beratungsgespräch stehen wir Ihnen jederzeit zur Verfügung.

Our product range covers primarily - without requirement on completeness - the following products:

- » Cable Protection Conduits and Fittings with Accessories
- » Cable Glands and Accessories
- » Boxes for Electrical Engineering and Electronics
- » Metric Steel Pipes with Accessories

We are excellent in high-temperature and acid-resistant realisations. We are able to deliver all sorts of Stainless steel qualities and many of our products are UL and/or CSA approbated.

Special designs and special materials are available on request. We tailor components also to our customers' specifications.

We do not draw upon having a fixed array of products available for our clients. Our nearly 10.000 components of our product range enable solutions for almost every case of application.

In case your demand for delivery has not been met to your satisfaction, we are in the position and ready to create new products together with and for our customers. We would be happy to be at your command for a non-binding consultation.

INHALTSVERZEICHNIS

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Zulassungen und Eigenschaften

Approvals and Certification

Metallsortiment

Metal-Range

Produkt product	Typ type	Material material	Mantel cover	Temperatur temperature		Flammschutz flame class		Zulassungen approvals		Katalog catalogue
				min.	max.					
Schutzschlauch conduit	NZ DAN NDX	Stahl verzinkt Edelstahl galv. steel stainless steel	-	-60°C -60°C	+250°C +600°C	-		(POCC IT.AB28.H14420) (POCC IT.AB28.H14422)		Hauptkatalog main-catalogue
Schutzschlauch conduit	T TP	Stahl verzinkt Galv. steel	Geflecht braid	-60°C -60°C	+250°C +150°C	-		(POCC IT.AB28.H14420)		Hauptkatalog main-catalogue
Schutzschlauch conduit	SV SVT	Stahl verzinkt Edelstahl galv. steel stainless steel	PVC + Geflecht braid	-20°C	70°C	UL94 V0	EN 61386-1			Hauptkatalog main-catalogue
Schutzschlauch conduit	SVPEVA SVPEVAT SVPE- VAT.X SVPE- VAT.CU	Stahl verzinkt galv. steel Edelstahl stainless steel Kupfer copper	Polyethy- len-EVA + Geflecht Polyethy- lene-EVA + braid	-30°C	+90°C kurzzeitig 105°C short term 105°C	UL94 V0	EN 45545-2	HL3	 	Hauptkatalog main-catalogue Bahn-Katalog railway catalogue
							UNI CEI 11170-3	LR4		
							EN ISO 11925-2	COMPLIES		
							ASTM E162	COMPLIES		
							ASTM R662	COMPLIES		
							ASTM E1354	COMPLIES		
							BOEING BSS7239	COMPLIES		
							SMP 800-C	COMPLIES		
							EN 61386-23	TAC (ELE 143710CS)		
Schutzschlauch conduit	L P	Stahl verzinkt galv. steel	PVC	-20°C	+70°C	UL94 V0	EN 61386-1			Hauptkatalog main-catalogue
Schutzschlauch conduit	DAR DARX	Stahl verzinkt Edelstahl galv. steel stainless steel	PVC	-20°C	+70°C	UL94 V0	UL 1696	TAC (ELE 143710CS)	 	Hauptkatalog main-catalogue
							EN 61386-23			
Schutzschlauch conduit	LPU DAPU	Stahl verzinkt galv. steel	Polyuret- han Polyuret- hane	-45°C	+105°C kurzzeitig 130°C short term 130°C	UL94 V0	EN 45545-2	HL2	 	Hauptkatalog main-catalogue Bahn-Katalog railway catalogue
							NF F16 101	F1/I3		
							UNI CEI 11170-3	LR4		
							EN 61386-23	TAC (ELE 143710CS)		
								(POCC IT.AG98.H09427)		
Verschraubung fitting	NMF NMG	Messing vernickelt nickel plated brass	-	-45°C	+105°C			(POCC IT.AB28.H14424)		Hauptkatalog main-catalogue
Verschraubung fitting	CM	Messing vernickelt nickel plated brass	-	-45°C	+105°C			(POCC.IT.AB28.H14424)		Hauptkatalog main-catalogue
Verschraubung fitting	CMMF	Messing vernickelt nickel plated brass	-	-45°C	+105°C		UL1696	TAC (ELE 143710CS)	 	Hauptkatalog main-catalogue
Verschraubung fitting	EXCM	Messing vernickelt nickel plated brass	-	-45°C	+105°C		94/9/EC	TUV IT 13 ATEX 065 Q		Hauptkatalog main-catalogue
Verschraubung fitting	AR	Messing vernickelt nickel plated brass	-	-45°C	+105°C		94/9/EC			Hauptkatalog main-catalogue
Verschraubung fitting	EXAR	Messing vernickelt nickel plated brass	-	-45°C	+105°C		94/9/EC	TUV IT 13 ATEX 065 Q		Hauptkatalog main-catalogue
Verschraubung fitting	EXFI	Messing vernickelt nickel plated brass	-	-45°C	+105°C		94/9/EC	TUV IT 13 ATEX 065 Q		Hauptkatalog main-catalogue
Rohr pipe	STD	Stahl verzinkt zinc coated rolled strip	-	-25°C	+150°C	EN 61386-21	5545 (EM575)			Hauptkatalog main-catalogue
							(POCC IT.AB28.H14420)			
Rohr pipe	STDx	Edelstahl stainless steel	-	-45°C	+400°C	EN 61386-21	5545 (EM575)			Hauptkatalog main-catalogue
							(POCC IT.AB28.H14420)			

Wellrohr-Sortiment

Corrugated Conduit-Range

Produkt product	Typ type	Material material	Mantel cover	Temperatur temperature		Flammschutz flame class	Zulassungen approvals		Katalog catalogue	
				min.	max.					
Wellrohr corrugated conduit	TM	Polyamid 6	-	-40°C	+ 120°C	UL94 HB			Hauptkatalog main-catalogue	
				kurzzeitig +150°C short-term +150°						
Wellrohr corrugated conduit	TP	Polyamid 6	-	-40°C	+ 120°C	UL94 V0			Hauptkatalog main-catalogue	
				kurzzeitig +150°C short-term +150°						
Wellrohr corrugated conduit	ECO ECOT	Polyamid 6	ECOT Geflecht braid	-40°C	+ 120°C	UL94 HB	EN 61386-23	TAC (ELE 143710CS)	    	Hauptkatalog main-catalogue
								PDA (618505)		
				kurzzeitig +150°C short-term +150°				TAC (E-10286)		
								(POCC IT.AG98.H09427)		
Wellrohr corrugated conduit	ESP	Polyamid 6	-	-40°C	+ 120°C	UL94 V2	UL 1696	E124066	  	Bahn-Katalog railway catalogue
				kurzzeitig +150°C short-term +150°			EN 61386-23	TAC (ELE 143710CS) (POCC IT.AG98.H09427)		
Wellrohr corrugated conduit	HCP	Polyamid 6	-	-40°C	+ 120°C	UL94 V0	UL1696	E124066	  	Hauptkatalog main-catalogue
				kurzzeitig +150°C short-term +150°			EN 61386-23	TAC (ELE 143710CS) (POCC IT.AG98.H09427)		
Wellrohr corrugated conduit	SMP SMPT	Polyamid 6	SMPT Geflecht braid	-40°C	+ 120°C	UL94 V2	UNI CEI 11170-3	LR5	  	Bahn-Katalog railway catalogue
							SMP 800-C	COMPLIES		
							DIN 5510-2	S4/SR2/ST2		
							ASTM E162	COMPLIES		
							ASTM E662	COMPLIES		
							ASTM E1354	COMPLIES		
							BOEING BSS7239	COMPLIES		
							NF F16 101	F1		
							TAC	ELE 143710CS		
							UL1696	E124066		
EN 61386-23	(POCC IT.AG98.H09427)									
Wellrohr corrugated conduit	RWP RWPT	Polyamid 6	RWPT Geflecht braid	-40°C	+ 120°C	UL94 V0	EN 45545-2	HL2	  	Bahn-Katalog railway catalogue
							UNI CEI 11170-3	LR4		
							SMP 800-C	COMPLIES		
							DIN 5510-2	S4/SR2/ST2		
							ASTM E162	COMPLIES		
							ASTM E662	COMPLIES		
							ASTM E1354	COMPLIES		
							BOEING BSS7239	COMPLIES		
							NF F16 101	F1/I3		
							EN 61386-23	TAC (ELE 143710CS) (POCC IT.AG98.H09427)		
Wellrohr corrugated conduit	LTP	Polyamid 6	-	-40°C	+ 120°C	UL94 V0	EN 45545-2	HL2	 	Bahn-Katalog railway catalogue
							kurzzeitig +150°C short-term +150°			
				kurzzeitig +150°C short-term +150°			EN 61386-23	(POCC IT.AG98.H09427)		
							DIN 5510-2			
Wellrohr corrugated conduit	FDA	Polyamid 6	TPE	0°C	+100°C	UL94 HB	UNI 1186 1-15	FOOD CONTACT	 	Hauptkatalog main-catalogue
				kurzzeitig +150°C short-term +150°C			UNI 10192	FOOD CONTACT		

Produkt product	Typ type	Material material	Mantel cover	Temperatur temperature		Flammschutz flame class	Zulassungen approvals			Katalog catalogue
				min.	max.					
Wellrohr corrugated conduit	UCV/UCP/ UCF	Polyamid 6 Polyamid 12	-	-40°C	+ 120°C	UL94 V0	ASTM E162	COMPLIES	   	Bahn-Katalog railway catalogue
							ASTM E662	COMPLIES		
							ASTM E1354	COMPLIES		
				SMP 800-C	COMPLIES					
				BOEING BSS7239	COMPLIES					
				UL1660	E320537					
EN 61386-23	(POCC IT.AG98.H09427)									
Wellrohr corrugated conduit	RSP	Polyamid 12	-	-50°C	+ 95°C	UL94 V2	ROBOTER- Anwendung	(POCC IT.AG98.H09427)		Hauptkatalog main-catalogue
				kurzzeitig +150°C short-term +150°C						
Wellrohr corrugated conduit	ESD	Polyamid 12	-	-40°C	+110°C kurzzeit- tig 150°C	UL94HB	Antistatisch	IEC 60093		Hauptkatalog main-catalogue
Wellrohr corrugated conduit	RSP RSPT	Polyamid 12	RSPT Geflecht braid	-50°C	+ 95°C	UL94 V2		(POCC IT.AG98.H09427)		Hauptkatalog main-catalogue
				kurzzeitig +150°C short-term +150°C						
Wellrohr corrugated conduit	RLTP	Polyamid 12	-	-50°C	+ 95°C	UL94 V 2	EN45545-2	HL2	  	Bahn-Katalog railway catalogue
							UNI CEI 11170-3	LR4		
							NF F16 101	F2/I3		
							DIN 550-2	S4/SR2/ST2		
							ASTM E162	COMPLIES		
				ATM E662	COMPLIES					
				ASTM E1354	COMPLIES					
				SMP 800-C	COMPLIES					
				BOEING BSS7239	COMPLIES					
				EN 61386-23	(POCC IT.AG98.H09427)					
Wellrohr corrugated conduit	TGM	Polypropylen mod..	-	-40°C	+ 105°C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +140°C short-term +140°						
Wellrohr corrugated conduit	HT	Thermoplasti- sches Polyester Elastomer	-	-40°C	+150°C	UL94 V2	UNI CEI 11170-3	LR4	 	Bahn-Katalog railway catalogue
							NF F16 101	I3/F2		
							EN 61386-23	TAC (ELE 143710CS)		
Wellrohr corrugated conduit	PE	Polyethylen	-	-40°C	+ 70°C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +90°C short-term +90°						
Wellrohr corrugated conduit	EVA	Ethylenvinylacetat	-	-40°C	+ 55°C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +65°C short-term +65°						
Wellrohr corrugated conduit	TPE	Thermoplasti- sches Elastomer	-	-30°C	+ 150°C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +180°C short-term +180°						
Wellrohr corrugated conduit	POL	Polyelyfin	-				BS6853	IA EXT/IB INT		Hauptkatalog main catalogue Bahn-Katalog railway catalogue
							EN 61386-23			
Wellrohr corrugated conduit	PVF	Polyvinyliden- fluorid	-	-60°C	+150°C	UL94 V0	EN 61386 DIN 53474 EN ISO 4589-1			Hauptkatalog main-catalogue
kurzzeitig 160°C short-term +160°C										
Wellrohr corrugated conduit	PFA	Perfluoralkoxy Polymer	-	-200°C	+260°C	UL94 V0				Hauptkatalog main-catalogue
				kurzzeitig +285°C short-term +285°C						
Teilbares Wellrohr Split conduit	PADC	Polyamid 6	-	-40°C	+120°C	UL94 V2				Hauptkatalog main-catalogue
				kurzzeitig +150°C short-term +150°						

Produkt product	Typ type	Material material	Mantel cover	Temperatur temperature		Flammschutz flame class		Zulassungen approvals		Katalog catalogue
				min.	max.					
Teilbares Wellrohr split conduit	PPDC	Polypropylen mod.	-	-40°C	+135°C	UL94 V2				Hauptkatalog main-catalogue
Verschraubung fitting	JAW-FIT IP66 IP68 IP69K	Polyamid 6	-	-40°C	+120°C	UL94 V2	UNI CEI 11170-3	LR4	    	Hauptkatalog main-catalogue Bahn-Katalog railway catalogue
							NF F16 101	I3/F2		
							EN 45545-2	HL2		
							ASTM E162	COMPLIES		
							ASTM E662	COMPLIES		
							ASTM E1354	COMPLIES		
							SMP 800-C	COMPLIES		
							UL1696	E124066		
							UL514b	E320539		
							DIN 5510-2	TAC (ELE 143710CS)		
							IP69K	(POCC IT.AG98.H09427)		
								S4/SR2/ST2		

Kunststoffsoriment

PLASTIC-Range

Produkt product	Typ type	Material material	Mantel cover	Temperatur temperature		Flammschutz flame class		Zulassungen approvals		Katalog catalogue
				min.	max.					
Schutzschlauch	GL	PVC	-	-15° C	+70° C	UL94 V0				Hauptkatalog main-catalogue
Schutzschlauch	GL18	PVC	-	-15° C	+70° C	UL94 V0				Hauptkatalog main-catalogue
Schutzschlauch	GLD12	PVC	-	-15° C	+70° C	UL94 HB				Hauptkatalog main-catalogue
Schutzschlauch	GF GFT	PVC	GFT Geflecht braid	-15° C	+70° C	UL94 V0				Hauptkatalog main-catalogue
Schutzschlauch	PAHB	Polyamid 6	-	-40° C	+120° C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +150° C short term +150° C						
Schutzschlauch	PEHB	Polyester	-	-50° C	+260° C	UL94 HB				Hauptkatalog main-catalogue
Schutzschlauch	HJT	Silicon Glasfaser glass fibre	-		+1650° C	UL94 V0				Hauptkatalog main-catalogue
Schutzschlauch	Spiralzip	Polypropylen	-	-40° C	+105° C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +140° C short term +140° C						
Schutzschlauch	Spiralflex	Polyethylen	-	-40° C	+70° C	UL94 HB				Hauptkatalog main-catalogue
				kurzzeitig +90° C short term +90° C						

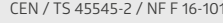
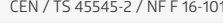
Metall-Schutzschläuche für elektrische Kabel & Leitungen

	Typ	Grundschauch	Ummantelung	Außenmantel	Flammschutz	Temperatur	Besondere Zulassungen	Seite
	NZ DAN	Stahl verzinkt	✗	✗	✗	-50°C bis +250°C	 	10
	NDX	Edelstahl	✗	✗	✗	-50°C bis +600°C	 	10
	T T-INOX	Stahl verzinkt	✗	Stahlgeflecht Edelstahlgeflecht	✗	-60°C bis +250°C	 	11
	TP TP-INOX	Stahl verzinkt	✗	Stahlgeflecht Edelstahlgeflecht	✗	-60°C bis +150°C	 	11
	SV	Stahl verzinkt	PVC	✗	UL94 VO	-15°C bis +70°C		12
	SVT SVT-INOX	Stahl verzinkt	PVC	Stahlgeflecht Edelstahlgeflecht	✗	-20°C bis +70°C	 	12
	SVPU	Stahl verzinkt	Polyurethan	✗	UL94 VO	-40°C bis +90°C kurzzeitig +125°C		Auf Anfrage
	SVPEVA	Stahl verzinkt	Polyethylen	✗	UL94 VO	-30°C bis +90°C kurzzeitig +105°C	   CEN/TS 45545-2 / NF F 16-101	13
	SVPEVAT SVPEVAT-INOX SVPEVAT-CU	Stahl verzinkt	Polyethylen	Stahlgeflecht Edelstahlgeflecht Kupfergeflecht	✗	-30°C bis +90°C kurzzeitig +105°C	    CEN/TS 45545-2 / NF F 16-101	13
	L / DAR	Stahl verzinkt	PVC	✗	UL94 VO	-20°C bis +70°C	  	14
	DARX	Edelstahl	PVC	✗	UL94 VO	-20°C bis +70°C	  	15
	P	Stahl verzinkt	PVC	✗	UL94 VO	-20°C bis +70°C		15
	LPU / DAPU	Stahl verzinkt	Polyurethan	✗	UL94 VO	-45°C bis +105°C kurzzeitig +130°C	   CEN/TS 45545-2 / NF F 16-101	16

Metall-Schlauchverschraubungen für elektrische Kabel & Leitungen

	Serie	Material	Schutzgrad	Gewindearten	Besondere Zulassungen	Seite
	NM	Messing vernickelt	IP40 - IP67	Metrisch / PG / Zoll / NPT		17 – 18
	SV	Messing vernickelt	IP40	Metrisch / PG / Zoll / NPT		19 – 20
	CM	Messing vernickelt	IP40 - IP67	Metrisch / PG / Zoll / NPT	    	21 – 27

Protective Metal Conduits for Electric Cables and Conductors

	type	basic hose	cover	outer cover	flame class	temperature	special approvals	page
	NZ DAN	galvanized steel	✗	✗	✗	-50°C up to +250°C	 	10
	NDX	Stainless steel	✗	✗	✗	-50°C up to +600°C	 	10
	T T-INOX	galvanized steel	✗	steel braid stainless steel braid	✗	-60°C up to +250°C	 	11
	TP TP-INOX	galvanized steel	✗	steel braid stainless steel braid	✗	-60°C up to +150°C	 	11
	SV	galvanized steel	PVC	✗	UL94 V0	-15°C up to +70°C		12
	SVT SVT-INOX	galvanized steel	PVC	steel braid stainless steel braid	✗	-20°C up to +70°C	 	12
	SVPU	galvanized steel	Polyurethane	✗	UL94 V0	-40°C up to +90°C short-term +125°C		on request
	SVPEVA	galvanized steel	Polyethylene	✗	UL94 V0	-30°C up to +90°C short-term +105°C	  	13
	SVPEVAT SVPEVAT-X SVPEVAT-CU	galvanized steel	Polyethylene	steel braid stainless steel braid copper braid	UL94 V0	-30°C up to +90°C short-term +105°C	   	13
	L / DAR	galvanized steel	PVC	✗	UL94 V0	-20°C up to +70°C	  	14
	DARX	stainless steel	PVC	✗	UL94 V0	-20°C up to +70°C	  	15
	P	galvanized steel	PVC	✗	UL94 V0	-20°C up to +70°C		15
	LPU / DAPU	galvanized steel	Polyurethane	✗	UL94 V0	-45°C up to +105°C short-term +130°C	  	16

Metal Fittings for Electric Cables and Conductors

	series	material	degree of protection	thread	special approvals	page
	NM	nickel-plated brass	IP40 - IP67	Metric / PG / GAS / NPT		17– 18
	SV	nickel-plated brass	IP40	Metric / PG / GAS / NPT		19 – 20
	CM	nickel-plated brass	IP40 - IP67	Metric / PG / GAS / NPT	   	21 – 27

Metall-Schutzschlauch

TYP NZ - DAN - NDX

Material: Stahl verzinkt
Edelstahl (NDX)

Schutzart: IP50

Temperaturbereich: -50°C bis +250°C
NDX -50°C bis +600°C

Konstruktion:

Flexibler Metallschlauch mit einfacher (NZ) oder doppelter (DAN / NDX) Verklammerung / AGRAFF Profil.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen.

Protective Metal Conduit

TYPE NZ - DAN - NDX

Material: Galvanized steel
Stainless steel (NDX)

Protection rating: IP50

Temperature range: -50°C up to +250°C
NDX -50°C up to +600°C

Construction:

Flexible conduit with single (NZ) or double seam (DAN / NDX).

Applications:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology.



einsetzbar
applicable



Art. Nr. Art. No.	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
NZ05	5	5,0	7,0	12	100m
NZ06	6	6,0	8,0	14	100m
NZ07	7	7,0	9,0	16	100m
NZ08	8	8,0	11,0	16	50m
NZ09	9	9,0	11,5	18	50m
NZ10	10	10,0	13,0	19	50m
NZ11	11	11,0	14,0	20	50m
NZ12	12	12,0	15,0	22	50m
NZ13	13	13,0	16,0	24	50m
NZ14	14	14,0	17,0	25	50m
NZ15	15	15,5	18,5	27	50m
NZ16	16	16,0	19,0	29	50m
NZ17	17	17,0	19,0	30	50m
NZ18	18	18,0	21,5	30	50m
NZ20	20	20,5	24,0	33	50m
NZ21	21	21,0	24,5	35	50m
NZ23	23	23,0	26,5	38	50m
NZ25	25	25,0	28,5	41	50m
NZ27	27	26,5	30,0	43	50m
NZ28	28	28,0	31,5	45	50m
NZ30	30	30,0	33,5	49	25m
NZ33	33	33,0	36,5	120	25m
NZ35	35	35,0	39,5	127	25m
NZ37	37	37,0	41,3	134	25m
NZ40	40	40,0	44,3	144	25m
NZ45	45	45,0	49,3	161	25m
NZ50	50	50,5	54,8	178	25m
NZ52	52	52,0	56,3	185	25m



Art. Nr. Art. No.	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
DAN010	10	10,0	13,0	35	50m
DAN012	12	12,0	15,0	40	50m
DAN013	13	13,0	16,0	44	50m
DAN015	15	15,5	18,5	51	50m
DAN018	18	18,0	21,0	78	50m
DAN020	20	20,5	24,1	88	50m
DAN025	25	25,0	28,0	107	50m
DAN027	27	26,5	29,5	113	50m
DAN033	33	33,0	36,6	105	25m
DAN035	35	35,0	38,6	110	25m
DAN040	40	40,0	43,6	126	25m
DAN050	50	50,5	54,1	157	25m
DAN065	65	65,0	70,0	259	25m
DAN075	75	75,0	80,0	298	25m
DAN100	100	100,0	105,0	393	25m

Passende Verschraubungen Suitable fittings



NM Serie (S.17-18)
NM series (S.17-18)



SV Serie (S.19-20)
SV series (S.19-20)



Art. Nr. Art. No.	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
NDX04	4	4,0	6,0	21	50m
NDX05	5	5,0	7,0	25	50m
NDX06	6	6,0	8,4	22	50m
NDX07	7	7,0	9,4	25	50m
NDX08	8	8,0	11,0	43	50m
NDX10	10	10,0	13,0	34	50m
NDX12	12	12,0	15,0	40	50m
NDX13	13	13,0	16,0	43	50m
NDX15	15	15,0	18,0	55	50m
NDX18	18	18,0	21,0	65	50m
NDX20	20	20,0	24,8	75	50m
NDX25	25	25,0	29,8	91	50m
NDX27	27	26,5	29,1	93	25m
NDX33	33	33,0	37,5	122	20m
NDX35	35	35,0	39,5	129	20m
NDX40	40	40,0	44,5	146	25m
NDX50	50	50,5	55,0	182	25m
NDX65	65	65,0	70,0	232	27m
NDX75	75	75,0	80,0	268	27m
NDX100	100	100,0	105,0	353	13,2m

Passendes Zubehör Suitable accessories



EESO (S.26) BCM (S.26) VCM (S.26)

Metall-Schutzschlauch

TYP T-TP / EMV

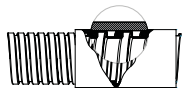
Material: Stahl verzinkt,
Stahlgeflecht / VA
TP- Baumwollfaden

Schutzart: IP54 / IP55

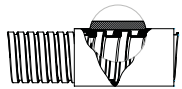
Temperaturbereich: -60°C bis +250°C (T)
-50°C bis +150°C (TP)

Konstruktion:
Flexibler Metallschlauch aus verzinktem Stahl mit einfacher Verklammerung und Stahlgeflecht.

Einsatzbereiche:
Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik, EMV-Anwendungen.



Art. Nr. Art. No.	Art. Nr. VA Art. No. INOX	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
T09	T09X	9	8,5	13,0	30	50m
T10	T10X	10	10,0	14,0	40	50m
T12	T12X	12	12,0	16,0	50	50m
T13	T13X	13	13,0	18,0	60	50m
T15	T15X	15	15,5	20,0	60	50m
T18	T18X	18	18,0	24,0	65	50m
T20	T20X	20	20,5	26,0	65	50m
T25	T25X	25	25,0	31,0	70	50m
T27	T27X	27	26,5	33,0	90	50m
T33	T33X	33	33,0	40,0	140	25m
T35	T35X	35	35,0	42,0	150	25m
T40	T40X	40	40,0	47,0	170	25m
T50	T50X	50	50,5	57,0	200	25m



Art. Nr. Art. No.	Art. Nr. VA Art. No. INOX	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
TP09	TP09X	9	8,5	13,0	30	50m
TP10	TP10X	10	10,0	14,0	40	50m
TP12	TP12X	12	12,0	16,0	50	50m
TP13	TP13X	13	13,0	18,0	60	50m
TP15	TP15X	15	15,5	20,0	60	50m
TP18	TP18X	18	18,0	24,0	65	50m
TP20	TP20X	20	20,5	26,0	65	50m
TP25	TP25X	25	25,0	31,0	70	50m
TP27	TP27X	27	26,5	33,0	90	50m
TP33	TP33X	33	33,0	40,0	140	25m
TP35	TP35X	35	35,0	42,0	150	25m
TP40	TP40X	40	40,0	47,0	170	25m
TP50	TP50X	50	50,5	57,0	200	25m
TP65	TP65X	65	65,0	73,0	270	27m
TP75	TP75X	75	75,0	83,0	340	27m

Protective Metal Conduit

TYPE T-TP / EMV

Material: Galvanized steel,
Steel braid / INOX
TP-yarn seal

Protection rating: IP54 / IP55

Temperature range: -60C up to +250°C (T)
-50°C up to +150°C (TP)

Construction:
Galvanized flexible metal conduit with single seam and steel braid.

Applications:
Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, EMC application.



einsetzbar
applicable

Passende Verschraubungen

Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

Passendes Zubehör

Suitable accessories



EESO (S.26) BCM (S.26)



VCM (S.26)

Passende Verschraubungen

Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

Passendes Zubehör

Suitable accessories



EESO (S.26) BCM (S.26)



VCM (S.26)

Metall-Schutzschlauch

FLÜSSIGKEITSDICHT
TYP SV

Material: Stahl verzinkt
PVC-Mantel

Schutzart: IP68

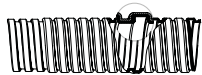
Temperaturbereich: -15°C bis +70°C

Konstruktion:

Flexibler Metallschlauch aus verzinktem Stahl mit einfacher Verklammerung und leichter PVC-Ummantelung.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik. UV- und alterungsbeständig. Sehr gute Chemikalienbeständigkeit.



Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
SV07N	SV07G	7	7,0	10,0	25	100m
SV09N	SV09G	9	9,0	11,5	30	100m
SV10N	SV10G	10	10,0	13,5	40	50m
SV12N	SV12G	12	12,0	15,5	45	50m
SV13N	SV13G	13	13,0	16,5	50	50m
SV15N	SV15G	15	15,5	19,0	60	50m
SV20N	SV20G	20	20,5	25,0	70	50m
SV21N	SV21G	21	21,0	26,0	75	50m
SV25N	SV25G	25	25,0	30,0	100	50m
SV28N	SV28G	28	28,0	32,5	120	25m
SV37N	SV37G	37	37,0	42,5	150	25m
SV40N	SV40G	40	40,0	45,0	160	25m
SV45N	SV45G	45	45,0	51,0	180	25m
SV50N	SV50G	50	50,5	56,0	200	25m
SV52N	SV52G	52	52,0	58,0	230	25m

Protective Metal Conduit

LIQUIDPROOF
TYPE SV

Material: Galvanized steel
PVC cover

Protection rating: IP68

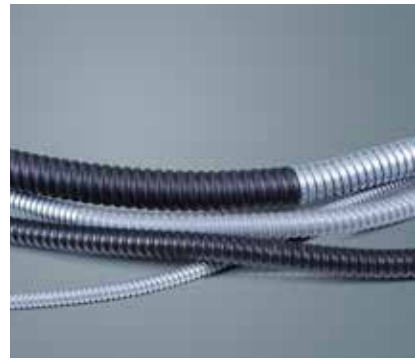
Temperature range: -15°C up to +70°C

Construction:

Galvanized flexible metal conduit with single seam and light PVC cover.

Applications:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology, UV-resistant, resistant to aging, good resistance to oil and chemicals.



Auf Anfrage:

Polyurethan-Mantel SVPU

On request:

Polyurethane-cover SVPU

Passende Verschraubungen

Suitable fittings



NM Serie (S.17-18)
NM series (S.17-18)



SV Serie (S.19-20)
SV series (S.19-20)

Passendes Zubehör

Suitable accessories



EESO
(S.26)



VCM
(S.26)

Metall-Schutzschlauch

FLÜSSIGKEITSDICHT
TYP SVT / EMV

Material: Stahl verzinkt / VA
PVC-Mantel Stahlgeflecht

Schutzart: IP68

Temperaturbereich: -20°C bis +70°C

Konstruktion:

Flexibler Metallschlauch aus verzinktem Stahl mit einfacher Verklammerung, leichter PVC-Ummantelung und Stahl- / Edelstahlgeflecht.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik, EMV-Anwendungen.



Art. Nr. Art. No.	Art. Nr. VA Art. No. INOX	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
SVT09	SVT09X	9	8,5	13,0	40	50m
SVT10	SVT10X	10	10,0	15,0	40	50m
SVT12	SVT12X	12	12,0	17,0	50	50m
SVT13	SVT13X	13	13,0	19,0	50	50m
SVT15	SVT15X	15	15,5	21,0	55	50m
SVT18	SVT18X	18	18,0	25,0	60	50m
SVT20	SVT20X	20	20,5	27,0	60	50m
SVT25	SVT25X	25	25,0	32,0	75	50m
SVT27	SVT27X	27	26,5	34,0	85	50m
SVT33	SVT33X	33	33,0	41,0	130	25m
SVT35	SVT35X	35	35,0	43,0	150	25m
SVT40	SVT40X	40	40,0	48,0	180	25m
SVT50	SVT50X	50	50,5	58,5	250	25m

Protective Metal Conduit

LIQUIDPROOF
TYPE SVT / EMC

Material: Galvanized steel / INOX
PVC cover / steel braid

Protection rating: IP68

Temperature range: -20°C up to +70°C

Construction:

Galvanized flexible metal conduit with single seam, light PVC cover and steel braid / stainless.

Application:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology, EMC-application.



einsetzbar
applicable

Passende Verschraubungen

Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

Passendes Zubehör

Suitable accessories



EESO
(S.26)



BCM
(S.26)



VCM
(S.26)

Metall-Schutzschlauch

TYP SVPEVA / SVPEVAT

Material: Stahl verzinkt., PE / EVA
SVPEVAT: Drahtgeflecht
SVPEVATX: VA-Geflecht
SVPEVATCU: Kupfergeflecht
Temperatur: -30°C bis +90°C
 kurzzeitig bis +105°C

Konstruktion:

Flexibler Metallschlauch aus verzinktem Stahl mit einfacher Verklammerung, leichter PE-EVA-Ummantelung (SVPEVA) und Stahlgeflecht (SVPEVAT)

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik, UV- und alterungsbeständig. Sehr gute Chemikalienbeständigkeit.

Protective Metal Conduit

TYPE SVPEVA / SVPEVAT

Material: Galvanized steel, PE / EVA
SVPEVAT: Steel braid
SVPEVATX: Stainless steel braid
SVPEVATCU: Copper braid
Temperature: -30°C up to +90°C
 short-time +105°C

Construction:

Galvanized flexible metal conduit with single seam, light PE-EVA cover (SVPEVA) and steel braid / Inox (SVPEVAT)

Applications:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology, EMC-application, free of halogens



Halogenfrei DIN 53474
 Halogen-free DIN EN 53474



einsetzbar
 applicable



+105°C
 -30

Art. Nr. Art. No.	NW mm	ID mm	AD mm	VPE Unit
SVPEVA10	10	10	13,5	50
SVPEVA12	15	12	15,5	50
SVPEVA15	20	15,5	19,0	50
SVPEVA20	22	20,5	25,0	50
SVPEVA27	25	26,6	31,7	50
SVPEVA35	30	34,8	41	25
SVPEVA40	35	39,7	46	25
SVPEVA50	40	49,9	56	25

Passende Verschraubungen
 Suitable fittings



CM Serie (S.21-27)
 CM series (S.21-27)

Passendes Zubehör
 Suitable accessories



EESO
 (S.26)



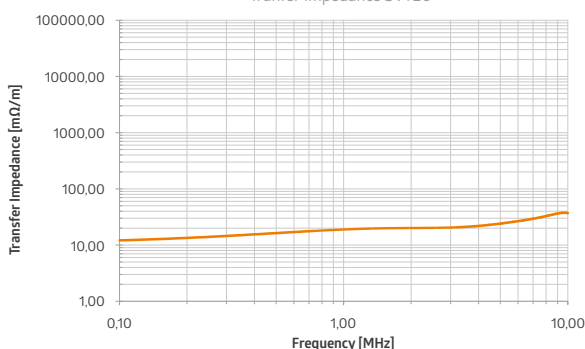
BCM
 (S.26)



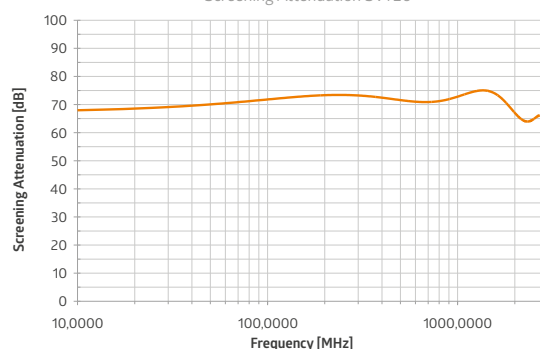
VCM
 (S.26)

Stahl-Geflecht Steel braid	VA-Geflecht INOX braid	Kupfer-Geflecht Copper braid	NW DN	ID mm	AD mm	VPE Unit
SVPEVAT10	SVPEVAT10X	SVPEVAT10CU	10	10	15	50
SVPEVAT12	SVPEVAT12X	SVPEVAT12CU	15	12	17	50
SVPEVAT15	SVPEVAT15X	SVPEVAT15CU	20	15,5	21	50
SVPEVAT20	SVPEVAT20X	SVPEVAT20CU	22	20,5	27	50
SVPEVAT27	SVPEVAT27X	SVPEVAT27CU	25	26,6	34	50
SVPEVAT35	SVPEVAT35X	SVPEVAT35CU	30	34,8	43	25
SVPEVAT40	SVPEVAT40X	SVPEVAT40CU	35	39,7	48	25
SVPEVAT50	SVPEVAT50X	SVPEVAT50CU	40	49,9	58,5	25

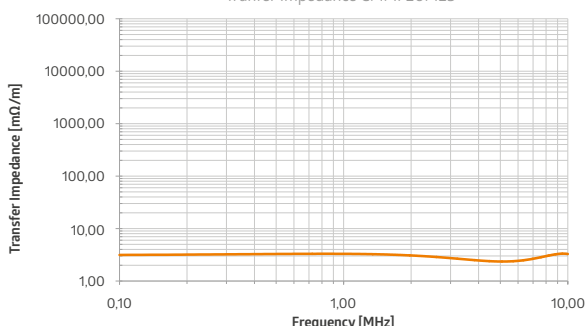
Kopplungswiderstand SVT20
 Transfer Impedance SVT20



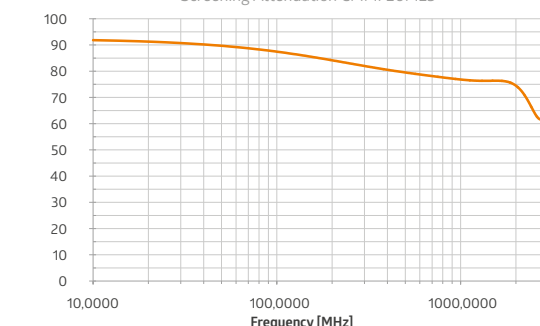
Schirmdämpfung SVT20
 Screening Attenuation SVT20



Kopplungswiderstand CMMF20M25
 Transfer Impedance CMMF20M25



Schirmdämpfung CMMF20M25
 Screening Attenuation CMMF20M25



Metall-Schutzschlauch

FLÜSSIGKEITSDICHT
TYP L - DAR

Material: Stahl verzinkt,
PVC-Mantel

Schutzart: IP68

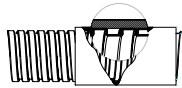
Temperaturbereich: -20°C bis +70°C

Konstruktion:

Flexibler Metallschlauch aus verzinktem Stahl mit einfacher (L) oder doppelter (DAR) Verklammerung und glatter, robuster PVC-Ummantelung.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik. UV- und alterungsbeständig. Sehr Gute Chemikalienbeständigkeit. Selbstverlöschend VO nach UL94.



Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
L09N	L09G	9	8,5	13,0	40	50m
L10N	L10G	10	10,0	15,0	50	50m
L12N	L12G	12	12,0	17,0	60	50m
L13N	L13G	13	13,0	19,0	65	50m
L15N	L15G	15	15,5	21,0	70	50m
L18N	L18G	18	18,0	25,0	80	50m
L20N	L20G	20	20,5	27,0	90	50m
L25N	L25G	25	25,0	32,0	110	25m
L27N	L27G	27	26,5	34,0	120	25m
L33N	L33G	33	33,0	41,0	140	20m
L35N	L35G	35	35,0	43,0	150	20m
L40N	L40G	40	40,0	48,0	200	20m
L50N	L50G	50	50,5	58,5	250	20m

Protective Metal Conduit

LIQUIDPROOF
TYPE L - DAR

Material: Galvanized steel,
PVC cover

Protection rating: IP68

Temperature range: -20°C up to +70°C

Construction:

Galvanized flexible metal conduit with single (L) or double (DAR) seam and smooth, robust PVC cover.

Applications:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology, UV-resistant, resistant to aging, very good resistance to oil and chemicals, self-extinguishing VO according to UL94.



L = Einfache Verklammerung
L = Single seam



DAR = Doppelte Verklammerung (AGRAFF)
DAR = Double seam

Passende Verschraubungen Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

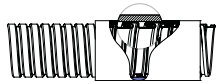
Passendes Zubehör Suitable accessories



EESO
(S.26)



VCM
(S.26)



Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
DAR010N	DAR010G	10	10,0	15,0	60	50m
DAR012N	DAR012G	12	12,0	17,0	70	50m
DAR013N	DAR013G	13	13,0	19,0	80	50m
DAR015N	DAR015G	15	15,5	21,0	90	50m
DAR018N	DAR018G	18	18,0	25,0	100	50m
DAR020N	DAR020G	20	20,5	27,0	120	50m
DAR025N	DAR025G	25	25,0	32,0	130	25m
DAR027N	DAR027G	27	26,5	34,0	140	25m
DAR033N	DAR033G	33	33,0	41,0	180	20m
DAR035N	DAR035G	35	35,0	43,0	190	20m
DAR040N	DAR040G	40	40,0	48,0	240	20m
DAR050N	DAR050G	50	50,5	58,5	300	20m
DAR065N	DAR065G	65	65,0	74,0	450	20m
DAR075N	DAR075G	75	75,0	84,0	500	20m
DAR100N	DAR100G	100	100,0	109,0	750	10m

Passende Verschraubungen Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

Passendes Zubehör Suitable accessories



EESO
(S.26)



VCM
(S.26)

Metall-Schutzschlauch

FLÜSSIGKEITSDICHT
TYP DARX

Material: Edelstahl 1.4301
PVC-Mantel

Schutzart: IP68

Temperaturbereich: -20°C bis +70°C

Konstruktion:

Flexibler Metallschlauch aus Edelstahl mit doppelter Verklammerung und glatter, robuster PVC-Ummantelung.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik.



Protective Metal Conduit

LIQUIDPROOF
TYPE DARX

Material: Stainless steel AISI 304
PVC cover

Protection rating: IP68

Temperature range: -20°C up to +70°C

Construction:

Stainless steel flexible conduit with double seam and smooth, robust PVC cover.

Application:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology.

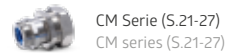


Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
DARX010N	DARX010G	10	10,0	15,0	60	50m
DARX012N	DARX012G	12	12,0	17,0	70	50m
DARX013N	DARX013G	13	13,0	19,0	80	50m
DARX015N	DARX015G	15	15,5	21,0	90	50m
DARX018N	DARX018G	18	18,0	25,0	100	50m
DARX020N	DARX020G	20	20,5	27,0	120	50m
DARX025N	DARX025G	25	25,0	32,0	130	25m
DARX027N	DARX027G	27	26,5	34,0	140	25m
DARX033N	DARX033G	33	33,0	41,0	180	20m
DARX035N	DARX035G	35	35,0	43,0	190	20m
DARX040N	DARX040G	40	40,0	48,0	240	20m
DARX050N	DARX050G	50	50,5	58,5	300	20m
DARX065N	DARX065G	65	65,0	74,0	450	20m
DARX075N	DARX075G	75	75,0	84,0	500	20m
DARX100N	DARX100G	100	100,0	109,0	700	10m



Passende Verschraubungen

Suitable fittings



Passendes Zubehör

Suitable accessories



Metall-Schutzschlauch

FLÜSSIGKEITSDICHT
TYP P

Material: Stahl verzinkt,
PVC-Mantel
Baumwollfaden

Schutzart: IP68

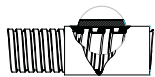
Temperaturbereich: -20°C bis +70°C

Konstruktion:

Flexibler Metallschlauch aus verzinktem Stahl mit einfacher Verklammerung, glatter, robuster PVC-Ummantelung und Baumwollfaden.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik.



Protective Metal Conduit

LIQUIDPROOF
TYPE P

Material: Galvanized steel,
PVC cover,
cotton yarn seal

Protection rating: IP68

Temperature range: -20°C up to +70°C

Construction:

Galvanized flexible metal conduit with single seam smooth, robust PVC cover and cotton yarn seal.

Applications:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology.



Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
P009N	P009G	9	8,5	13,0	40	50m
P010N	P010G	10	10,0	15,0	50	50m
P012N	P012G	12	12,0	17,0	60	50m
P013N	P013G	13	13,0	19,0	65	50m
P015N	P015G	15	15,5	21,0	70	50m
P018N	P018G	18	18,0	25,0	80	50m
P020N	P020G	20	20,5	27,0	90	50m
P025N	P025G	25	25,0	32,0	110	25m
P027N	P027G	27	26,5	34,0	120	25m
P033N	P033G	33	33,0	41,0	140	20m
P035N	P035G	35	35,0	43,0	150	20m
P040N	P040G	40	40,0	48,0	200	20m
P050N	P050G	50	50,5	58,5	250	20m
P065N	P065G	65	65,0	74,0	400	20m
P075N	P075G	75	75,0	84,0	450	20m
P100N	P100G	100	100,0	109,0	700	10m



Passende Verschraubungen

Suitable fittings



Passendes Zubehör

Suitable accessories



Metall-Schutzschlauch

FLÜSSIGKEITSDICHT
TYP LPU - DAPU

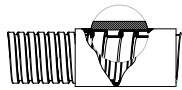
Material: Stahl verzinkt,
Polyurethan-Mantel
Schutzart: IP68
Temperaturbereich: -50°C bis +105°C
kurzzeitig +130°C

Konstruktion:

Flexibler Metallschlauch aus verzinktem Stahl mit einfacher (LPU) oder doppelter (DAPU) Verklammerung und glatter, robuster PU-Ummantellung.

Einsatzbereich:

Maschinen- und Anlagenbau, Fahrzeugbau, Schienenfahrzeuge, Schiffsbau, Automation, Elektroanlagen, Sensortechnik. UV- und alterungsbeständig. Sehr Gute Öl- und Chemikalienbeständigkeit. Selbstverlöschend VO nach UL94.



Art. Nr. Schwarz Art. No. Black	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
LPU09	9	8,5	13,0	40	50m
LPU10	10	10,0	15,0	50	50m
LPU12	12	12,0	17,0	60	50m
LPU15	15	15,5	21,0	70	50m
LPU20	20	20,5	27,0	90	50m
LPU25	25	25,0	32,0	110	25m
LPU27	27	26,5	34,0	120	25m
LPU33	33	33,0	41,0	140	20m
LPU35	35	35,0	43,0	150	20m
LPU40	40	40,0	48,0	200	20m
LPU50	50	50,5	58,5	250	20m



Art. Nr. Schwarz Art. No. Black	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
DAPU10	10	10,0	15,0	60	50m
DAPU12	12	12,0	17,0	70	50m
DAPU15	15	15,5	21,0	90	50m
DAPU20	20	20,5	27,0	120	50m
DAPU25	25	25,0	32,0	130	25m
DAPU27	27	26,5	34,0	140	25m
DAPU33	33	33,0	41,0	180	20m
DAPU35	35	35,0	43,0	190	20m
DAPU40	40	40,0	48,0	240	20m
DAPU50	50	50,5	58,5	300	20m

Protective Metal Conduit

LIQUIDPROOF
TYPE LPU- DAPU

Material: Galvanized steel,
Polyurethane-cover
Protection rating: IP68
Temperature range: -50°C up to +105°C
short-term +130°C

Construction:

Galvanized flexible metal conduit with single (LPU) or double (DAPU) seam and smooth, robust PU-cover.

Applications:

Machine and plant constructions, automotive, railway industrie, shipbuilding, automation, electrical installations, sensor technology, UV-resistant, resistant to aging, excellent resistance to oil and chemicals, self extinguishing VO according to UL94.



LPU = Einfache Verklammerung
LPU = Single seam



DAPU = Doppelte Verklammerung (AGRAFF)
DAPU = Double seam



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Passende Verschraubungen Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

Passendes Zubehör Suitable accessories



EESO
(S.26)



VCM
(S.26)

Passende Verschraubungen Suitable fittings



CM Serie (S.21-27)
CM series (S.21-27)

Passendes Zubehör Suitable accessories



EESO
(S.26)



VCM
(S.26)

Verschraubung Serie NM

TYP NMF

Material: Messing vernickelt
Ausführung: Aussengewinde, starr
Schutzart: IP67
Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring.

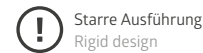
Fitting Series NM

TYPE NMF

Material: Nickel-plated brass
Design: Rigid male thread
Protection rating: IP67
Temperature range: -40°C up to +105°C

Construction:

Fitting body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-Seal.



Starre Ausführung
Rigid design



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
NMF10M12	M12	10	20	22	10	8,5	20
NMF10M16	M16	10	20	22	10	8,5	20
NMF10M20	M20	10	22	22	10	8,5	20
NMF12M16	M16	12	22	24	10	10,5	20
NMF12M20	M20	12	22	24	10	10,5	20
NMF13M16	M16	13	24	26	10	11,5	20
NMF13M20	M20	13	24	26	10	11,5	20
NMF15M20	M20	15	26	28	10	13,8	20
NMF18M25	M25	18	28	30	10	16,0	10
NMF20M25	M25	20	32	34	11	18,1	10
NMF27M32	M32	27	40	42	12	24,5	10
NMF35M40	M40	35	50	53	12	32,8	5
NMF40M50	M50	40	58	61	13	37,5	5
NMF50M63	M63	50	70	74	16	47,8	2



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
NMF10	1/4"	10	20	22	10	8,5	20
NMF10A	3/8"	10	20	22	10	8,5	20
NMF10B	1/2"	10	22	22	10	8,5	20
NMF12	3/8"	12	22	24	10	10,5	20
NMF12A	1/2"	12	22	24	10	10,5	20
NMF13	3/8"	13	24	26	10	11,5	20
NMF13A	1/2"	13	24	26	10	11,5	20
NMF15	1/2"	15	26	28	10	13,8	20
NMF18	3/4"	18	28	30	11	16,5	10
NMF20	3/4"	20	32	34	11	18,1	10
NMF27	1"	27	40	42	15	24,5	10
NMF35	1 1/4"	35	50	53	15	32,8	5
NMF40	1 1/2"	40	58	61	18	37,5	5
NMF50	2"	50	70	74	18	47,8	2



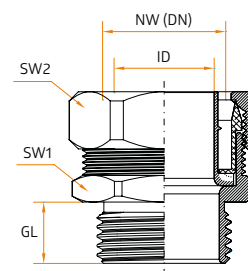
GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
NMF10PG09	PG09	10	20	22	10	8,5	20
NMF10PG11	PG11	10	20	22	10	8,5	20
NMF10PG13	PG13	10	22	22	10	8,5	20
NMF12PG09	PG09	12	22	24	10	10,5	20
NMF12PG11	PG11	12	22	24	10	10,5	20
NMF12PG13	PG13	12	22	24	10	10,5	20
NMF13PG11	PG11	13	24	26	10	11,5	20
NMF13PG13	PG13	13	24	26	10	11,5	20
NMF13PG16	PG16	13	24	26	10	11,5	20
NMF15PG13	PG13	15	26	28	10	13,8	20
NMF15PG16	PG16	15	26	28	10	13,8	20
NMF18PG16	PG16	18	28	30	10	16,0	10
NMF20PG21	PG21	20	32	34	11	18,1	10
NMF27PG29	PG29	27	40	42	12	24,5	10
NMF35PG36	PG36	35	50	53	12	32,8	5
NMF40PG36	PG36	40	58	61	17	37,5	5
NMF40PG42	PG42	40	58	61	13	37,5	5
NMF50PG48	PG48	50	70	74	18	47,8	2

Geeignet für Schläuche des Typs
Suitable for conduit types



Technische Zeichnung
Engineering drawing



Verschraubung Serie NM

TYP NMG

Material: Messing vernickelt
Ausführung: Aussengewinde, drehbar
Schutzart: IP67
Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring.

Fitting Series NM

TYPE NMG

Material: Nickel-plated brass
Design: Swivelling male thread
Protection rating: IP67
Temperature range: -40°C bis +105°C

Construction:

Fitting body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-seal.



! Drehbare Ausführung
 Swivelling design

GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
NMG10M12	M12	10	15	22	9	7,0	20
NMG10M16	M16	10	19	22	10	7,0	20
NMG10M20	M20	10	22	22	9	7,0	20
NMG12M16	M16	12	19	24	10	9,0	20
NMG12M20	M20	12	24	24	10	9,0	20
NMG13M16	M16	13	19	26	10	10,0	20
NMG13M20	M20	13	24	26	10	10,0	20
NMG15M20	M20	15	24	28	9,5	10,0	20
NMG18M25	M25	18	30	30	10	16,5	10
NMG20M25	M25	20	30	34	9,5	18,1	10
NMG27M32	M32	27	38	42	13	24	10
NMG35M40	M40	35	45	53	20	32,8	5
NMG40M50	M50	40	52	61	20	37,5	5
NMG50M63	M63	50	64	74	24,5	47,8	2

GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
NMG10	1/4"	10	15	22	10	7,0	20
NMG10A	3/8"	10	19	22	10	7,0	20
NMG10B	1/2"	10	24	22	10	7,0	20
NMG12	3/8"	12	19	24	10	10,0	20
NMG12A	1/2"	12	24	24	10	10,0	20
NMG13	3/8"	13	19	26	10	10,0	20
NMG13A	1/2"	13	24	26	10	10,0	20
NMG15	1/2"	15	24	28	10	10,0	20
NMG18	3/4"	18	30	30	11	16,5	10
NMG20	3/4"	20	30	34	11	18,1	10
NMG27	1"	27	38	42	15	24,5	10
NMG35	1 1/4"	35	45	53	15	32,8	5
NMG40	1 1/2"	40	52	61	18	37,5	5
NMG50	2"	50	66	74	18	47,8	2

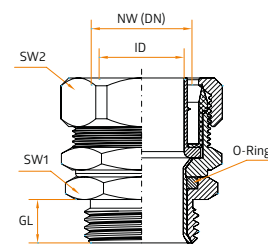
GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
NMG10PG09	PG09	10	17	22	7	7,0	20
NMG10PG11	PG11	10	20	22	7,5	7,0	20
NMG10PG13	PG13	10	22	22	7,5	7,0	20
NMG12PG09	PG09	12	19	24	8	7,0	20
NMG12PG11	PG11	12	20	24	7,5	10,0	20
NMG12PG13	PG13	12	22	24	7,5	10,0	20
NMG13PG11	PG11	13	20	26	7,5	10,0	20
NMG13PG13	PG13	13	22	26	7,5	10,0	20
NMG13PG16	PG16	13	24	26	7	10,0	20
NMG15PG13	PG13	15	22	28	7,5	10,0	20
NMG15PG16	PG16	15	24	28	7	10,0	20
NMG18PG16	PG16	18	24	30	9	15,0	10
NMG20PG21	PG21	20	30	34	9	18,1	10
NMG27PG29	PG29	27	38	42	12	24,0	10
NMG35PG36	PG36	35	52	53	20	32,8	5
NMG40PG36	PG36	40	52	61	20	37,7	5
NMG40PG42	PG42	40	58	61	20	37,7	5
NMG50PG48	PG48	50	66	74	25	47,8	2

Geeignet für Schläuche des Typs
 Suitable for conduit types



Technische Zeichnung
 Engineering drawing



Verschraubung Serie SV TYP SVMF

Material: Messing vernickelt
Ausführung: Aussengewinde, starr
Schutzart: IP40
Temperaturbereich: bis +200°C

Konstruktion:
 Verschraubungskörper mit integrierter
 Einschraubtülle aus Messing.

Fitting Series SV TYPE SVMF

Material: Nickel-plated brass
Design: Rigid male thread
Protection rating: IP40
Temperature range: up to +200°C

Construction:
 Fitting body with integrated ferrule
 made of nickel brass.



! Starre Ausführung
 Rigid design



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
SVMF10M16	M16	10	19	10	8,5	20
SVMF12M16	M16	12	19	10	10,0	20
SVMF12M20	M20	12	24	10	10,0	20
SVMF13M20	M20	13	24	10	11,5	20
SVMF15M20	M20	15	24	10	14,0	20
SVMF20M25	M25	20	28	10	18,5	10
SVMF21M25	M25	21	28	11	19,5	10
SVMF25M32	M32	25	36	12	23,0	10
SVMF28M32	M32	28	36	12	26,0	10
SVMF37M40	M40	37	45	12	35,0	5
SVMF45M50	M50	45	55	12	41,5	5
SVMF52M63	M63	52	64	15	48,5	5

Geeignet für Schläuche des Typs
 Suitable for conduit types



NZ
 DAN
 NDX
 (S.10)



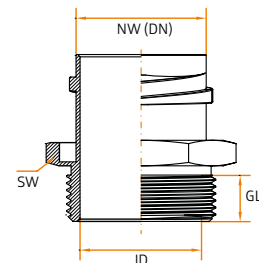
SV
 SVPE
 SVPU
 (S.12/13)



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
SVMF07	1/4"	7	15	8	5,5	20
SVMF09	1/4"	8,5	15	8	7,0	20
SVMF10	1/4"	10	19	8	8,5	20
SVMF10A	3/8"	10	19	8	8,5	20
SVMF12	3/8"	12	19	8	10,0	20
SVMF13	1/2"	13	24	10	11,5	20
SVMF15	1/2"	15	24	10	14,0	20
SVMF20	3/4"	20	28	10	18,5	10
SVMF21	3/4"	21	28	11	19,5	10
SVMF25	1"	25	36	12	23,0	10
SVMF28	1"	28	36	12	26,0	10
SVMF37	1 1/4"	37	45	12	35,0	5
SVMF45	1 1/2"	45	55	12	41,5	5
SVMF52	2"	52	64	15	48,5	5

Technische Zeichnung
 Engineering drawing



Verschraubung Serie SV TYP SVMG

Material: Messing vernickelt
Ausführung: Aussengewinde, drehbar
Schutzart: IP40
Temperaturbereich: bis +200°C

Konstruktion:

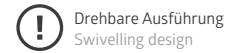
Verschraubungskörper mit integrierter
Einschraubtülle aus Messing.

Fitting Series SV TYPE SVMG

Material: Nickel-plated brass
Design: Swivelling male thread
Protection rating: IP40
Temperature range: up to +200°C

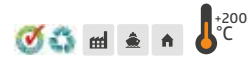
Construction:

Fitting body with integrated ferrule
made of nickel brass.



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
SVMG07M12	M12	7	14	15	8	5,0	20
SVMG09M12	M12	8,5	15	15	8	6,0	20
SVMG10M16	M16	10	17	19	8	8,5	20
SVMG12M16	M16	12	17	19	8	10,0	20
SVMG12M20	M20	12	17	24	10	10,0	20
SVMG13M16	M20	13	17	19	8	10,0	20
SVMG13M20	M20	13	17	24	10	11,5	20
SVMG15M20	M20	15	22	24	10	14,0	20
SVMG20M25	M25	20	28	30	11	18,5	10
SVMG21M25	M25	21	28	30	11	18,5	10
SVMG25M32	M32	25	32	35	12	23,0	10
SVMG28M32	M32	28	36	35	12	23,0	10
SVMG37M40	M40	37	45	45	14	31,0	5
SVMG45M50	M50	45	55	55	11	42,0	5
SVMG52M63	M63	52	64	64	13	48,0	5



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
SVMGG07	1/4"	7	14	15	8	5,0	20
SVMGG09	1/4"	8,5	15	15	8	6,0	20
SVMGG09A	3/8"	8,5	15	19	8	7,0	20
SVMGG10	3/8"	10	17	19	8	8,5	20
SVMGG10A	1/2"	10	17	24	10	8,5	20
SVMGG12	3/8"	12	17	19	8	10,0	20
SVMGG12A	1/2"	12	17	24	10	10,0	20
SVMGG13	3/8"	13	17	19	8	10,0	20
SVMGG13A	1/2"	13	17	24	10	11,5	20
SVMGG15	1/2"	15	22	24	10	14,0	20
SVMGG15A	3/4"	15	22	30	12	14,0	20
SVMGG20	3/4"	20	28	30	10	18,5	10
SVMGG21	3/4"	21	28	30	10	18,5	10
SVMGG25	1"	25	32	35	12	23,0	10
SVMGG28	1"	28	36	35	12	23,0	10
SVMGG37	1 1/4"	37	45	45	14	31,0	5
SVMGG45	1 1/2"	45	55	55	11	42,0	5
SVMGG52	2"	52	64	64	13	48,0	5



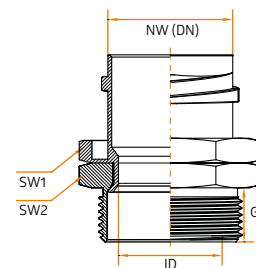
GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
SVMGP07PG07	PG7	7	14	15	8	5,0	20
SVMGP07PG09	PG9	7	14	17	8	5,0	20
SVMGP09PG07	PG7	8,5	15	15	8	6,0	20
SVMGP09PG09	PG9	8,5	15	17	8	7,0	20
SVMGP09PG11	PG11	8,5	15	20	8	7,0	20
SVMGP09PG13	PG13	8,5	15	22	8	7,0	20
SVMGP10PG09	PG9	10	17	17	8	8,5	20
SVMGP10PG11	PG11	10	17	20	8	8,5	20
SVMGP10PG13	PG13	10	17	22	8	8,5	20
SVMGP12PG11	PG11	12	17	20	8	10,0	20
SVMGP12PG13	PG13	12	17	22	8	10,0	20
SVMGP13PG11	PG11	13	17	20	8	10,0	20
SVMGP13PG13	PG13	13	17	22	10	11,5	20
SVMGP15PG13	PG13	15	22	22	10	14,0	20
SVMGP15PG16	PG16	15	22	24	10	14,0	20
SVMGP20PG21	PG21	20	28	30	10	18,5	10
SVMGP21PG21	PG21	21	28	30	10	18,5	10
SVMGP25PG29	PG29	25	32	38	12	23,0	10
SVMGP28PG29	PG29	28	36	38	12	23,0	10
SVMGP37PG36	PG36	37	45	50	14	31,0	5

Geeignet für Schläuche des Typs
Suitable for conduit types



Technische Zeichnung
Engineering drawing



Verschraubung Serie CM

TYP CMMF

Material: Messing vernickelt
Ausführung: Aussengewinde, starr
Schutzart: IP67
Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring.

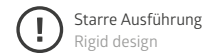
Fitting Series CM

TYPE CMMF

Material: Nickel-plated brass
Design: Rigid male thread
Protection rating: IP67
Temperature range: -40°C up to +105°C

Construction:

Fitting Body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-seal.



Starre Ausführung
Rigid design



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMMF09M12	M12	8,5	20	22	10	7,0	20
CMMF09M16	M16	8,5	20	22	10	7,0	20
CMMF09M20	M20	8,5	22	22	10	7,0	20
CMMF10M12	M12	10	22	24	10	8,5	20
CMMF10M16	M16	10	22	24	10	8,5	20
CMMF10M20	M20	10	22	24	10	8,5	20
CMMF12M16	M16	12	24	26	10	10,5	20
CMMF12M20	M20	12	24	26	10	10,5	20
CMMF13M16	M16	13	26	28	10	11,5	20
CMMF13M20	M20	13	26	28	10	11,5	20
CMMF15M20	M20	15	28	30	10	13,8	20
CMMF15M25	M25	15	28	30	11	13,8	20
CMMF18M20	M20	18	32	34	11	16,5	10
CMMF18M25	M25	18	32	34	11	16,5	10
CMMF20M25	M25	20	35	38	12	18,5	10
CMMF25M32	M32	25	40	42	12	23,0	10
CMMF27M32	M32	27	42	45	12	25,0	10
CMMF33M40	M40	33	50	53	12	31,0	5
CMMF35M40	M40	35	50	53	12	33,0	5
CMMF40M50	M50	40	58	61	13	37,5	5
CMMF50M63	M63	50	70	74	16	48,0	2



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMMFG009	1/4"	8,5	20	22	10	7,0	20
CMMFG009A	3/8"	8,5	20	22	10	7,0	20
CMMFG009B	1/2"	8,5	22	22	10	7,0	20
CMMFG010	1/4"	10	22	24	10	8,5	20
CMMFG010A	3/8"	10	22	24	10	8,5	20
CMMFG010B	1/2"	10	22	24	10	8,5	20
CMMFG012	3/8"	12	24	26	10	10,5	20
CMMFG012A	1/2"	12	24	26	10	10,5	20
CMMFG013	3/8"	13	26	28	10	11,5	20
CMMFG013A	1/2"	13	26	28	10	11,5	20
CMMFG015	1/2"	15	28	30	11	13,8	20
CMMFG015A	3/4"	15	28	30	11	13,8	20
CMMFG018	1/2"	18	32	34	11	16,5	10
CMMFG018A	3/4"	18	32	34	11	16,5	10
CMMFG020	3/4"	20	35	38	13	18,5	10
CMMFG025	1"	25	40	42	15	23,0	10
CMMFG027	1"	27	42	45	15	25,0	10
CMMFG033	1 1/4"	33	50	53	15	31,0	5
CMMFG035	1 1/4"	35	50	53	15	33,0	5
CMMFG040	1 1/2"	40	58	61	18	37,5	5
CMMFG050	2"	50	70	74	18	48,0	2
CMMFG065	2 1/2"	65	95	95	24	61,0	1
CMMFG075	3"	75	104	104	24	71,0	1
CMMFG100	4"	100	129	129	30	95,0	1



GEWINDEART PG

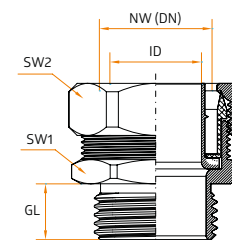
Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMMFP09PG09	PG09	8,5	20	22	10	7,0	20
CMMFP09PG11	PG11	8,5	20	22	10	7,0	20
CMMFP09PG13	PG13,5	8,5	22	22	10	7,0	20
CMMFP10PG07	PG07	10	22	24	10	8,5	20
CMMFP10PG09	PG09	10	22	24	10	8,5	20
CMMFP10PG11	PG11	10	22	24	10	8,5	20
CMMFP10PG13	PG13,5	10	22	24	10	8,5	20
CMMFP12PG11	PG11	12	24	26	10	10,5	20
CMMFP12PG13	PG13,5	12	24	26	10	10,5	20
CMMFP12PG16	PG16	12	24	26	10	10,5	20
CMMFP13PG11	PG11	13	26	28	10	11,5	20
CMMFP13PG13	PG13,5	13	26	28	10	11,5	20
CMMFP13PG16	PG16	13	26	28	10	11,5	20
CMMFP15PG13	PG13,5	15	28	30	10	13,8	20
CMMFP15PG16	PG16	15	28	30	10	13,8	20
CMMFP18PG16	PG16	18	32	34	11	16,5	10
CMMFP18PG21	PG21	18	32	34	11	16,5	10
CMMFP20PG21	PG21	20	35	38	12	18,5	10
CMMFP25PG29	PG29	25	40	42	12	23,0	10
CMMFP27PG29	PG29	27	42	45	12	25,0	10
CMMFP33PG36	PG36	33	50	53	12	31,0	5
CMMFP35PG36	PG36	35	50	53	12	33,0	5
CMMFP40PG36	PG36	40	58	61	17	37,5	5
CMMFP40PG42	PG42	40	58	61	13	37,5	5
CMMFP50PG48	PG48	50	70	74	18	48,0	2

Geeignet für Schläuche des Typs

Suitable for conduit types



Technische Zeichnung
Engineering drawing



Verschraubung Serie CM

TYP CMMG

Material: Messing vernickelt
Ausführung: Aussengewinde, drehbar
Schutzart: IP67
Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring.

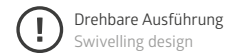
Fitting Series CM

TYPE CMMG

Material: Nickel-plated brass
Design: Swivelling male thread
Protection rating: IP67
Temperature range: -40°C up to +105°C

Construction:

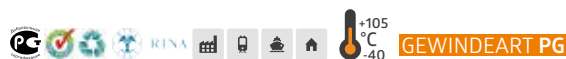
Fitting Body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-seal.



Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMMG09M12	M12	8,5	15	20	22	9	7,0	20
CMMG09M16	M16	8,5	19	20	22	9	7,0	20
CMMG09M20	M20	8,5	22	22	22	9	7,0	20
CMMG10M12	M12	10	15	22	24	9	7,0	20
CMMG10M16	M16	10	19	22	24	9	8,5	20
CMMG10M20	M20	10	24	22	24	9	8,5	20
CMMG12M16	M16	12	19	24	26	9	10,0	20
CMMG12M20	M20	12	24	24	26	9	10,0	20
CMMG13M16	M16	13	19	26	28	9	10,0	20
CMMG13M20	M20	13	24	26	28	9	10,0	20
CMMG15M20	M20	15	24	28	30	9	14,0	20
CMMG15M25	M25	15	30	28	30	10	13,8	20
CMMG18M20	M20	18	24	32	34	9	14,0	10
CMMG18M25	M25	18	30	32	34	10	16,5	10
CMMG20M25	M25	20	30	35	38	10	18,0	10
CMMG20M32	M32	20	38	35	38	13	18,0	10
CMMG25M32	M32	25	38	40	42	13	23,0	10
CMMG27M32	M32	27	38	42	45	13	24,0	10
CMMG33M40	M40	33	45	50	53	18	31,0	5
CMMG35M40	M40	35	45	50	53	18	33,0	5
CMMG40M50	M50	40	52	58	61	20	37,5	5
CMMG50M63	M63	50	64	70	74	24	48,0	2



Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMMGG009	1/4"	8,5	15	20	22	9	7,0	20
CMMGG009A	3/8"	8,5	19	20	22	9	7,0	20
CMMGG009B	1/2"	8,5	24	22	22	9	7,0	20
CMMGG010	1/4"	10	15	22	24	9	7,0	20
CMMGG010A	3/8"	10	19	22	24	9	8,5	20
CMMGG010B	1/2"	10	24	22	24	9	8,5	20
CMMGG012	3/8"	12	19	24	26	9	10,0	20
CMMGG012A	1/2"	12	24	24	26	9	10,0	20
CMMGG013	3/8"	13	19	26	28	9	10,0	20
CMMGG013A	1/2"	13	24	26	28	9	10,0	20
CMMGG015	1/2"	15	24	28	30	10	14,0	20
CMMGG015A	3/4"	15	30	28	30	12,5	14,0	20
CMMGG018	1/2"	18	24	32	34	10	14,0	10
CMMGG018A	3/4"	18	30	32	34	12,5	16,5	10
CMMGG020	3/4"	20	30	35	38	12,5	18,5	10
CMMGG020A	1"	20	38	35	38	12,5	18,5	10
CMMGG025	1"	25	38	40	42	12,5	23,0	10
CMMGG027	1"	27	38	42	45	12,5	24,0	10
CMMGG033	1 1/4"	33	45	50	53	18,5	31,0	5
CMMGG035	1 1/4"	35	45	50	53	18,5	32,5	5
CMMGG040	1 1/2"	40	52	58	61	20	37,5	5
CMMGG050	2"	50	65	70	74	24,5	48,0	2
CMMGG065	2 1/2"	65	82	95	95	24	60,0	1
CMMGG075	3"	75	95	104	104	27	70,0	1
CMMGG100	4"	100	128	129	129	28	95,0	1

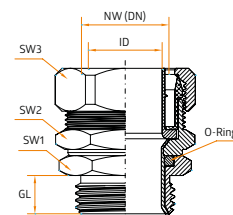


Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMMGP09PG07	PG07	8,5	15	20	22	9	7,0	20
CMMGP09PG09	PG09	8,5	17	20	22	7	7,0	20
CMMGP09PG11	PG11	8,5	20	20	22	7	7,0	20
CMMGP09PG13	PG13,5	8,5	22	22	22	7	7,0	20
CMMGP10PG07	PG07	10	15	22	24	9	7,0	20
CMMGP10PG09	PG09	10	17	22	24	7	7,0	20
CMMGP10PG11	PG11	10	20	22	24	7	8,5	20
CMMGP10PG13	PG13,5	10	22	22	24	7	8,5	20
CMMGP10PG16	PG16	10	24	22	24	7	8,5	20
CMMGP12PG11	PG11	12	20	24	26	7	10,0	20
CMMGP12PG13	PG13,5	12	22	24	26	7	10,0	20
CMMGP12PG16	PG16	12	24	24	26	7	10,0	20
CMMGP13PG11	PG11	13	20	26	28	7	10,0	20
CMMGP13PG13	PG13,5	13	22	26	28	7	10,0	20
CMMGP13PG16	PG16	13	24	26	28	7	10,0	20
CMMGP15PG13	PG13,5	15	24	28	30	10	14,0	20
CMMGP15PG16	PG16	15	24	28	30	10	14,0	20
CMMGP15PG21	PG21	15	30	28	30	10	14,0	20
CMMGP18PG13	PG13,5	18	24	32	34	10	14,0	10
CMMGP18PG16	PG16	18	24	32	34	10	14,0	10
CMMGP18PG21	PG21	18	30	32	34	10	16,5	10
CMMGP20PG21	PG21	20	30	35	38	10	18,5	10
CMMGP25PG29	PG29	25	38	40	42	12,5	23,0	10
CMMGP27PG29	PG29	27	38	42	45	12,5	24,0	10
CMMGP33PG36	PG36	33	45	50	53	18,5	31,0	5
CMMGP35PG36	PG36	35	45	50	53	18,5	32,5	5
CMMGP40PG36	PG36	40	52	58	61	20	37,5	5
CMMGP40PG42	PG42	40	58	58	61	20	37,5	5
CMMGP50PG48	PG48	50	65	70	74	24,5	48,0	2

Geeignet für Schläuche des Typs
Suitable for conduit types



Technische Zeichnung
Engineering drawing



Verschraubung Serie CM

TYP CMF

Material: Messing vernickelt
Ausführung: Innengewinde, starr
Schutzart: IP67
Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring.

Fitting Series CM

TYPE CMF

Material: Nickel-plated brass
Design: Rigid female thread
Protection rating: IP67
Temperature range: -40°C up to +105°C

Construction:

Fitting body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-seal.



! Innengewinde
 Female thread



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMF09M12	M12	8,5	20	22	8	7,0	20
CMF10M16	M16	10	22	24	9	8,5	20
CMF12M16	M16	12	24	26	9	10,5	20
CMF13M20	M20	13	26	28	10	11,5	20
CMF15M20	M20	15	28	30	10	13,8	20
CMF18M25	M25	18	32	34	10	16,5	10
CMF20M25	M25	20	35	38	12	18,5	10
CMF25M32	M32	25	40	42	12	23,0	10
CMF27M32	M32	27	42	45	12	25,0	10
CMF33M40	M40	33	50	53	12	31,0	5
CMF35M40	M40	35	50	53	12	33,0	5
CMF40M50	M50	40	58	61	13	37,5	5
CMF50M63	M63	50	70	74	20	48,0	2

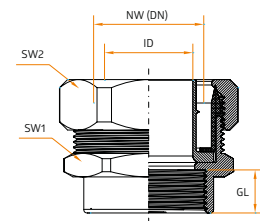
Geeignet für Schläuche des Typs
 Suitable for conduit types



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMF009	1/4"	8,5	20	22	9	7,0	20
CMF010	1/4"	10	22	24	9	8,5	20
CMF010A	3/8"	10	22	24	9	8,5	20
CMF010B	1/2"	10	22	24	10	8,5	20
CMF012	3/8"	12	24	26	9	10,5	20
CMF012A	1/2"	12	24	26	9	10,5	20
CMF013	3/8"	13	26	28	9,5	11,5	20
CMF013A	1/2"	13	26	28	9,5	11,5	20
CMF015	1/2"	15	28	30	9,5	13,8	20
CMF015A	3/4"	15	28	30	9,5	13,8	20
CMF018	1/2"	18	32	34	10	16,5	10
CMF018A	3/4"	18	32	34	10	16,5	10
CMF020	3/4"	20	35	38	12	18,5	10
CMF025	1"	25	40	42	12	23,0	10
CMF027	1"	27	42	45	14	25,0	10
CMF033	1 1/4"	33	50	53	16	31,0	5
CMF035	1 1/4"	35	50	53	16	33,0	5
CMF040	1 1/2"	40	58	61	17	37,5	5
CMF050	2"	50	70	74	21	48,0	2
CMF065	2 1/2"	65	95	95	22	61,0	1
CMF075	3"	75	104	104	22	71,0	1
CMF100	4"	100	129	129	28	95,0	1

Technische Zeichnung
 Engineering drawing



Verschraubung Serie CM

TYP CMPR

Material: Messing vernickelt
TPE-Dichteinsatz

Ausführung: Aussengewinde, starr
mit Zugentlastung

Schutzart: IP67

Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring, Dichteinsatz aus TPE zur zusätzlichen Zugentlastung.

Fitting Series CM

TYPE CMPR

Material: Nickel-plated brass
TPE Rubber clamping

Design: Rigid male thread
with strain relief

Protection rating: IP67

Temperature range: -40°C up to +105°C

Construction:

Fitting body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-seal, TPE rubber clamping for additional strain relief.



Auf Anfrage: mit Zoll-Gewinde lieferbar
On request: with gas-thread available



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	für Kabel mm for cable mm	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMPR1006M16	M16	10	4 - 6,5	19	22	24	8	8,5	1
CMPR1008M16	M16	10	5 - 8	19	22	24	8	8,5	1
CMPR1209M20	M20	12	5 - 8	22	24	26	8	10,5	1
CMPR1208M20	M20	12	6,5 - 9,5	22	24	26	8	10,5	1
CMPR1210M20	M20	12	7,0 - 10,5	22	24	26	8	10,5	1
CMPR1509M20	M20	15	6,5 - 9,5	22	28	30	8	13,8	1
CMPR1510M20	M20	15	7,0 - 10,5	22	28	30	8	13,8	1
CMPR1513M20	M20	15	9,0 - 13,0	22	28	30	8	13,8	1
CMPR1509M25	M25	15	6,5 - 9,5	28	28	30	9	13,8	1
CMPR1510M25	M25	15	7 - 10,5	28	28	30	9	13,8	1
CMPR1513M25	M25	15	9 - 13	28	28	30	9	13,8	1
CMPR2018M25	M25	20	14 - 18	30	35	38	9	18,5	1
CMPR2718M32	M32	27	14 - 18	35	42	45	10	25,0	1
CMPR2720M32	M32	27	17 - 20,5	35	42	45	10	25,0	1
CMPR2725M32	M32	27	20,5 - 25	40	42	45	10	25,0	1
CMPR3530M40	M40	35	26 - 30	45	50	53	10	33,0	1
CMPR4032M50	M50	40	27 - 32	52	58	61	12	37,5	1
CMPR4034M50	M50	40	29 - 34	52	58	61	12	37,5	1
CMPR4036M50	M50	40	32 - 36	52	58	61	12	37,5	1
CMPR5045M63	M63	50	39 - 44	64	70	74	10	48,0	1

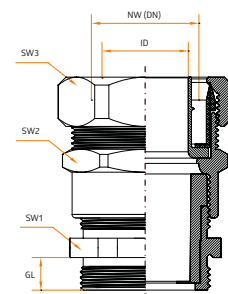
Geeignet für Schläuche des Typs
Suitable for conduit types



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	für Kabel mm for cable mm	SW1 mm	SW2 mm	SW3 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMPRP10PG96	PG9	10	4 - 6,5	17	22	24	6,0	8,5	1
CMPRP10PG98	PG9	10	5 - 8	17	22	24	6,0	8,5	1
CMPRP10PG116	PG11	10	4 - 6,5	20	22	24	6,0	8,5	1
CMPRP10PG118	PG11	10	5 - 8	20	22	24	6,0	8,5	1
CMPRP12PG118	PG11	12	5 - 8	20	24	26	6,0	10,5	1
CMPRP12PG119	PG11	12	6,5 - 9,5	20	24	26	6,0	10,5	1
CMPRP12PG1110	PG11	12	7 - 10,5	20	24	26	6,5	10,5	1
CMPRP12PG138	PG13,5	12	5 - 8	22	24	26	6,5	10,5	1
CMPRP12PG139	PG13,5	12	6,5 - 9,5	22	24	26	6,5	10,5	1
CMPR12PG1310	PG13,5	12	7 - 10,5	22	24	26	6,5	10,5	1
CMPRP12PG168	PG16	12	5 - 8	24	24	26	6,5	10,5	1
CMPRP12PG169	PG16	12	6,5 - 9,5	24	24	26	6,5	10,5	1
CMPRP12PG1610	PG16	12	7 - 10	24	24	26	6,5	10,5	1
CMPRP15PG1309	PG13,5	15	6,5 - 9,5	22	28	30	6,5	13,8	1
CMPRP15PG1310	PG13,5	15	7 - 10,5	22	28	30	6,5	13,8	1
CMPRP15PG1313	PG13,5	15	9 - 13	22	28	30	6,5	13,8	1
CMPRP15PG169	PG16	15	6,5 - 9,5	24	28	30	6,5	13,8	1
CMPRP15PG1610	PG16	15	7 - 10,5	24	28	30	6,5	13,8	1
CMPRP15PG1613	PG16	15	9 - 13	24	28	30	6,5	13,8	1
CMPRP20PG2113	PG21	20	9 - 13	30	35	38	7,5	18,5	1
CMPRP20PG2115	PG21	20	11,5 - 15,5	30	35	38	7,5	18,5	1
CMPRP20PG2118	PG21	20	14 - 18	30	35	38	7,5	18,5	1
CMPRP27PG2918	PG29	27	14 - 18	40	42	45	9,0	25,0	1
CMPRP27PG2920	PG29	27	17 - 20,5	40	42	45	9,0	25,0	1
CMPRP27PG2925	PG29	27	20 - 25	40	42	45	9,0	25,0	1
CMPRP35PG3632	PG36	35	27 - 32	50	50	53	9,0	33,0	1
CMPRP40PG3632	PG36	40	27 - 32	50	58	61	9,0	37,5	1
CMPRP40PG3634	PG36	40	29 - 34	50	58	61	9,0	37,5	1
CMPRP40PG3636	PG36	40	32 - 36	50	58	61	9,0	37,5	1
CMPRP50PG4845	PG48	50	39 - 44	64	70	74	10,0	48,0	1

Technische Zeichnung
Engineering drawing



Verschraubung Serie CM

TYP CMCC

Material: Messing vernickelt
Ausführung: Bogen 90°, Aussengewinde, starr
Schutzart: IP67
Temperaturbereich: -40°C bis +105°C

Konstruktion:

Verschraubungskörper und Überwurfmutter aus vernickeltem Messing, Innentülle aus verzinnem Stahl, Nylon-Dichtring.

Fitting Series CM

TYPE CMCC

Material: Nickel-plated brass
Design: 90° elbow, rigid male thread
Protection rating: IP67
Temperature range: -40°C up to +105°C

Construction:

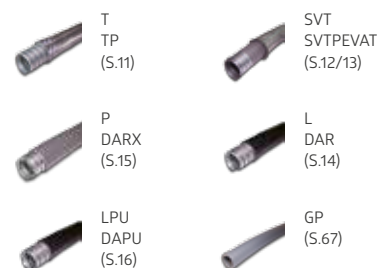
Fitting body and union nut made of nickel-plated brass, ferrule made of tinned steel, Nylon-seal.



Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	L1 mm	L2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMCC09M12	M12	8,5	22	22	12,0	44	11	7,0	20
CMCC09M16	M16	8,5	22	22	12,0	44	11	7,0	20
CMCC10M12	M12	10	22	24	12,0	44	11	8,5	20
CMCC10M16	M16	10	22	24	12,0	44	11	8,5	20
CMCC12M16	M16	12	26	26	14,0	45	12	10,5	10
CMCC12M20	M20	12	26	26	14,0	45	12	10,5	10
CMCC15M20	M20	15	28	30	15,0	50	12	13,8	10
CMCC20M25	M25	20	35	38	19,5	60	13	18,5	5
CMCC25M32	M32	25	42	42	23,0	70	16	23,5	2
CMCC27M32	M32	27	42	45	23,5	72	16	25,0	2

GEWINDEART METRISCH

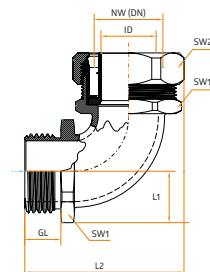
Geeignet für Schläuche des Typs
 Suitable for conduit types



Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	L1 mm	L2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMCCP09PG09	PG09	8,5	22	22	12,0	44	11	7,0	20
CMCCP10PG09	PG09	10	22	24	12,0	44	11	8,5	20
CMCCP10PG11	PG11	10	22	24	12,0	44	11	8,5	20
CMCCP12PG11	PG11	12	26	26	14,0	45	12	10,5	10
CMCCP12PG13	PG13,5	12	26	26	14,0	45	12	10,5	10
CMCCP15PG13	PG13,5	15	28	30	15,0	50	12	13,8	10
CMCCP15PG16	PG16	15	28	30	15,0	50	12	13,8	10
CMCCP20PG21	PG21	20	35	38	19,5	60	13	18,5	5

GEWINDEART PG

Technische Zeichnung
 Engineering drawing



Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	L1 mm	L2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
CMCCG09	1/4"	8,5	22	22	12,0	44	11	7,0	20
CMCCG09A	3/8"	8,5	22	22	12,0	44	11	7,0	20
CMCCG010	1/4"	10	22	24	12,0	44	11	8,5	20
CMCCG010A	3/8"	10	22	24	12,0	44	11	8,5	20
CMCCG012	3/8"	12	26	26	14,0	45	12	10,5	10
CMCCG012A	1/2"	12	26	26	14,0	45	12	10,5	10
CMCCG015	1/2"	15	28	30	15,0	50	12	13,8	10
CMCCG020	3/4"	20	35	38	19,5	60	13	18,5	5
CMCCG025	1"	25	42	42	23,5	70	16	23,0	2
CMCCG027	1"	27	42	45	23,5	72	16	25,0	2

GEWINDEART ZOLL

Metallschlauch-Zubehör Metal Conduit Accessories



ENDTÜLLE TYP VCM

Material: Zinkdruckguss

END SLEEVE TYPE VCM

Material: Die-cast zinc

Art. Nr. Art. No.	Schlauch NW Conduit DN	VPE Stk. Unit pcs.
VCM09	8,5	1
VCM10	10	1
VCM12	12	1
VCM13	13	1
VCM15	15	1
VCM18	18	1
VCM20	20	1
VCM25	25	1
VCM27	27	1
VCM30	30	1
VCM33	33	1
VCM35	35	1
VCM40	40	1
VCM50	50	1
VCM65	65	1
VCM75	75	1
VCM100	100	1



ENDTÜLLE TYP EESO

Material: Stahl verzinkt

END SLEEVE TYPE EESO

Material: Tin-plated steel

Art. Nr. Art. No.	Schlauch NW Conduit DN	VPE Stk. Unit pcs.
EESO10	10	50
EESO12	12	50
EESO15	15	50
EESO21	21	50
EESO27	27	50
EESO35	35	25
EESO40	40	10
EESO50	50	5



EMV-DRUCKRING TYP BCM

Material: Messing vernickelt

EMC-SEALING RING TYPE BCM

Material: Nickel-plated brass

Art. Nr. Art. No.	Schlauch NW Conduit DN	VPE Stk. Unit pcs.
BCM10M	10	20
BCM12M	12	20
BCM15M	15	20
BCM20M	21	20
BCM27M	27	20
BCM35M	35	20
BCM40M	40	5
BCM50M	50	5



ÜBERWURFMUTTER MIT ERDUNGSSCHRAUBE TYP CDVT

Material: Messing vernickelt

NUTS WITH EARTHING SCREW TYPE CDVT

Material: Nickel-plated brass

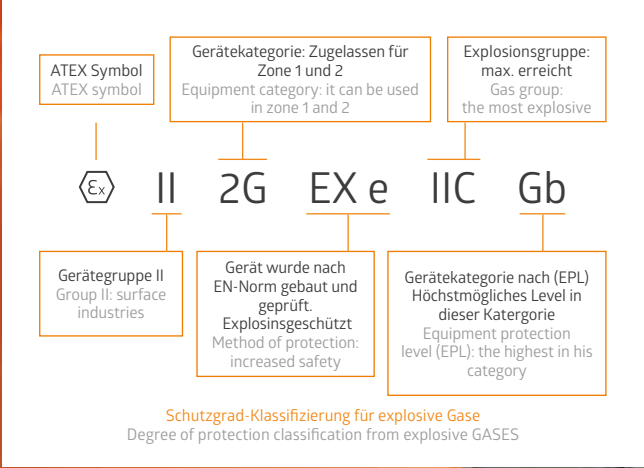
Art. Nr. Art. No.	Schlauch NW Conduit DN	SW mm across flats	VPE Stk. Unit pcs.
CDVT10	10	24	20
CDVT12	12	26	20
CDVT15	15	30	20
CDVT20	20	38	10
CDVT25	25	42	10
CDVT27	27	45	10
CDVT33	33	53	5
CDVT35	35	53	5
CDVT40	40	61	5
CDVT50	50	74	5
CDVT65	65	95	1
CDVT75	75	104	1
CDVT100	100	129	1

Kabelverschraubungen Cable glands

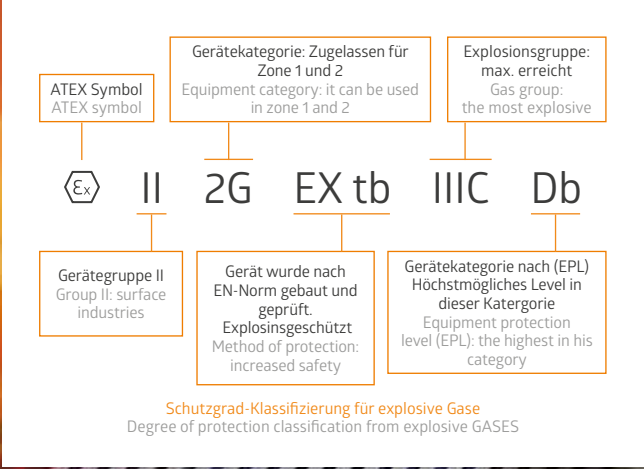
TÜV IT 13 ATEX 033X
TÜV IT 13 ATEX 033X

Schlauchverschraubungen Serie CM, AR, FI
Fittings: CM, AR, FI range

EC-Typ Überprüfungszertifikat ausgestellt durch den TÜV
EC-type examination certificate issued from TÜV



Schutzgrad-Klassifizierung für explosive Gase
Degree of protection classification from explosive GASES



Schutzgrad-Klassifizierung für explosive Gase
Degree of protection classification from explosive GASES



Größen und Abmessungen gleichen den Standard-Verschraubungen.
Für die EX-Ausführung einfach ein EX vor die Artikelnummer setzen:
Beispiel: EXCMMF10M16

Please take sizes and dimensions of the individual fittings on the pages of our standard products. If choosing the EX-version please put "EX" in front of the article number. For example: EXCMMF10M16

Wellrohre für elektrische Kabel & Leitungen

	Typ	Grundschlauch	Außenmantel	Flammschutz	Temperatur	Besondere Zulassungen	Seite
	TM	Polyamid 6	✗	UL94 HB	-40°C bis +120°C kurzzeitig +150°C		30
	TP	Polyamid 6	✗	UL94 V0	-40°C bis +120°C kurzzeitig +150°C		30
	HCP	Polyamid 6 schwere Ausführung	✗	UL94 V0	-40°C bis +105°C kurzzeitig +150°C	  	31
	UCVC	Polyamid 6 schwere Ausführung	✗	UL94 V0	-40°C bis +105°C kurzzeitig +150°C	  	31
	ECOT	Polyamid 6	Stahlgeflecht	UL94 HB	-40°C bis +105°C kurzzeitig +150°C	      	32
	FDA	Polyamid 6	Elastomer	UL94 HB	0°C bis +100°C kurzzeitig +150°C	 	32
	RSP	Polyamid 12	✗	UL94 V2	-50°C bis +95°C kurzzeitig +150°C	Roboter-Anwendung 	33
	UCF	Polyamid 12 schwere Ausführung	✗	UL94 V0	-50°C bis +95°C kurzzeitig +150°C	  	33
	TG	Polypropylen	✗	UL94 HB	-40°C bis +105°C kurzzeitig +140°C		34
	TG-MOD	Polypropylen mod.	✗	UL94 V2	-40°C bis +135°C kurzzeitig +140°C		34
	PE	Polyethylen	✗	UL94 HB	-40°C bis +70°C kurzzeitig +90°C		35
	EVA	EVA	✗	UL94 HB	-40°C bis +55°C kurzzeitig +65°C		35
	PVF	Polyvinyliden- fluorid	✗	UL94 V0	-60°C bis +150°C kurzzeitig +160°C		36
	PFA	PFA	✗	UL94 V0	-200°C bis +260°C kurzzeitig +285°C		36
	TPE	Thermo- plastisches Elastomer	✗	UL94 HB	-30°C bis +150°C kurzzeitig +180°C		37
	ESD	Polymid12 ESD	✗	UL94 HB	-40°C bis +100°C kurzzeitig +150°C		37
	PADC	Polyamid 6	✗	UL94 V2	-40°C bis +120°C kurzzeitig +150°C		38 – 39
	PPDC	Polypropylen Polypropylen mod.	✗	UL94 V2	-40°C bis +135°C kurzzeitig +140°C		38 – 39

Wellrohr -Verschraubungen für elektrische Kabel & Leitungen

	Serie	Material	Schutzgrad	Gewindearten	Besondere Zulassungen	Seite
	JAW-FIT	Polyamid	IP66 - IP68-IP69K	Metrisch / PG / Zoll / NPT	     	40 – 54
	SSV	Polyamid	IP65 - IP68	Metrisch / PG		55

Corrugated Tubes for Electric Cables and Conductors

	Type	Conduit	Outer cover	Flame class	Temperature	Special approvals	Page
	TM	Polyamide 6	✗	UL94 HB	-40°C up to +120°C short-term +150°C		30
	TP	Polyamide 6	✗	UL94 V0	-40°C up to +120°C short-term +150°C		30
	HCP	Polyamid 6 heavy duty	✗	UL94 V0	-40°C up to +105°C short-term +150°C	  	31
	UCVC	Polyamide 6 heavy duty	✗	UL94 V0	-40°C up to +105°C short-term +150°C	   	31
	ECOT	Polyamide 6	Steel braid	UL94 HB	-40°C up to +105°C short-term +150°C	       	32
	FDA	Polyamide 6	Elastomer	UL94 HB	0°C up to +100°C short-term +150°C	 	32
	RSP	Polyamide 12	✗	UL94 V2	-50°C up to +95°C short-term +150°C	Robot-Application 	33
	UCF	Polyamide 12 heavy duty	✗	UL94 V0	-50°C up to +95°C short-term +150°C	   	33
	TG	Polypropylene	✗	UL94 HB	-40°C up to +105°C short-term +140°C		34
	TG-MOD	Polypropylene mod.	✗	UL94 V2	-40°C up to +135°C short-term +140°C		34
	PE	Polyethylene	✗	UL94 HB	-40°C up to +70°C short-term +90°C		35
	EVA	EVA	✗	UL94 HB	-40°C up to +55°C short-term +65°C		35
	PVF	Polyvinyliden-fluoride	✗	UL94 V0	-60°C up to +150°C short-term +160°C		36
	PFA	PFA	✗	UL94 V0	-200°C up to +260°C short-term +285°C		36
	TPE	Thermoplastic Elastomer	✗	UL94 HB	-30°C up to +150°C short-term +180°C		37
	ESD	Polyamide 12 ESD	✗	UL94 HB	-40°C up to +110°C short-term +150°C		37
	PADC	Polyamide 6	✗	UL94 V2	-40°C up to +120°C short-term +150°C		38 – 39
	PPDC	Polypropylene Polypropylene mod.	✗	UL94 V2	-40°C up to +135°C short-term +140°C		38 – 39

Tube-Fittings for Electric Cables and Conductors

	Series	Material	Protection rating	Thread	Special approvals	Page
	JAW-FIT	Polyamide	IP66 - IP68-IP69K	Metric / PG / GAS / NPT	      	40 – 54
	SSV	Polyamide	IP65 - IP68	Metric / PG		55

Wellrohr PA6

TYP TM

Material: Polyamid 6
Schutzart: IP68
Brennbarkeit: UL94 HB
Temperaturbereich: -40°C bis +120°C
 kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PA6

TYPE TM

Material: Polyamide 6
Protection rating: IP68
Flammability: UL94 HB
Temperature range: -40°C up to +120°C
 short-term +150°C

Applications:

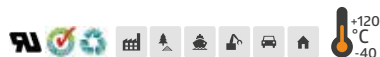
Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Auf Anfrage:
geschlitzt lieferbar

On request:
slotted available



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
TM004B	TM004G	4,5	4,3	7,3	8	100m
TM007B	TM007G	7	6,7	10,0	13	50m
TM008B	TM008G	8,5	8,4	11,7	15	50m
TM010B	TM010G	10	9,9	13,0	20	50m
TM012B	TM012G	12	12,2	15,7	30	50m
TM013B	TM013G	13	12,7	15,8	35	50m
TM014B	TM014G	14	14,2	18,5	40	50m
TM016B	TM016G	16	14,9	18,9	40	50m
TM017B	TM017G	17	16,6	21,2	45	50m
TM019B	TM019G	19	19,3	24,3	45	50m
TM022B	TM022G	22	21,2	25,5	50	50m
TM023B	TM023G	23	23,2	28,3	55	50m
TM026B	TM026G	26	25,7	32,2	60	50m
TM029B	TM029G	29	29,0	34,5	65	25m
TM036B	TM036G	36	36,0	42,4	90	25m
TM048B	TM048G	50	48,1	53,8	100	25m
TM056B	TM056G	56	56,3	67,2	130	30m
TM065B	TM065G	65	62,7	73,5	145	25m
TM070B	TM070G	70	67,5	80,0	160	10m
TM095B	TM095G	95	91,5	106,0	210	10m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA6

TYP TP

Material: Polyamid 6
Schutzart: IP68
Brennbarkeit: UL94 VO
Temperaturbereich: -40°C bis +120°C
 kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PA6

TYPE TP

Material: Polyamide 6
Protection rating: IP68
Flammability: UL94 VO
Temperature range: -40°C up to +120°C
 short-term +150°C

Applications:

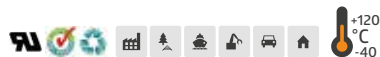
Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Auf Anfrage:
geschlitzt lieferbar

On request:
slotted available



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
TP007B	TP007G	7	6,7	10,0	13	50m
TP008B	TP008G	8,5	8,4	11,7	15	50m
TP010B	TP010G	10	9,9	13,0	20	50m
TP012B	TP012G	12	12,2	15,7	30	50m
TP013B	TP013G	13	12,7	15,8	35	50m
TP014B	TP014G	14	14,2	18,5	40	50m
TP016B	TP016G	16	14,9	18,9	40	50m
TP017B	TP017G	17	16,6	21,2	45	50m
TP022B	TP022G	22	21,2	25,5	50	50m
TP023B	TP023G	23	23,2	28,3	55	50m
TP026B	TP026G	26	25,7	32,2	60	50m
TP029B	TP029G	29	29,0	34,5	65	25m
TP036B	TP036G	36	36,0	42,4	90	25m
TP048B	TP048G	50	48,1	53,8	100	25m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA6

TYP HCP

Material: Polyamid 6
schwere Ausführung

Schutzart: IP68

Brennbarkeit: UL94 VO

Temperaturbereich: -40°C bis +105°C
kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PA6

TYPE HCP

Material: Polyamide 6
heavy version

Protection rating: IP68

Flammability: UL94 VO

Temperature range: -40°C up to +105°C
short-term +150°C

Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	Profil Profile	VPE Unit
HCPF07B	HCPF07G	7	5,8	10,0	20	F	50m
HCPF10B	HCPF10G	10	9,0	13,0	25	F	50m
HCPF12B	HCPF12G	12	11,6	15,8	30	F	50m
HCPF17B	HCPF17G	17	16,5	21,2	40	F	50m
HCPC17B	HCPC17G	17	14,5	21,2	45	C	50m
HCPC23B	HCPC23G	23	21,1	28,5	50	C	50m
HCPC29B	HCPC29G	29	26,6	42,5	60	C	50m
HCPC36B	HCPC36G	36	35,0	42,5	70	C	30m
HCPC48B	HCPC48G	50	46,5	54,5	80	C	30m
HCPC56B	HCPC56G	56	55,5	67,2	130	C	30m
HCPC70B	HCPC70G	70	67,0	80,0	170	C	10m
HCPC95B	HCPC95G	95	90,5	106,0	250	C	10m

Passende Verschraubungen Suitable fittings

JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)

SSV Serie (S.55)
SSV series (S.55)

HF Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA6

TYP UCVC

Material: Polyamid 6
schwere Ausführung

Schutzart: IP68

Brennbarkeit: UL94 VO

Temperaturbereich: -40°C bis +105°C
kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, sehr hohe Zug- und Scheiteldruckfestigkeit sowie Ermüdungsfestigkeit.

Corrugated Conduit PA6

TYPE UCVC

Material: Polyamide 6
heavy version

Protection rating: IP68

Flammability: UL94 VO

Temperature range: -40°C up to +105°C
short-term +150°C

Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, pressure and impact resistant, very flexible, high tensile and compressive strength also fatigue strength.



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	Profil Profile	VPE Unit
UCVC17B	UCVC17G	17	15,3	21,2	40	C	50m
UCVC23B	UCVC23G	23	21,9	28,5	45	C	50m
UCVC29B	UCVC29G	29	27,6	34,5	55	C	50m
UCVC36B	UCVC36G	36	36,0	42,5	60	C	30m
UCVC48B	UCVC48G	50	47,0	54,5	70	C	30m

Passende Verschraubungen Suitable fittings

JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)

SSV Serie (S.55)
SSV series (S.55)

HF Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA6

TYP ECOT / EMV

Material: Polyamid 6
verz. Stahlgeflecht
Edelstahlgeflecht (BX)

Schutzart: IP68

Brennbarkeit: UL94 HB

Temperaturbereich: -40°C bis +105°C
kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau,
Schiffsbau, Automation, Elektroanlagen.
EMV-Anwendungen-

Mechanischer Schutz für Kabel und
Leitungen, druck- und schlagfest, flexibel,
hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PA6

TYPE ECOT / EMV

Material: Polyamid 6
galv. steel braid
Stainless steel braid (BX)

Protection rating: IP68

Flammability: UL94 HB

Temperature range: -40°C up to +105°C
short-term +150°C

Applications:

Machine and plant constructions, automotive,
shipbuilding, automation, electrical installations.
EMC-Applications.

Mechanical protection for cables and
conductors, pressure and impact resistant,
flexible, high tensile and compressive strength.



einsetzbar
applicable



Art. Nr. verzinkt Art. No. galvanized	Art. Nr. VA Art. No. stainless	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
ECOT07B	ECOT07BX	7	6,2	11,0	15	50m
ECOT10B	ECOT10BX	10	9,6	14,0	20	50m
ECOT12B	ECOT12BX	12	12,0	17,0	30	50m
ECOT17B	ECOT17BX	17	16,2	22,5	40	50m
ECOT23B	ECOT23BX	23	22,6	30,0	45	50m
ECOT29B	ECOT29BX	29	29,0	36,0	55	50m
ECOT36B	ECOT36BX	36	36,5	44,0	60	30m
ECOT48B	ECOT48BX	50	48,5	56,0	70	30m
ECOT70B	ECOT70BX	70	67,5	82,0	160	10m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA6

TYP FDA

Material: Polyamid 6
Elastomer Überzug

Schutzart: IP68

Brennbarkeit: UL94 HB

Temperaturbereich: 0°C bis +100°C
kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, die im Bereich
Lebensmittelproduktion eingesetzt werden.

Mechanischer Schutz für Kabel und
Leitungen, druck- und schlagfest, flexibel,
hohe Zug- und Scheiteldruckfestigkeit, außen
glatt.

Corrugated Conduit PA6

TYPE FDA

Material: Polyamid 6
Elastomer cover

Protection rating: IP68

Flammability: UL94 HB

Temperature range: 0°C up to +100°C
short-term +150°C

Applications:

Machine and plant constructions that are used
the field of food production.

Mechanical protection for cables and
conductors, pressure and impact resistant,
flexible, high tensile and compressive strength,
smooth outside.



Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
FDAF12	12	11,8	18,8	30	50m
FDAF17	17	16,0	24,2	40	50m
FDAF23	23	22,4	31,5	45	50m
FDAF29	29	28,8	37,5	55	50m
FDAF36	36	36,5	44,0	60	30m
FDAF48	50	48,5	57,5	70	30m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA12

TYP RSP

Material: Polyamid 12
Schutzart: IP68
Brennbarkeit: UL94 V2
Temperaturbereich: -50°C bis +95°C
 kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen, Robotertechnik.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit, hohe Biegewechselfestigkeit.

Corrugated Conduit PA12

TYPE RSP

Material: Polyamide 12
Protection rating: IP68
Flammability: UL94 V2
Temperature range: -50°C up to +95°C
 short-term +150°C

Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations, robotics.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength, high bending fatigue strength.



Auf Anfrage:
geschlitzte lieferbar

On request:
slotted available

Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	Profil Profile	VPE Unit
RSPF07B	RSPF07G	7	6,2	10,0	15	F	50m
RSPF10B	RSPF10G	10	9,6	13,0	20	F	50m
RSPF12B	RSPF12G	12	11,9	15,8	25	F	50m
RSPF17B	RSPF17G	17	16,4	21,2	30	F	50m
RSPF23B	RSPF23G	23	22,6	28,5	35	F	50m
RSPF29B	RSPF29G	29	29,0	34,5	45	F	50m
RSPF36B	RSPF36G	36	35,8	42,5	60	F	30m
RSPF48B	RSPF48G	50	47,5	54,5	70	F	30m
RSPC17B	RSPC17G	17	15,2	21,2	30	C	50m
RSPC23B	RSPC23G	23	21,7	28,5	40	C	50m
RSPC29B	RSPC29G	29	27,4	34,5	50	C	50m
RSPC36B	RSPC36G	36	35,8	42,5	60	C	30m
RSPC48B	RSPC48G	50	46,7	54,5	70	C	30m
RSPC56B	RSPC56G	56	56,0	67,2	110	C	30m
RSPC70B	RSPC70G	70	67,2	80,0	150	C	30m / 10m
RSPC95B	RSPC95G	95	91,3	106,0	170	C	30m / 10m

Passende Verschraubungen Suitable fittings

 JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)

 SSV Serie (S.55)
SSV series (S.55)

HF Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PA12

TYP UCF

Material: Polyamid 12
schwere Ausführung
Schutzart: IP68
Brennbarkeit: UL94 V0
Temperaturbereich: -50°C bis +95°C
 kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PA12

TYPE UCF

Material: Polyamide 12
heavy version
Protection rating: IP68
Flammability: UL94 V0
Temperature range: -50°C up to +95°C
 short-term +150°C

Application:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	Profil Profile	VPE Unit
UCFC17B	UCFC17G	17	15,6	21,2	35	C	50m
UCFC23B	UCFC23G	23	22,0	28,5	40	C	50m
UCFC29B	UCFC29G	29	27,7	34,5	50	C	50m
UCFC36B	UCFC36G	36	35,8	42,5	60	C	30m
UCFC48B	UCFC48G	50	46,8	54,5	70	C	30m

Passende Verschraubungen Suitable fittings

 JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)

 SSV Serie (S.55)
SSV series (S.55)

HF Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PP

TYP TG

Material: Polypropylen
Schutzart: IP68
Brennbarkeit: UL94 HB
Temperaturbereich: -40°C bis +105°C
 kurzzeitig +140°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PP

TYPE TG

Material: Polypropylene
Protection rating: IP68
Flammability: UL94 HB
Temperature range: -40°C up to +105°C
 short-term +140°C

Applications:

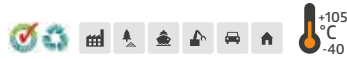
Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Auf Anfrage:
geschlitzte lieferbar

On request:
slotted available



Art. Nr. Schwarz Art. No. black	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
TG007B	7	6,9	9,9	13	50m
TG008B	8,5	8,4	11,4	15	50m
TG010B	10	10,1	12,9	20	50m
TG012B	12	12,5	15,6	30	50m
TG013B	13	12,7	15,8	35	50m
TG014B	14	14,2	18,5	40	50m
TG016B	16	14,9	18,9	40	50m
TG017B	17	16,8	21,0	45	50m
TG022B	22	21,2	25,5	50	50m
TG023B	23	23,7	28,4	55	50m
TG026B	26	25,7	32,2	60	25m
TG029B	29	29,3	34,1	65	25m
TG036B	36	36,5	41,6	90	25m
TG048B	50	47,8	53,6	100	25m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PP

TYP TG-MOD

Material: Polypropylen
Schutzart: IP68
Brennbarkeit: UL94 V2
Temperaturbereich: -40°C bis +135°C
 kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen. Sehr gute UV Beständigkeit.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PP

TYPE TG-MOD

Material: Polypropylene
Protection rating: IP68
Flammability: UL94 V2
Temperature range: -40°C up to +135°C
 short-term +150°C

Applications:

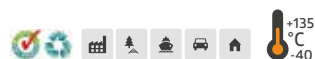
Machine and plant constructions, automotive, shipbuilding, automation, electrical installations. UV-resistance.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Auf Anfrage:
geschlitzte lieferbar

On request:
slotted available



Art. Nr. Schwarz Art. No. black	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
TGM007B	7,5	6,9	9,9	13	50m
TGM008B	8,5	8,5	11,4	15	50m
TGM010B	10	10,1	12,6	20	50m
TGM012B	12	12,0	15,3	30	50m
TGM013B	13	12,7	15,8	35	50m
TGM014B	14	14,5	18,4	40	50m
TGM016B	16	15,2	18,7	40	50m
TGM017B	17	16,8	21,0	45	50m
TGM022B	22	21,8	25,5	50	50m
TGM023B	23	23,7	28,0	55	50m
TGM026B	26	25,7	32,2	60	25m
TGM029B	29	29,3	33,9	65	25m
TGM036B	36	33,8	41,6	90	25m
TGM048B	50	45,7	53,2	100	25m
TGM056B	56	56,3	67,2	130	25m
TGM065B	65	62,7	73,5	145	25m
TGM070B	70	66,5	79,2	160	25m
TGM095B	95	91,0	106,0	210	10m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PE

TYP PE

Material: Polyethylen
Schutzart: IP68
Brennbarkeit: UL94 HB
Temperaturbereich: -40°C bis +70°C
 kurzzeitig +90°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen, Schaltschrankbau.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel.

Corrugated Conduit PE

TYPE PE

Material: Polyethylene
Protection rating: IP68
Flammability: UL94 HB
Temperature range: -40°C up to +70°C
 short-term +90°C

Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations, switch cabinets.

Mechanical protection for cables and conductors, pressure and impact resistant.



Auf Anfrage:
geschlitzt lieferbar

On request:
slotted available

Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	VPE Unit
PE007B	PE007G	7,5	6,5	9,9	50m
PE008B	PE008G	8,5	8,4	11,8	50m
PE010B	PE010G	10	9,8	12,7	50m
PE012B	PE012G	12	11,6	15,6	50m
PE014B	PE014G	14	14,1	18,3	50m
PE016B	PE016G	16	14,7	18,6	50m
PE017B	PE017G	17	16,3	20,8	50m
PE022B	PE022G	22	21,2	25,4	50m
PE023B	PE023G	23	22,9	27,9	50m
PE029B	PE029G	29	28,9	34,0	25m
PE036B	PE036G	36	33,5	41,5	25m
PE048B	PE048G	50	45,3	53,3	25m
PE065B	PE065G	65	62,2	72,9	10m
PE070B	PE070G	70	66,5	79,2	10m
PE095B	PE095G	95	91,0	106,0	10m

Passende Verschraubungen

Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr EVA

TYP EVA

Material: Ethylenvinylacetat
Schutzart: IP68
Brennbarkeit: UL94 HB
Temperaturbereich: -40°C bis +55°C
 kurzzeitig +65°C

Einsatzbereiche:

Automation, Elektroanlagen.
Besonders geeignet für den Schaltschrankbau.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel.

Corrugated Conduit EVA

TYPE EVA

Material: Ethylene vinyl acetate
Protection rating: IP68
Flammability: UL94 HB
Temperature range: -40°C up to +55°C
 short-term +65°C

Applications:

Automation, electrical installations, switch cabinets.

Mechanical protection for cables and conductors, pressure and impact resistant.



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	NW DN	ID mm	AD mm OD mm	VPE Unit
EVA007B	EVA007G	7,5	6,6	9,9	50m
EVA010B	EVA010G	10	9,7	12,8	50m
EVA012B	EVA012G	12	11,5	15,6	50m
EVA017B	EVA017G	17	16,1	20,8	50m
EVA023B	EVA023G	23	22,5	28,0	50m
EVA029B	EVA029G	29	28,5	33,8	25m
EVA036B	EVA036G	36	33,3	41,6	25m
EVA048B	EVA048G	50	47,0	53,5	25m

Passende Verschraubungen

Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PVDF

TYP PVF

Material:	Polyvinylidenfluorid
Schutzart:	IP68
Brennbarkeit:	UL94 V0
Temperaturbereich:	-60°C bis +150°C kurzzeitig +160°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen, Chemie und Lebensmittelindustrie.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PVDF

TYPE PVF

Material:	Polyvinylidene fluoride
Protection rating:	IP68
Flammability:	UL94 V0
Temperature range:	-60°C up to +150°C short-term +160°C

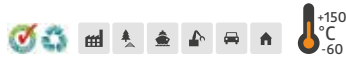
Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations, chemical and food industry.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Art. Nr. Natur Art. No. natural	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	VPE Unit
PVF10F	10	9,6	13,0	20	50m
PVF12F	12	12,0	15,8	30	50m
PVF17F	17	16,2	21,2	40	50m
PVF23F	23	22,6	28,5	45	50m
PVF29F	29	29,0	34,5	55	50m



Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)

HF Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr PFA

TYP PFA

Material:	PFA
Schutzart:	IP68
Brennbarkeit:	UL94 V0
Temperaturbereich:	-200°C bis +260°C kurzzeitig +285°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen, Labor- und Medizintechnik, Raumfahrt.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit PFA

TYPE PFA

Material:	PFA
Protection rating:	IP68
Flammability:	UL94 HVO
Temperature range:	-200°C up to +260°C short-term +285°C

Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations, medical engineering, aerospace.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Art. Nr. Schwarz Art. No. black	Art. Nr. Natur Art. No. natural	NW DN	ID mm	AD mm OD mm	VPE Unit
PFA003B	PFA003	3	3,0	5,1	100m
PFA004B	PFA004	4,5	4,3	6,8	100m
PFA007B	PFA007	7,5	7,0	9,8	100m
PFA008B	PFA008	8,5	7,6	10,0	50m
PFA010B	PFA010	10	9,8	13,0	50m
PFA013B	PFA013	13	12,4	16,0	50m
PFA016B	PFA016	16	15,6	19,8	50m
PFA017B	PFA017	17	16,6	21,1	50m
PFA021B	PFA021	21	20,1	25,0	50m
PFA023B	PFA023	23	23,8	28,8	25m
PFA029B	PFA029	29	28,8	32,3	25m



Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)

HF Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr TPE

TYP TPE

Material:	Thermoplastisches Elastomer
Schutzart:	IP68
Brennbarkeit:	UL94 HB
Temperaturbereich:	-30°C bis +150°C kurzzeitig +180°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen, Dynamische Anwendungen.

Mechanischer Schutz für Kabel und Leitungen, druck- und schlagfest, flexibel, hohe Zug- und Scheiteldruckfestigkeit.

Corrugated Conduit TPE

TYPE TPE

Material:	Thermoplastic Elastomer
Protection rating:	IP68
Flammability:	UL94 HB
Temperature range:	-30°C up to +150°C short-term +180°C

Applications:

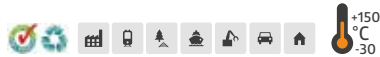
Machine and plant constructions, automotive, shipbuilding, automation, electrical installations, for highly dynamic applications.

Mechanical protection for cables and conductors, pressure and impact resistant, flexible, high tensile and compressive strength.



Auf Anfrage:
geschlitzt lieferbar

On request:
slotted available



Art. Nr. Schwarz Art. No. black	NW DN	ID mm	AD mm OD mm	VPE Unit
TPE007B	7,5	6,5	10,0	50m
TPE008B	8,5	8,2	11,5	50m
TPE010B	10	9,9	12,8	50m
TPE012B	12	11,5	15,6	50m
TPE014B	14	14,1	18,5	50m
TPE016B	16	14,8	18,9	50m
TPE017B	17	16,4	21,0	50m
TPE022B	22	21,2	25,7	50m
TPE023B	23	23,4	28,1	50m
TPE029B	29	28,9	33,8	25m
TPE036B	36	34,1	41,6	25m
TPE048B	50	45,8	53,1	25m
TPE070B	70	66,5	79,2	25m
TPE095B	95	91,0	106,0	10m

Passende Verschraubungen

Suitable fittings



JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474

Wellrohr ESD

TYP ESD PA12

Material:	Polyamid 12 antistatisch
Schutzart:	IP68
Brennbarkeit:	UL94 HB
Temperaturbereich:	-40°C bis +110°C kurzzeitig +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Schiffsbau, Automation, Elektroanlagen.

Für den Einsatz in antistatischen, hochflexiblen Bereichen geeignet.

Corrugated Conduit ESD

TYPE ESD PA12

Material:	Polyamide 12 antistatic
Protection rating:	IP68
Flammability:	UL94 HB
Temperature range:	-40°C up to +110°C short-term +150°C

Applications:

Machine and plant constructions, automotive, shipbuilding, automation, electrical installations.

Mechanical protection for cables and conductors, flexible.



einsetzbar
applicable



IEC 60093 Ohm - m kond. = 100
IEC 60093 Ohm kond. 10

Passende Verschraubungen

Suitable fittings



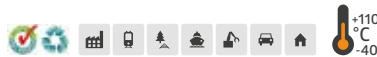
JAW-FIT Serie (S.40-54)
JAW-FIT series (S.40-54)



SSV Serie (S.55)
SSV series (S.55)



Halogenfrei DIN 53474
Halogen-free DIN EN 53474



Art. Nr. Schwarz Art. No. black	NW DN	ID mm	AD mm OD mm	Biegeradius mm Bending radius mm	Profil Profile	VPE Unit
ESDF07B	07	7,0	10,0	15	F	50m
ESDF08B	08	8,2	11,4	16	F	50m
ESDF10B	10	9,8	12,7	20	F	50m
ESDF12B	12	12,1	15,8	25	F	50m
ESDC16B	16	15,7	21,0	29	C	50m
ESDF17B	17	17,0	20,9	30	F	50m
ESDC21B	21	21,7	28,2	34	C	50m
ESDF23B	23	23,5	28,0	35	F	50m
ESDC29B	29	27,4	34,2	45	C	25m
ESDF29B	29	29,4	34,2	45	F	25m
ESDC36B	36	35,3	42,3	60	C	25m
ESDF37B	37	36,2	42,0	60	F	25m
ESDF48B	48	46,3	53,9	70	F	25m
ESDF50B	50	47,0	53,4	70	F	25m
ESDF70B	70	66,0	78,8	150	F	25m
ESDF95B	95	89,6	105,2	170	F	10

Wellrohr teilbar PA6

TYP PADC

Material: Polyamid 6
Schutzart: IP54
Brennbarkeit: UL94 V0
Temperaturbereich: -40°C bis +120°C
 kurzzeitig +150°C

Einsatzbereiche:

Speziell für nachträgliche Installationen.
 Maschinen- und Anlagenbau, Fahrzeugbau,
 Schiffsbau, Automation, Elektroanlagen,
 Dynamische Anwendungen.

Mechanischer Schutz für Kabel und
 Leitungen, druck- und schlagfest, flexibel,
 hohe Zug- und Scheiteldruckfestigkeit.

Splittable Conduit PA6

TYPE PADC

Material: Polyamid 6
Protection rating: IP54
Flammability: UL94 V0
Temperature range: -40°C up to +120°C
 short-term +150°C

Applications:

Ideal for retrofits. Machine and plant construc-
 tions, automotive, shipbuilding, automation,
 electrical installations, highly dynamic.

Mechanical protection for cables and
 conductors, pressure and impact resistant,
 flexible, high tensile and compressive strength.



Art. Nr. Schwarz Art. No. black	NW DN	ID mm	AD mm OD mm	VPE Unit
PADC06	6	6,3	10,0	50m
PADC10	10	8,9	13,6	50m
PADC11	11	11,0	16,1	50m
PADC14	14	12,9	18,7	50m
PADC16	16	16,0	21,5	50m
PADC20	20	19,8	25,9	50m
PADC23	23	23,7	31,3	50m
PADC29	29	27,3	35,5	25m
PADC37	37	31,7	41,9	25m
PADC45	45	43,1	54,2	25m
PADC70	70	66,0	79,8	10m

Passende Verschraubungen Suitable fittings



LCOV Serie (S.62)
 LCOV series (S.62)



Halogenfrei DIN 53474
 Halogen-free DIN EN 53474

Wellrohr teilbar

TYP PPDC / PPDC-UV

Material: Polypropylen mod.
Schutzart: IP54
Brennbarkeit: UL94 V0
Temperaturbereich: -40°C bis +135°C
 kurzzeitig +140°C

Einsatzbereiche:

Speziell für nachträgliche Installationen
 Maschinen- und Anlagenbau, Fahrzeugbau,
 Schiffsbau, Automation, Elektroanlagen.
 UV= Spezieller UV-Schutz

Mechanischer Schutz für Kabel und
 Leitungen, druck- und schlagfest, flexibel,
 hohe Zug- und Scheiteldruckfestigkeit.

Splittable Conduit PP

TYPE PPDC / PPDC-UV

Material: Polypropylene mod.
Protection rating: IP54
Flammability: UL94 V0
Temperature range: -40°C up to +135°C
 short-term +140°C

Applications:

Ideal for retrofits. Machine and plant construc-
 tions, automotive, shipbuilding, automation,
 electrical installations.
 UV= special UV-protection

Mechanical protection for cables and
 conductors, pressure and impact resistant,
 flexible, high tensile and compressive strength.



Art. Nr. PPDC Art. No. PPDC	Art. Nr. PPDC-UV Art. No. PPDC-UV	NW DN	ID mm	AD mm OD mm	VPE Unit
PPDC06	-	6	6,3	10,0	50m
PPDC10	PPDC10UV	10	8,7	13,6	50m
PPDC11	-	11	11,0	16,1	50m
PPDC14	PPDC14UV	14	12,5	18,5	50m
PPDC16	-	16	16,0	21,5	50m
PPDC20	PPDC20UV	20	19,5	25,5	50m
PPDC23	PPDC23UV	23	24,2	31,0	50m
PPDC29	-	29	27,3	35,5	25m
PPDC37	PPDC37UV	37	31,0	41,4	25m
PPDC45	PPDC45UV	45	42,7	54,0	25m
PPDC70	PPDC70UV	70	66,0	79,8	10m

Passende Verschraubungen Suitable fittings



LCOV Serie (S.62)
 LCOV series (S.62)



Halogenfrei DIN 53474
 Halogen-free DIN EN 53474

Wellrohr teilbar PA6

TYP PADC-L

Material: Polyamid 6
Schutzart: IP54
Brennbarkeit: UL94 V2
Temperaturbereich: -40°C bis +120°C
 kurzzeitig +150°C

Einsatzbereiche:

Speziell für nachträgliche Installationen.
 Maschinen- und Anlagenbau, Fahrzeugbau,
 Schiffsbau, Automation, Elektroanlagen,
 Dynamische Anwendungen.

Mechanischer Schutz für Kabel und
 Leitungen, druck- und schlagfest, flexibel,
 hohe Zug- und Scheiteldruckfestigkeit.

Splittable Conduit PA6

TYPE PADC-L

Material: Polyamid 6
Protection rating: IP54
Flammability: UL94 V2
Temperature range: -40°C up to +120°C
 short-term +150°C

Applications:

Ideal for retrofits. Machine and plant construc-
 tions, automotive, shipbuilding, automation,
 electrical installations, highly dynamic.

Mechanical protection for cables and
 conductors, pressure and impact resistant,
 flexible, high tensile and compressive strength.



Art. Nr. Schwarz Art. No. black	NW DN	ID mm	AD mm OD mm	VPE Unit
PADC06-L	6	6,2	11,2	50m
PADC10-L	10	7,9	12,9	50m
PADC12-L	12	10,3	15,8	50m
PADC17-L	17	13,9	21,0	50m
PADC23-L	23	20,5	28,3	50m
PADC29-L	29	26,6	34,5	25m
PADC36-L	36	32,0	41,8	25m
PADC48-L	48	43,0	54,2	25m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
 JAW-FIT series (S.40-54)



SSV Serie (S.55)
 SSV series (S.55)

HF Halogenfrei DIN 53474
 Halogen-free DIN EN 53474

Wellrohr teilbar

TYP PPDC-L

Material: Polypropylen mod.
Schutzart: IP54
Brennbarkeit: UL94 V2
Temperaturbereich: -40°C bis +135°C
 kurzzeitig +140°C

Einsatzbereiche:

Speziell für nachträgliche Installationen
 Maschinen- und Anlagenbau, Fahrzeugbau,
 Schiffsbau, Automation, Elektroanlagen.

Mechanischer Schutz für Kabel und
 Leitungen, druck- und schlagfest, flexibel,
 hohe Zug- und Scheiteldruckfestigkeit.

Splittable Conduit PP

TYPE PPDC-L

Material: Polypropylene mod.
Protection rating: IP54
Flammability: UL94 V2
Temperature range: -40°C up to +135°C
 short-term +140°C

Applications:

Ideal for retrofits. Machine and plant construc-
 tions, automotive, shipbuilding, automation,
 electrical installations.

Mechanical protection for cables and
 conductors, pressure and impact resistant,
 flexible, high tensile and compressive strength.



Art. Nr. PPDC Art. No. PPDC	NW DN	ID mm	AD mm OD mm	VPE Unit
PPDC06-L	6	6,2	11,2	50m
PPDC10-L	10	7,9	12,9	50m
PPDC12-L	12	10,3	15,8	50m
PPDC17-L	17	13,9	21,0	50m
PPDC23-L	23	20,5	28,3	50m
PPDC29-L	29	26,6	34,5	25m
PPDC36-L	36	32,0	41,8	25m
PPDC48-L	48	43,0	54,2	25m

Passende Verschraubungen Suitable fittings



JAW-FIT Serie (S.40-54)
 JAW-FIT series (S.40-54)



SSV Serie (S.55)
 SSV series (S.55)

HF Halogenfrei DIN 53474
 Halogen-free DIN EN 53474

Das komplette JAW-FIT Sortiment

The whole range of jaw-fit fittings

IP69K auf Anfrage / On request IP69K

Verstärktes Anschlussgewinde - Reinforced connecting thread

M = Metallgewinde - metal thread

M

Schutzart IP- Ingress Protection IP

6 = IP66 Statisch - IP66 for fixed installation
IP54 Dynamisch - IP54 for dynamic installation
8 = IP68 Statisch - IP68 for fixed installation
IP67 Dynamisch - IP67 for dynamic installation

8

Farbe - Colors

B = schwarz - black
G = grau - grey

B

Typ - Type

SM = gerade Verschraubung, Außengewinde
straight fitting, male thread
SR = mit integrierter Zugentlastung
with integrated strain relief
SF = gerade Verschraubung mit Innengewinde
straight fitting, female thread
SFA = gerade Verschraubung mit AMP- Anschluss
straight fitting with AMP connection
SFB = gerade Verschraubung mit BURNDY-Anschluss
straight fitting for BURNDY connectors
BN = Bogen 90° mit Außengewinde
90° elbow with male thread
FL = Winkel 90° mit Flanschanschluss
90° elbow with flange
BF = Bogen 45° mit Außengewinde
45° elbow with male thread
FF = Bogen 45° mit Flanschanschluss
45° elbow with flange
PC = Verbindung Wellrohr mit starrem Rohr
connector for corrugated conduit with rigid pipe
CS = Wellrohrverbinder
connector for corrugated conduits
Y = Y-Verteiler
Y-connector
T = T-Verteiler
T-connector
AD = Reduzierung
reducer

SM

Ø Schlauch-Nennweite - nominal conduit width

17

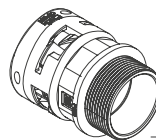
Gewindeart - thread Type

G = GAS UNI - ISO 228 -1
GAS UNI - ISO 228-1
P = PG - DIN 40430
PG - DIN 40430
M = Metrisch EN 60423
Iso Metric - EN 60423
N = NPT - ANSI/ASME B 1.20.1
NPT - ANSI/ASME B 1.20.1
U = UNEF
UNEF
F = Metrisches Feingewinde
metric fine thread

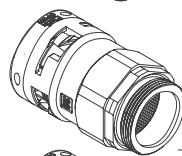
P

Gewindegröße - thread size

13



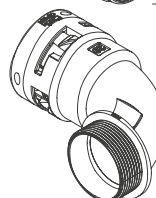
TYP SM



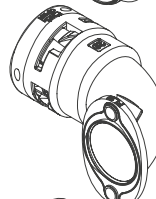
TYP SR



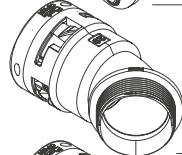
TYP SF



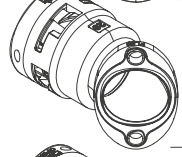
TYP BN



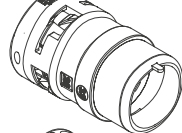
TYP FL



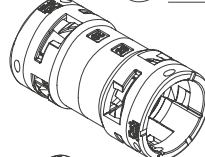
TYP BF



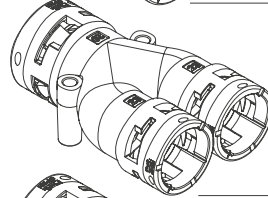
TYP FF



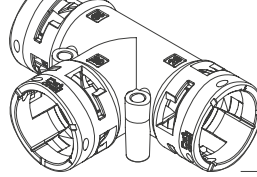
TYP PC



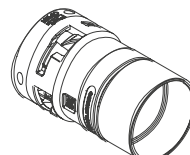
TYP CS



TYP Y



TYP T



TYP AD

Wellrohr-Verschraubung TYP SM

Material: Polyamid 6
Ausführung: Gerade Verschraubung
Außengewinde, starr
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

6GSM/8GSM: Grau RAL 7001
6BSM/8BSM: Schwarz RAL 9005

Conduit-Fitting TYPE SM

Material: Polyamide 6
Design: straight fitting,
rigid - male thread
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
short-term +150°C

6GSM/8GSM: grey RAL 7001
6BSM/8BSM: black RAL 9005



GEWINDEART METRISCH

Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6*SM07M12	8*SM07M12	M12	7	9,0	12	14	40,0	100
6*SM07M16	8*SM07M16	M16	7	9,0	12	14	40,0	100
6*SM10M12	8*SM10M12	M12	10	8,8	12	17	41,4	100
6*SM10M16	8*SM10M16	M16	10	10,5	12	17	41,4	100
6*SM10M20	8*SM10M20	M20	10	15,0	12	17	41,4	100
6*SM12M16	8*SM12M16	M16	12	11,0	12	20	44,6	100
6*SM12M20	8*SM12M20	M20	12	13,0	12	20	44,6	100
6*SM17M20	8*SM17M20	M20	17	14,0	13	26	46,8	50
6*SM17M25	8*SM17M25	M25	17	18,5	13	26	46,8	50
6*SM23M25	8*SM23M25	M25	23	19,0	14	32	57,0	30
6*SM23M32	8*SM23M32	M32	23	27,0	14	32	57,0	30
6*SM29M32	8*SM29M32	M32	29	26,0	15	40	59,0	20
6*SM29M40	8*SM29M40	M40	29	33,5	15	40	59,0	20
6*SM36M40	8*SM36M40	M40	36	33,7	17	50	69,0	20
6*SM36M50	8*SM36M50	M50	36	40,0	17	50	69,0	20
6*SM48M50	8*SM48M50	M50	48	42,0	17	64	75,5	10
6*SM48M63	8*SM48M63	M63	48	49,0	17	64	75,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories

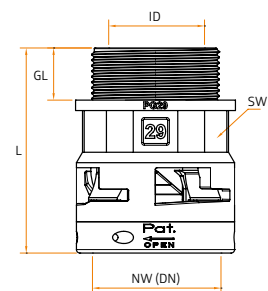
BC (S.60) SC (S.59)
 SWC (S.61)



GEWINDEART PG

Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6*SM07P07	8*SM07P07	PG07	7	9,0	12	14	40,0	100
6*SM07P09	8*SM07P09	PG09	7	9,0	12	14	40,0	100
6*SM07P11	8*SM07P11	PG11	7	15,0	12	14	40,0	100
6*SM07P13	8*SM07P13	PG13,5	7	15,0	12	14	40,0	100
6*SM10P07	8*SM10P07	PG07	10	8,8	12	17	41,4	100
6*SM10P09	8*SM10P09	PG09	10	10,5	12	17	41,4	100
6*SM10P11	8*SM10P11	PG11	10	15,0	12	17	41,4	100
6*SM10P13	8*SM10P13	PG13,5	10	15,0	12	17	41,4	100
6*SM12P09	8*SM12P09	PG09	12	11,0	12	20	44,6	100
6*SM12P11	8*SM12P11	PG11	12	13,0	12	20	44,6	100
6*SM12P13	8*SM12P13	PG13,5	12	13,0	12	20	44,6	100
6*SM12P16	8*SM12P16	PG16	12	15,0	12	20	44,6	100
6*SM17P11	8*SM17P11	PG11	17	14,0	13	26	46,8	50
6*SM17P13	8*SM17P13	PG13,5	17	16,0	13	26	46,8	50
6*SM17P16	8*SM17P16	PG16	17	16,0	13	26	46,8	50
6*SM23P16	8*SM23P16	PG16	23	19,0	14	32	57,0	30
6*SM23P21	8*SM23P21	PG21	23	22,0	14	32	57,0	30
6*SM29P29	8*SM29P29	PG29	29	30,5	15	40	59,0	20
6*SM36P29	8*SM36P29	PG29	36	31,5	13	50	65,0	20
6*SM36P36	8*SM36P36	PG36	36	38,0	17	50	69,0	20
6*SM48P36	8*SM48P36	PG36	48	40,0	17	64	75,5	10
6*SM48P42	8*SM48P42	PG42	48	47,0	17	64	75,5	10
6*SM48P48	8*SM48P48	PG48	48	49,0	17	64	75,5	10

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP SM

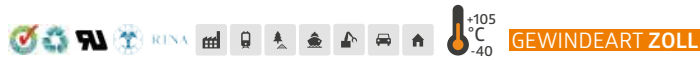
Material: Polyamid 6
Ausführung: Gerade Verschraubung
Außengewinde, starr
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

6GSM/8GSM: Grau RAL 7001
6BSM/8BSM: Schwarz RAL 9005

Conduit-Fitting TYPE SM

Material: Polyamide 6
Design: straight fitting
rigid - male thread
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
short-term +150°C

6GSM/8GSM: grey RAL 7001
6BSM/8BSM: black RAL 9005



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6*SM07G01	8*SM07G01	1/4"	7	9,0	12	14	40,0	100
6*SM10G01	8*SM10G01	1/4"	10	8,8	12	17	41,4	100
6*SM10G02	8*SM10G02	3/8"	10	10,5	12	17	41,4	100
6*SM12G02	8*SM12G02	3/8"	12	11,0	12	20	44,6	100
6*SM12G03	8*SM12G03	1/2"	12	15,0	12	20	44,6	100
6*SM17G03	8*SM17G03	1/2"	17	16,0	13	26	46,8	50
6*SM23G04	8*SM23G04	3/4"	23	22,0	14	32	57,0	30
6*SM29G05	8*SM29G05	1"	29	26,0	15	40	59,0	20
6*SM36G06	8*SM36G06	1" 1/4	36	33,7	17	50	69,0	20
6*SM48G07	8*SM48G07	1" 1/2	48	40,0	17	64	75,5	10
6*SM48G08	8*SM48G08	2"	48	49,0	17	64	75,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according to DN (p.28-39)

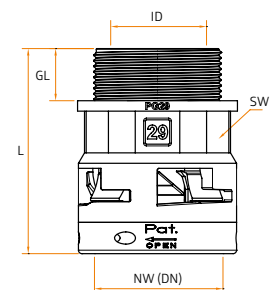
Passendes Zubehör
Suitable accessories

BC (S.60) SC (S.59)
 SWC (S.61)



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6*SM12N03	8*SM12N03	1/2" NPT	12	14,0	13,5	20	46,0	100
6*SM17N03	8*SM17N03	1/2" NPT	17	15,0	13,5	26	47,3	50
6*SM23N04	8*SM23N04	3/4" NPT	23	20,0	14,0	32	57,0	30
6*SM29N05	8*SM29N05	1" NPT	29	26,0	17,3	40	61,3	20
6*SM36N06	8*SM36N06	1" 1/4 NPT	36	33,7	18,0	50	70,0	20
6*SM48N08	8*SM48N08	2" NPT	48	50,0	19,0	64	77,5	10

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP MSM

Material: Polyamid 6
Gewinde Messing vern.
Ausführung: Gerade Verschraubung
Aussengewinde, drehbar
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

M8GSM: Grau RAL 7001
M8BSM: Schwarz RAL 9005

Conduit-Fitting TYPE MSM

Material: Polyamide 6
nickel-plated brass
Design: straight fitting
swivelling - male thread
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C

M8GSM: grey RAL 7001
M8BSM: black RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
M8*SM10M16	M16	10	11,2	11	17	20	53,4	50
M8*SM12M16	M16	12	12,0	11	20	24	57,1	50
M8*SM17M20	M20	17	15,5	12	26	28	59,3	50
M8*SM17M25	M25	17	16,2	12	26	28	59,3	50
M8*SM23M25	M25	23	20,0	12	32	35	68,5	30
M8*SM23M32	M32	23	22,6	12	32	35	68,5	30
M8*SM29M32	M32	29	27,0	13,5	40	42	72,0	20
M8*SM36M40	M40	36	35,5	13,5	50	52	81,0	20
M8*SM48M50	M50	48	45,0	14,5	64	64	92,0	10
M8*SM48M63	M63	48	47,7	14,5	64	64	92,0	10

Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according to DN (p.28-39)

Passendes Zubehör
Suitable accessories

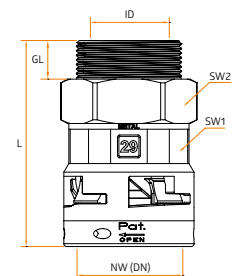
BC (S.60) SC (S.59)
 SWC (S.61)



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
M8*SM10P09	PG09	10	11,2	11	17	20	53,4	50
M8*SM12P11	PG11	12	12,0	11	20	24	57,1	50
M8*SM12P13	PG13,5	12	12,0	12	20	24	58,1	50
M8*SM17P13	PG13,5	17	16,2	12	26	28	59,3	50
M8*SM17P16	PG16	17	16,2	12	26	28	59,3	50
M8*SM23P21	PG21	23	22,6	12	32	35	68,5	30
M8*SM29P29	PG29	29	32,0	13,5	40	42	72,0	20
M8*SM36P36	PG36	36	38,5	13,5	50	52	81,0	20
M8*SM48P48	PG48	48	47,7	14,5	64	64	92,0	10

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP SR

Material: Polyamid 6
Ausführung: Gerade Verschraubung
Außengewinde, starr mit
integrierter Kabelver-
schraubung
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C
Farbe: Schwarz RAL 9005

Conduit-Fitting TYPE SR

Material: Polyamide 6
Design: straight fitting
rigid - male thread with
integrated cable gland
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C
Colour: black RAL 9005



Art. Nr. Art. No.	Gewinde Thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
8BSR10M1607	M16	4,0 - 6,5	10	9,5	9	20	19	53,4	50
8BSR10M1608	M16	5,0 - 8,0	10	9,5	9	20	19	53,4	50
8BSR10M1609	M16	6,5 - 9,5	10	9,5	9	20	19	53,4	50
8BSR12M2007	M20	4,0 - 6,5	12	10,5	9	26	24	57,1	50
8BSR12M2008	M20	5,0 - 8,0	12	10,5	9	26	24	57,1	50
8BSR12M2009	M20	6,5 - 9,5	12	10,5	9	26	24	57,1	50
8BSR12M2011	M20	7,0 - 10,5	12	10,5	9	26	24	57,1	50
8BSR12M2013	M20	9,0 - 13,0	12	10,5	9	26	24	57,1	50
8BSR17M2007	M20	4,0 - 6,5	17	13,0	9	26	24	58,3	50
8BSR17M2008	M20	5,0 - 8,0	17	13,0	9	26	24	58,3	50
8BSR17M2009	M20	6,5 - 9,5	17	13,0	9	26	24	58,3	50
8BSR17M2011	M20	7,0 - 10,5	17	13,0	9	26	24	58,3	50
8BSR17M2013	M20	9,0 - 13,0	17	13,0	9	26	24	58,3	50
8BSR23M2511	M25	7,0 - 10,5	23	20,5	11	34	33	78,0	30
8BSR23M2513	M25	9,0 - 13,0	23	20,5	11	34	33	78,0	30
8BSR23M2516	M25	11,5 - 15,5	23	20,5	11	34	33	78,0	30
8BSR23M2518	M25	14,0 - 18,0	23	20,5	11	34	33	78,0	30
8BSR23M2520	M25	17,0 - 20,5	23	20,5	11	34	33	78,0	30
8BSR23M3216	M32	11,5 - 15,5	23	20,5	11	42	43	82,5	30
8BSR23M3218	M32	14,0 - 18,0	23	20,5	11	42	43	82,5	30
8BSR23M3220	M32	17,0 - 20,5	23	20,5	11	42	43	82,5	30
8BSR29M3218	M32	14,0 - 18,0	29	28,0	11	42	43	82,5	20
8BSR29M3220	M32	17,0 - 20,5	29	28,0	11	42	43	82,5	20
8BSR29M3225	M32	20,0 - 25,0	29	28,0	11	42	43	82,5	20
8BSR29M3228	M32	24,0 - 28,0	29	28,0	11	42	43	82,5	20
8BSR36M4032	M40	27,0 - 32,0	36	36,0	14	55	54	95,0	20
8BSR36M4034	M40	29,0 - 34,0	36	36,0	14	55	54	95,0	20
8BSR36M4036	M40	32,0 - 36,0	36	36,0	14	55	54	95,0	20
8BSR36M5032	M50	27,0 - 32,0	36	36,0	14	55	54	90,0	20
8BSR36M5034	M50	29,0 - 34,0	36	36,0	14	55	54	90,0	20
8BSR36M5036	M50	32,0 - 36,0	36	36,0	14	55	54	90,0	20

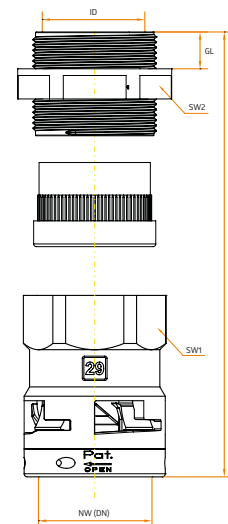
Geeignet für Schläuche des Typs
Suitable for conduit types

 Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories

 BC
(S.60)  SC
(S.59)
 SWC
(S.61)

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP SR

Material: Polyamid 6
Ausführung: Gerade Verschraubung
Außengewinde, starr mit
integrierter Kabelver-
schraubung
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C
Farbe: **Schwarz** RAL 9005

Conduit-Fitting TYPE SR

Material: Polyamide 6
Design: straight fitting
rigid - male thread with
integrated cable gland
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C
Colour: **black** RAL 9005



Art. Nr. Art. No.	Gewinde Thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
8BSR07P0707	PG7	4,0 - 6,5	7	6,2	8,0	17	16	50,5	100
8BSR10P0707	PG7	4,0 - 6,5	10	6,2	8,0	17	16	51,9	50
8BSR10P0907	PG9	4,0 - 6,5	10	9,5	9,0	20	19	53,4	50
8BSR10P0908	PG9	5,0 - 8,0	10	9,5	9,0	20	19	53,4	50
8BSR10P0909	PG9	6,5 - 9,5	10	9,5	9,0	20	19	53,4	50
8BSR12P1107	PG11	4,0 - 6,5	12	10,5	9,0	24	22	57,2	50
8BSR12P1108	PG11	5,0 - 8,0	12	10,5	9,0	24	22	57,2	50
8BSR12P1109	PG11	6,5 - 9,5	12	10,5	9,0	24	22	57,2	50
8BSR12P1111	PG11	7,0 - 10,5	12	10,5	9,0	24	22	57,2	50
8BSR12P1307	PG13,5	4,0 - 6,5	12	13,0	9,0	26	24	57,1	50
8BSR12P1308	PG13,5	5,0 - 8,0	12	13,0	9,0	26	24	57,1	50
8BSR12P1309	PG13,5	6,5 - 9,5	12	13,0	9,0	26	24	57,1	50
8BSR12P1311	PG13,5	7,0 - 10,5	12	13,0	9,0	26	24	57,1	50
8BSR12P1313	PG13,5	9,0 - 13,0	12	13,0	9,0	26	24	57,1	50
8BSR17P1307	PG13,5	4,0 - 6,5	17	13,0	9,0	26	24	58,3	50
8BSR17P1308	PG13,5	5,0 - 8,0	17	13,0	9,0	26	24	58,3	50
8BSR17P1309	PG13,5	6,5 - 9,5	17	13,0	9,0	26	24	58,3	50
8BSR17P1311	PG13,5	7,0 - 10,5	17	13,0	9,0	26	24	58,3	50
8BSR17P1313	PG13,5	9,0 - 13,0	17	13,0	9,0	26	24	58,3	50
8BSR17P1607	PG16	4,0 - 6,5	17	15,5	9,5	27	27	57,8	50
8BSR17P1608	PG16	5,0 - 8,0	17	15,5	9,5	27	27	57,8	50
8BSR17P1609	PG16	6,5 - 9,5	17	15,5	9,5	27	27	57,8	50
8BSR17P1611	PG16	7,0 - 10,5	17	15,5	9,5	27	27	57,8	50
8BSR17P1613	PG16	9,0 - 13,0	17	15,5	9,5	27	27	57,8	50
8BSR17P1616	PG16	11,5 - 15,5	17	15,5	9,5	27	27	57,8	50
8BSR23P2111	PG21	7,0 - 10,5	23	20,5	11,0	34	33	74,0	30
8BSR23P2113	PG21	9,0 - 13,0	23	20,5	11,0	34	33	74,0	30
8BSR23P2116	PG21	11,5 - 15,5	23	20,5	11,0	34	33	74,0	30
8BSR23P2118	PG21	14,0 - 18,0	23	20,5	11,0	34	33	74,0	30
8BSR23P2120	PG21	17,0 - 20,5	23	20,5	11,0	34	33	74,0	30
8BSR23P2916	PG29	11,5 - 15,5	23	20,5	11,5	42	43	78,0	30
8BSR23P2918	PG29	14,0 - 18,0	23	20,5	11,5	42	43	78,0	30
8BSR23P2920	PG29	17,0 - 20,5	23	20,5	11,5	42	43	78,0	30
8BSR29P2918	PG29	14,0 - 18,0	29	28,0	11,5	42	43	78,0	20
8BSR29P2920	PG29	17,0 - 20,5	29	28,0	11,5	42	43	78,0	20
8BSR29P2925	PG29	20,0 - 25,0	29	28,0	11,5	42	43	78,0	20
8BSR29P2928	PG29	24,0 - 28,0	29	28,0	11,5	42	43	78,0	20
8BSR36P3632	PG36	27,0 - 32,0	36	36,0	14,0	55	54	90,0	20
8BSR36P3634	PG36	29,0 - 34,0	36	36,0	14,0	55	54	90,0	20
8BSR36P3636	PG36	32,0 - 36,0	36	36,0	14,0	55	54	90,0	20
8BSR48P4844	PG48	39,0 - 44,0	48	44,0	14,0	70	67	99,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories



BC
(S.60)

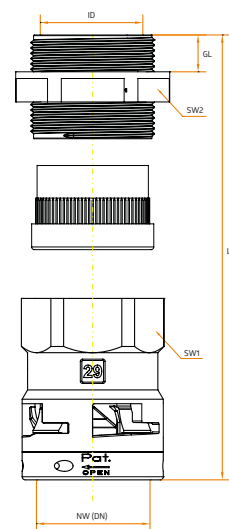


SC
(S.59)



SWC
(S.61)

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP MSR

Material: Polyamid 6
Gewinde Messing vern.
Ausführung: Gerade Verschraubung
Außengewinde, starr mit
integrierter Kabelver-
schraubung
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C
Farbe: **Schwarz** **RAL 9005**

Conduit-Fitting TYPE MSR

Material: Polyamide 6
nickel-plated brass thread
Design: straight fitting
rigid - male thread with
integrated cable gland
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C
Colour: **black** **RAL 9005**



Art. Nr. Art. No.	Gewinde Thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
M8BSR07M1207	M12	4,0 - 6,5	7	7,0	5,0	17	15	46,5	50
M8BSR10M1607	M16	4,0 - 6,5	10	10,6	8,0	20	19	50,9	50
M8BSR10M1608	M16	5,0 - 8,0	10	10,6	8,0	20	19	50,9	50
M8BSR10M1609	M16	6,5 - 9,5	10	10,6	8,0	20	19	50,9	50
M8BSR12M1611	M16	7,0 - 10,5	12	10,6	6,0	24	20	53,1	50
M8BSR12M2007	M20	4,0 - 6,5	12	8,5	8,0	24	22	55,1	50
M8BSR12M2008	M20	5,0 - 8,0	12	13,0	8,0	24	22	55,1	50
M8BSR12M2009	M20	6,5 - 9,5	12	13,0	8,0	24	22	55,1	50
M8BSR12M2011	M20	7,0 - 10,5	12	13,0	8,0	24	22	55,1	50
M8BSR17M2007	M20	4,0 - 6,5	17	14,5	8,0	26	22	56,3	50
M8BSR17M2008	M20	5,0 - 8,0	17	14,5	8,0	26	22	56,3	50
M8BSR17M2009	M20	6,5 - 9,5	17	14,5	8,0	26	22	56,3	50
M8BSR17M2011	M20	7,0 - 10,5	17	14,5	8,0	26	22	56,3	50
M8BSR17M2013	M20	9,0 - 13,0	17	14,5	8,0	26	22	56,3	50
M8BSR17M2507	M25	4,0 - 6,5	17	16,0	9,0	27	28	57,3	50
M8BSR17M2508	M25	5,0 - 8,0	17	16,0	9,0	27	28	57,3	50
M8BSR17M2509	M25	6,5 - 9,5	17	16,0	9,0	27	28	57,3	50
M8BSR17M2511	M25	7,0 - 10,5	17	16,0	9,0	27	28	57,3	50
M8BSR17M2513	M25	9,0 - 13,0	17	16,0	9,0	27	28	57,3	50
M8BSR17M2516	M25	11,5 - 15,5	17	16,0	9,0	27	28	57,3	50
M8BSR23M2513	M25	9,0 - 13,0	23	20,5	9,0	34	30	70,5	30
M8BSR23M2516	M25	11,5 - 15,5	23	20,5	9,0	34	30	70,5	30
M8BSR23M2518	M25	14,0 - 18,0	23	20,5	9,0	34	30	70,5	30
M8BSR23M2520	M25	17,0 - 20,5	23	20,5	9,0	34	30	70,5	30
M8BSR23M3211	M32	7,0 - 10,5	23	22,0	10,0	34	35	71,5	30
M8BSR23M3213	M32	9,0 - 13,0	23	22,0	10,0	34	35	71,5	30
M8BSR23M3216	M32	11,5 - 15,5	23	22,0	10,0	34	35	71,5	30
M8BSR23M3218	M32	14,0 - 18,0	23	22,0	10,0	34	35	71,5	30
M8BSR23M3220	M32	17,0 - 20,5	23	22,0	10,0	34	35	71,5	30
M8BSR29M3225	M32	20,0 - 25,0	29	26,0	10,0	42	40	74,5	20
M8BSR29M4016	M40	11,5 - 15,5	29	29,0	10,0	42	42	73,5	20
M8BSR29M4018	M40	14,0 - 18,0	29	29,0	10,0	42	42	73,5	20
M8BSR29M4020	M40	17,0 - 20,5	29	29,0	10,0	42	42	73,5	20
M8BSR29M4025	M40	20,0 - 25,0	29	29,0	10,0	42	42	73,5	20
M8BSR29M4028	M40	24,0 - 28,0	29	29,0	10,0	42	42	73,5	20
M8BSR36M4032	M40	27,0 - 32,0	36	34,0	8,5	55	50	81,5	20
M8BSR36M4034	M40	29,0 - 34,0	36	34,0	8,5	55	50	81,5	20
M8BSR36M5032	M50	27,0 - 32,0	36	37,5	12,0	55	52	85,0	20
M8BSR36M5034	M50	29,0 - 34,0	36	37,5	12,0	55	52	85,0	20
M8BSR36M5036	M50	32,0 - 36,0	36	37,5	12,0	55	52	85,0	20
M8BSR48M6344	M63	39,0 - 44,0	48	47,0	10,0	70	64	93,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories



BC
(S.60)

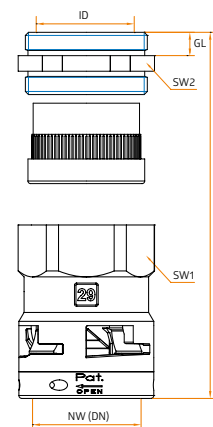


SC
(S.59)



SWC
(S.61)

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP MSR

Material: Polyamid 6
Gewinde Messing vern.
Ausführung: Gerade Verschraubung
Außengewinde, starr mit
integrierter Kabelver-
schraubung
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C
Farbe: **Schwarz** **RAL 9005**

Conduit-Fitting TYPE MSR

Material: Polyamide 6
nickel-plated brass thread
Design: straight fitting
rigid - male thread with
integrated cable gland
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C
Colour: **black** **RAL 9005**



Art. Nr. Art. No.	Gewinde Thread	Klemmbereich mm	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
M8BSR07P0707	PG7	4,0 - 6,5	7	7,0	5,0	17	15	46,5	100
M8BSR10P0907	PG9	4,0 - 6,5	10	9,7	6,0	20	17	49,4	50
M8BSR10P0908	PG9	5,0 - 8,0	10	9,7	6,0	20	17	49,4	50
M8BSR10P0909	PG9	6,5 - 9,5	10	9,7	6,0	20	17	49,4	50
M8BSR12P1107	PG11	4,0 - 6,5	12	10,7	6,0	24	20	53,1	50
M8BSR12P1108	PG11	5,0 - 8,0	12	10,7	6,0	24	20	53,1	50
M8BSR12P1109	PG11	6,5 - 9,5	12	10,7	6,0	24	20	53,1	50
M8BSR12P1111	PG11	7,0 - 10,5	12	10,7	6,0	24	20	53,1	50
M8BSR17P1307	PG13,5	4,0 - 6,5	17	14,5	6,5	26	22	54,8	50
M8BSR17P1308	PG13,5	5,0 - 8,0	17	14,5	6,5	26	22	54,8	50
M8BSR17P1309	PG13,5	6,5 - 9,5	17	14,5	6,5	26	22	54,8	50
M8BSR17P1311	PG13,5	7,0 - 10,5	17	14,5	6,5	26	22	54,8	50
M8BSR17P1313	PG13,5	9,0 - 13,0	17	14,5	6,5	27	22	54,8	50
M8BSR17P1607	PG16	4,0 - 6,5	17	16,0	6,5	27	24	54,8	50
M8BSR17P1608	PG16	5,0 - 8,0	17	16,0	6,5	27	24	54,8	50
M8BSR17P1609	PG16	6,5 - 9,5	17	16,0	6,5	27	24	54,8	50
M8BSR17P1611	PG16	7,0 - 10,5	17	16,0	6,5	27	24	54,8	50
M8BSR17P1613	PG16	9,0 - 13,0	17	16,0	6,5	27	24	54,8	50
M8BSR17P1616	PG16	11,5 - 15,5	17	16,0	6,5	27	24	54,8	50
M8BSR23P2111	PG21	7,0 - 10,5	23	21,2	7,5	34	30	69,0	30
M8BSR23P2113	PG21	9,0 - 13,0	23	21,2	7,5	34	30	69,0	30
M8BSR23P2116	PG21	11,5 - 15,5	23	21,2	7,5	34	30	69,0	30
M8BSR23P2118	PG21	14,0 - 18,0	23	21,2	7,5	34	30	69,0	30
M8BSR23P2120	PG21	17,0 - 20,5	23	21,2	7,5	34	30	69,0	30
M8BSR29P2916	PG29	11,5 - 15,5	29	28,5	9,2	42	40	73,2	20
M8BSR29P2918	PG29	14,0 - 18,0	29	28,5	9,2	42	40	73,2	20
M8BSR29P2920	PG29	17,0 - 20,5	29	28,5	9,2	42	40	73,2	20
M8BSR29P2925	PG29	20,0 - 25,0	29	28,5	9,2	42	40	73,2	20
M8BSR29P2928	PG29	24,0 - 28,0	29	28,5	9,2	42	40	73,2	20
M8BSR36P3632	PG36	27,0 - 32,0	36	37,5	9,0	55	50	82,0	20
M8BSR36P3634	PG36	29,0 - 34,0	36	37,5	9,0	55	50	82,0	20
M8BSR36P3636	PG36	32,0 - 36,0	36	37,5	9,0	55	50	82,0	20
M8BSR48P4844	PG48	39,0 - 44,0	48	47,0	10,0	70	64	93,5	10

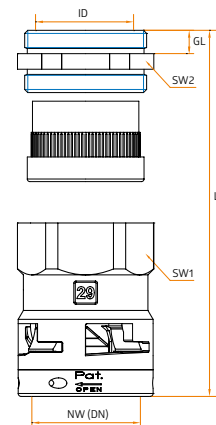
Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories

BC (S.60) SC (S.59)
SWC (S.61)

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung

Material:	Polyamid 6
Ausführung:	Gerade Verschraubung Innengewinde, starr
Schutzart:	IP68
Temperaturbereich:	-40°C bis +105°C kurzzeitig bis +150°C

Farbe: Schwarz RAL 9005

Conduit-Fitting

Material:	Polyamide 6
Design:	straight fitting rigid - female thread
Protection rating:	IP68
Temperature range:	-40°C up to +105°C short-term +150°C

Colour: black RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
8BSF07M12	M12	7	9,0	8	15	35	100
8BSF10M16	M16	10	11,6	11	20	39,4	50
8BSF12M16	M16	12	12,5	11	22	43	50
8BSF17M20	M20	17	18,0	11,5	26	44,35	50
8BSF23M25	M25	23	23,0	11,5	30	53,5	30
8BSF23M32	M32	23	26,0	11,5	38	53,5	30
8BSF29M32	M32	29	29,5	11,5	38	55	20
8BSF29M40	M40	29	29,5	11,5	44	55	20
8BSF36M40	M40	36	36,5	11,5	45	63	20
8BSF48M50	M50	48	48,0	15,5	58	73,5	10
8BSF48M63	M63	48	48,5	18,0	70	76,5	10

GEWINDEART PG

Art. Nr. Art. no.	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
8BSF07P07	PG7	7	7,1	9,0	17	37,5	100
8BSF10P07	PG7	10	7,1	9,0	17	38,9	50
8BSF10P09	PG9	10	10,1	9,0	20	39,4	50
8BSF12P11	PG11	12	11,5	9,6	24	43,2	50
8BSF12P13	PG13,5	12	13,5	9,5	26	43,1	50
8BSF17P13	PG13,5	17	13,5	9,5	26	44,3	50
8BSF17P13	PG16	17	16,2	9,0	27	43,3	50
8BSF23P21	PG21	23	21,0	11,0	34	57,0	30
8BSF23P29	PG29	23	26,0	13,0	42	59,5	30
8BSF29P29	PG29	29	29,2	13,0	42	59,5	20
8BSF36P36	PG36	36	37,8	13,5	55	68,0	20
8BSF48P48	PG48	48	47,0	15,0	70	76,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories

BC
(S.60)SC
(S.59)SWC
(S.61)

Wellrohr-Verschraubung TYP MSF

Material: Polyamid 6
Gewinde Messing vern.
Ausführung: Gerade Verschraubung
Innengewinde, starr
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C
Farbe: **Schwarz** RAL 9005

Conduit-Fitting TYPE MSF

Material: Polyamide 6
nickel-plated brass thread
Design: straight fitting
rigid - female thread
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C
Colour: black RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
M8BSF07M12	M12	7	9	9	17	36,5	100
M8BSF10M16	M16	10	10,1	10	20	38,4	50
M8BSF12M16	M16	12	12,1	10	24	42,2	50
M8BSF17M20	M20	17	16,2	10	26	43,4	50
M8BSF23M25	M25	23	22,6	13,5	34	56,0	30
M8BSF29M32	M32	29	29,2	15	42	58,5	20
M8BSF36M40	M40	36	37,2	15	50	67,0	20
M8BSF48M50	M50	48	48,5	15	58	73,5	10
M8BSF48M63	M63	48	49,2	16	70	76,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types

 Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according to DN (p.28-39)

Passendes Zubehör
Suitable accessories

 BC (S.60)  SC (S.59)
 SWC (S.61)

GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
M8BSF07P07	PG7	7	7,1	8,0	17	36,5	100
M8BSF10P09	PG9	10	10,1	8,0	20	38,4	50
M8BSF12P11	PG11	12	11,5	8,5	24	42,1	50
M8BSF17P13	PG13,5	17	13,5	8,5	26	43,3	50
M8BSF17P16	PG16	17	16,2	9,0	27	43,3	50
M8BSF23P21	PG21	23	21,0	10,0	34	56,0	30
M8BSF29P29	PG29	29	29,0	12,0	42	58,5	20
M8BSF36P36	PG36	36	37,8	12,5	55	67,0	20
M8BSF48P48	PG48	48	47,0	15,0	70	76,5	10

Wellrohr-Verschraubung TYP BN

Material: Polyamid 6
Ausführung: Bogen 90°
Außengewinde, starr
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

6GBN/8GBN: Grau RAL 7001
6BBN/8BBN: Schwarz RAL 9005

Conduit-Fitting TYPE BN

Material: Polyamide 6
Design: 90° elbow
rigid - male thread
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
Short term +150°C

6GBN/8GBN: grey RAL 7001
6BBN/8BBN: black RAL 9005



GEWINDEART METRISCH

Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6'BN07M12	8'BN07M12	M12	7	6,5	11	9,5	58,5	100
6'BN10M12	8'BN10M12	M12	10	6,5	11	9,5	59,5	100
6'BN10M16	8'BN10M16	M16	10	10,0	11	13,0	61,5	100
6'BN12M16	8'BN12M16	M16	12	10,0	11	14,0	64,0	100
6'BN12M20	8'BN12M20	M20	12	12,0	11	15,0	67,0	100
6'BN17M20	8'BN17M20	M20	17	13,8	12	17,0	75,0	50
6'BN23M25	8'BN23M25	M25	23	18,0	12	22,0	88,5	30
6'BN29M32	8'BN29M32	M32	29	23,7	13	28,0	100,3	20
6'BN36M40	8'BN36M40	M40	36	31,8	15	36,0	122,8	20
6'BN36M50	8'BN36M50	M50	36	36,0	15	40,0	127,5	20
6'BN48M50	8'BN48M50	M50	48	39,8	15	46,0	139,7	10
6'BN48M63	8'BN48M63	M63	48	47,8	15	55,0	144,0	10

Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

GEWINDEART PG

Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6'BN07P07	8'BN07P07	PG7	7	6,5	11	9,5	58,5	100
6'BN07P09	8'BN07P09	PG9	7	6,5	11	9,5	59,5	100
6'BN07P11	8'BN07P11	PG11	7	6,5	11	9,5	61,0	100
6'BN07P13	8'BN07P13	PG13,5	7	6,5	11	9,5	62,5	100
6'BN10P07	8'BN10P07	PG7	10	6,5	11	9,5	59,5	100
6'BN10P09	8'BN10P09	PG9	10	10,0	11	13,0	60,5	100
6'BN10P11	8'BN10P11	PG11	10	10,0	11	13,0	62,0	100
6'BN10P13	8'BN10P13	PG13,5	10	10,0	11	13,0	63,5	100
6'BN12P09	8'BN12P09	PG9	12	10,0	11	14,0	63,0	100
6'BN12P11	8'BN12P11	PG11	12	12,0	11	15,0	64,4	100
6'BN12P13	8'BN12P13	PG13,5	12	12,0	11	15,0	66,0	100
6'BN17P13	8'BN17P13	PG13,5	17	13,8	12	17,0	75,0	50
6'BN17P16	8'BN17P16	PG16	17	16,4	12	20,0	76,0	50
6'BN23P21	8'BN23P21	PG21	23	21,7	12	26,0	90,0	30
6'BN29P29	8'BN29P29	PG29	29	29,1	13	32,0	102,8	20
6'BN36P36	8'BN36P36	PG36	36	36,0	13	40,0	125,0	20
6'BN48P48	8'BN48P48	PG48	48	47,8	13	55,0	144,0	10

Passendes Zubehör
Suitable accessories



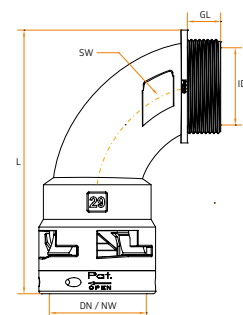
GEWINDEART ZOLL

Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6'BN07G01	8'BN07G01	1/4"	7	6,5	11	9,5	58,5	100
6'BN10G01	8'BN10G01	1/4"	10	6,5	11	9,5	59,5	100
6'BN10G02	8'BN10G02	3/8"	10	10,0	11	13,0	62,0	100
6'BN12G02	8'BN12G02	3/8"	12	10,0	11	14,0	64,4	100
6'BN12G03	8'BN12G03	1/2"	12	12,0	11	15,0	66,4	100
6'BN17G03	8'BN17G03	1/2"	17	13,8	12	17,0	75,5	50
6'BN23G04	8'BN23G04	3/4"	23	18,0	12	22,0	89,5	30
6'BN29G05	8'BN29G05	1"	29	23,7	15	28,0	101,3	20
6'BN36G06	8'BN36G06	1" 1/4	36	31,8	15	36,0	123,3	20
6'BN48G08	8'BN48G08	2"	48	47,8	18	55,0	144	10

GEWINDEART NPT

Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6'BN12N03	8'BN12N03	1/2" NPT	12	12,0	11,0	15	66,4	100
6'BN17N03	8'BN17N03	1/2" NPT	17	13,8	13,5	17	75,5	50
6'BN23N04	8'BN17N04	3/4" NPT	23	18,0	14,0	22	89,5	30
6'BN29N05	8'BN29N05	1" NPT	29	23,7	17,3	28	101,3	20
6'BN36N06	8'BN36N06	1" 1/4 NPT	36	31,8	18,0	36	123,3	20
6'BN48N08	8'BN48N08	2" NPT	48	47,8	19,0	55	144,0	10

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP MBN

Material: Polyamid 6
Gewinde Messing vern.
Ausführung: Bogen 90°
Außengewinde, drehbar
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

M8GBN: Grau RAL 7001
M8BBN: Schwarz RAL 9005

Conduit-Fitting TYPE MBN

Material: Polyamide 6
nickel-plated brass thread
Design: 90° elbow
swivelling - male thread
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C

M8GBN: grey RAL 7001
M8BBN: black RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
M8*BN10M16	M16	10	10,0	11,0	13	20	60,5	50
M8*BN12M16	M16	12	12,0	11,0	15	24	65,0	50
M8*BN12M20	M20	12	12,0	12,0	15	24	65,0	50
M8*BN17M20	M20	17	15,5	12,0	20	28	76,0	50
M8*BN17M25	M25	17	16,4	12,0	20	28	76,0	50
M8*BN23M25	M25	23	21,7	12,0	26	35	90,0	30
M8*BN23M32	M32	23	21,7	12,0	26	35	90,0	30
M8*BN29M32	M32	29	29,1	13,5	32	42	101,8	20
M8*BN36M40	M40	36	36,0	13,5	40	52	123,5	20
M8*BN48M50	M50	48	45,0	14,5	55	64	142,4	10
M8*BN48M63	M63	48	47,8	14,5	55	64	142,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

Passendes Zubehör
Suitable accessories



BC
(S.60)



SC
(S.59)



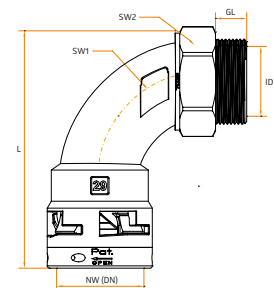
SWC
(S.61)



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW1 mm	SW2 mm	L mm	VPE Stk. Unit pcs.
M8*BN10P09	PG9	10	10,0	11,0	13	20	60,5	50
M8*BN12P11	PG11	12	12,0	11,0	15	24	65,0	50
M8*BN17P13	PG13.5	17	16,2	12,0	20	28	76,0	50
M8*BN17P16	PG16	17	16,4	12,0	20	28	76,0	50
M8*BN23P21	PG21	23	21,7	12,0	26	35	90,0	30
M8*BN29P29	PG29	29	29,1	13,5	32	42	101,8	20
M8*BN36P36	PG36	36	36,0	13,5	40	52	123,5	20
M8*BN48P48	PG48	48	47,8	14,5	55	64	142,4	10

Technische Zeichnung
Engineering drawing



Wellrohr-Verschraubung TYP BF

Material: Polyamid 6
Ausführung: Bogen 45°
Außengewinde, starr
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

6GBF/8GBF: Grau RAL 7001
6BBF/8BBF: Schwarz RAL 9005

Conduit-Fitting TYPE BF

Material: Polyamide 6
Design: 45° elbow
rigid - male thread
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
short-term +150°C

6GBF/8GBF: grey RAL 7001
6BBF/8BBF: black RAL 9005



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	L mm	VPE Stk. Unit pcs.
6*BF10M12	8*BF10M12	M12	10	6,5	11	52,0	100
6*BF10M16	8*BF10M16	M16	10	10,0	11	53,2	100
6*BF12M16	8*BF12M16	M16	12	10,0	11	57,2	100
6*BF12M20	8*BF12M20	M20	12	12,0	11	58,6	100
6*BF17M20	8*BF17M20	M20	17	13,8	12	65,0	50
6*BF23M25	8*BF23M25	M25	23	18,0	12	78,3	30
6*BF29M32	8*BF29M32	M32	29	23,7	13	86,2	20
6*BF36M40	8*BF36M40	M40	36	31,8	15	101,8	20
6*BF36M50	8*BF36M50	M50	36	36,0	15	105,3	20
6*BF48M50	8*BF48M50	M50	48	39,8	15	119,3	10
6*BF48M63	8*BF48M63	M63	48	47,8	15	123,5	10

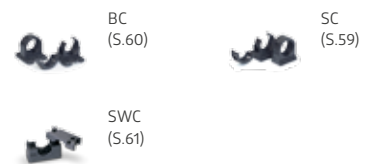
Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)



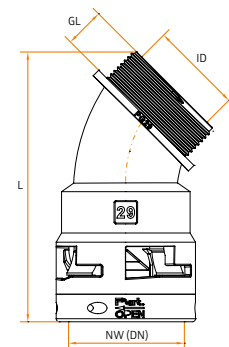
Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	Gewinde Thread	NW DN	ID mm	GL mm	L mm	VPE Stk. Unit pcs.
6*BF10P07	8*BF10P07	PG7	10	6,5	11	52,0	100
6*BF10P09	8*BF10P09	PG9	10	10,0	11	53,2	100
6*BF10P11	8*BF10P11	PG11	10	10,0	11	54,3	100
6*BF10P13	8*BF10P13	PG13,5	10	10,0	11	55,0	100
6*BF12P09	8*BF12P09	PG9	12	10,0	11	57,2	100
6*BF12P11	8*BF12P11	PG11	12	12,0	11	58,4	100
6*BF12P13	8*BF12P13	PG13,5	12	12,0	11	59,0	100
6*BF17P13	8*BF17P13	PG13,5	17	13,8	12	65,3	50
6*BF17P16	8*BF17P16	PG16	17	16,4	12	66,0	50
6*BF23P21	8*BF23P21	PG21	23	21,7	12	79,5	30
6*BF29P29	8*BF29P29	PG29	29	29,1	13	88,2	20
6*BF36P36	8*BF36P36	PG36	36	36,0	13	102,6	20
6*BF48P48	8*BF48P48	PG48	48	47,8	13	121,0	10

Passendes Zubehör
Suitable accessories



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	GAS Gewinde GAS Thread	NW DN	ID mm	GL mm	L mm	VPE Stk. Unit pcs.
6*BF10G01	8*BF10G01	1/4"	10	6,5	11	52,0	100
6*BF10G02	8*BF10G02	3/8"	10	10,0	11	53,5	100
6*BF12G02	8*BF12G02	3/8"	12	10,0	11	57,5	100
6*BF12G03	8*BF12G03	1/2"	12	12,0	11	58,8	100
6*BF17G03	8*BF17G03	1/2"	17	13,8	12	65,0	50
6*BF23G04	8*BF23G04	3/4"	23	18,0	12	78,6	30
6*BF29G05	8*BF29G05	1"	29	23,7	15	87,6	20
6*BF36G06	8*BF36G06	1" 1/4"	36	31,8	15	101,6	20
6*BF48G08	8*BF48G08	2"	48	47,8	18	115,0	10

Technische Zeichnung
Engineering drawing



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NPT Gewinde NPT Thread	NW DN	ID mm	GL mm	L mm	VPE Stk. Unit pcs.
6*BF12N03	8*BF12N03	1/2"	12	12,0	11,0	59,8	100
6*BF17N03	8*BF17N03	1/2"	17	13,8	13,5	65,5	50
6*BF23N04	8*BF23N04	3/4"	23	18,0	14,0	79,7	30
6*BF29N05	8*BF29N05	1"	29	23,7	17,3	88,8	20
6*BF36N06	8*BF36N06	1" 1/4"	36	31,8	18,0	103,6	20
6*BF48N08	8*BF48N08	2"	48	47,8	19,0	124,4	10

Wellrohr-Verschraubung TYP MBF

Material: Polyamid 6
Gewinde Messing vern.
Ausführung: Bogen 45°
Außengewinde, starr
Schutzart: IP68
Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

M8GBF: Grau RAL 7001
M8BBF: Schwarz RAL 9005

Conduit-Fitting TYPE MBF

Material: Polyamide 6
nickel-plated brass thread
Design: 45° elbow
rigid - male thread
Protection rating: IP68
Temperature range: -40°C up to +105°C
short-term +150°C

M8GBF: grey RAL 7001
M8BBF: black RAL 9005



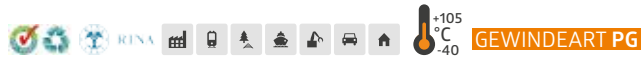
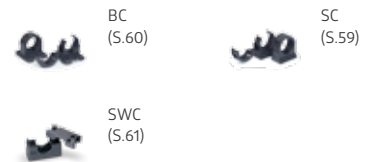
GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
M8*BF10M16	M16	10	10,0	11,0	20	63,0	50
M8*BF12M16	M16	12	12,0	11,0	24	68,0	50
M8*BF12M20	M20	12	12,0	12,0	24	68,0	50
M8*BF17M20	M20	17	15,5	12,0	28	74,6	50
M8*BF17M25	M25	17	16,4	12,0	28	74,6	50
M8*BF23M25	M25	23	21,7	12,0	35	88,2	30
M8*BF23M32	M32	23	21,7	12,0	35	88,2	30
M8*BF29M32	M32	29	29,1	13,5	42	97,0	20
M8*BF36M40	M40	36	36,0	13,5	52	111,5	20
M8*BF48M50	M50	48	45,0	14,5	64	131,6	10
M8*BF48M63	M63	48	47,8	14,5	64	136,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)

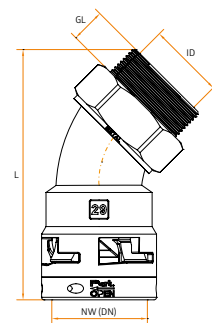
Passendes Zubehör
Suitable accessories



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
M8*BF10P09	PG9	10	10,0	11,0	20	63,0	50
M8*BF12P11	PG11	12	12,0	11,0	24	68,2	50
M8*BF17P13	PG13,5	17	16,2	12,0	28	74,8	50
M8*BF17P16	PG16	17	16,4	12,0	28	75,9	50
M8*BF23P21	PG21	23	21,7	12,0	35	89,6	30
M8*BF29P29	PG29	29	29,1	13,5	42	99,0	20
M8*BF36P36	PG36	36	36,0	13,5	52	114,3	20
M8*BF48P48	PG48	48	47,8	14,5	64	135,0	10

Technische Zeichnung
Engineering drawing



Wellrohr-Flansanschluss

TYP FF

Material: Polyamid 6
Ausführung: Bogen 45°
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

6GFF/8GFF: Grau RAL 7001
6BFF/8BFF: Schwarz RAL 9005

Conduit-Flange

TYPE FF

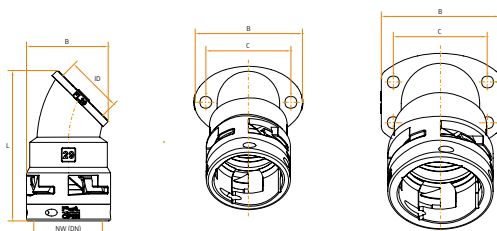
Material: Polyamide 6
Design: 45° elbow
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
 short-term +150°C

6GFF/8GFF: grey RAL 7001
6BFF/8BFF: black RAL 9005



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NW DN	ID mm	B mm	C mm	SW mm	L mm	VPE Stk. Unit pcs.
6'FF17	8'FF17	17	16,4	40,0	29,5	20	60,0	50
6'FF23	8'FF23	23	21,7	53,0	40,0	26	75,0	30
6'FF29	8'FF29	29	29,1	58,5	46,0	32	81,4	20
6'FF36	8'FF36	36	36,0	64,0	51,0	40	97,3	20
6'FF48	8'FF48	48	47,8	78,0	64,0	55	115,0	10

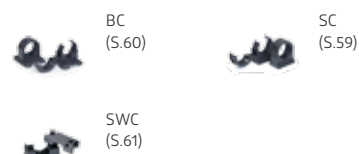
Technische Zeichnung
 Engineering drawing



Geeignet für Schläuche des Typs
 Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
 All corrugated conduits according
 to DN (p.28-39)

Passendes Zubehör
 Suitable accessories



Wellrohr-Flansanschluss

TYP FL

Material: Polyamid 6
Ausführung: Bogen 90°
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

6GFL/8GFL: Grau RAL 7001
6BFL/8BFL: Schwarz RAL 9005

Conduit-Flange

TYPE FL

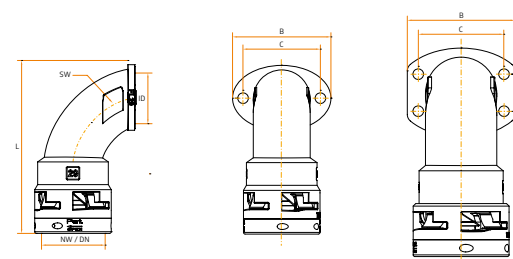
Material: Polyamide 6
Design: 90° elbow
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
 short-term +150°C

6GFL/8GFL: grey RAL 7001
6BFL/8BFL: black RAL 9005



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NW DN	ID mm	B mm	C mm	SW mm	L mm	VPE Stk. Unit pcs.
6'FL17	8'FL17	17	16,4	40,0	29,5	20	74,5	50
6'FL23	8'FL23	23	21,7	53,0	40,0	26	89,5	30
6'FL29	8'FL29	29	29,1	58,5	46,0	32	100,3	20
6'FL36	8'FL36	36	36,0	64,0	51,0	40	124,0	20
6'FL48	8'FL48	48	47,8	78,0	64,0	55	141,4	10

Technische Zeichnung
 Engineering drawing



Geeignet für Schläuche des Typs
 Suitable for conduit types

Alle Wellrohre nach NW (S.28-39)
 all corrugated conduits according
 to DN (p.28-39)

Passendes Zubehör
 Suitable accessories



Wellrohr-Verschraubung TYP SSV / SLIM LINE

Material: Polyamid 6
Ausführung: Gerade Verschraubung
Außengewinde, starr
Schutzart: IP65
Temperaturbereich: -40°C bis +110°C
kurzzeitig bis +150°C

Farbe:

Grau	RAL 7001
Schwarz	RAL 9005

Conduit-Fitting TYPE SSV / SLIM LINE

Material: Polyamid 6
Design: straight fitting
rigid - male thread
Protection rating: IP65
Temperature range: -40°C up to +110°C
short-term +150°C

Colour:

grey	RAL 7001
black	RAL 9005



GEWINDEART METRISCH

Art. Nr. IP65 Art. No. IP65 RAL9005	Art. Nr. IP65 Art. No. IP65 RAL7001	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6SSV07M10B	6SSV07M10G	M10	7,5	7,4	8,5	14	26,4	50
6SSV08M12B	6SSV08M12G	M12	8,5	8,3	9,5	16	28,0	50
6SSV10M12B	6SSV10M12G	M12	10	8,4	8,9	19	30,0	50
6SSV10M16B	6SSV10M16G	M16	10	11,0	9,3	19	29,2	50
6SSV12M16B	6SSV12M16G	M16	12	12,4	8,6	21	31,0	50
6SSV12M20B	6SSV12M20G	M20	12	16,0	13,0	27	39,2	50
6SSV17M20B	6SSV17M20G	M20	17	16,0	13,0	27	39,2	50
6SSV22M25B	6SSV22M25G	M25	22	20,5	14,3	36	43,5	50
6SSV23M25B	6SSV23M25G	M25	23	20,5	14,3	36	43,5	50
6SSV29M32B	6SSV29M32G	M32	29	26,6	14,2	40	46,3	25
6SSV37M40B	6SSV37M40G	M40	36	34,0	15,0	50	53,5	25
6SSV48M50B	6SSV48M50G	M50	48	42,5	15,5	65	58,2	10
6SSV48M63B	6SSV48M63G	M63	48	60,5	15,5	65	60,5	5

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-39)
All corrugated conduits according
to DN (p.28-39)



GEWINDEART PG

Art. Nr. IP65 Art. No. IP65 RAL9005	Art. Nr. IP65 Art. No. IP65 RAL7001	Gewinde Thread	NW DN	ID mm	GL mm	SW mm	L mm	VPE Stk. Unit pcs.
6SSV07P07B	6SSV07P07G	PG07	7,5	8,5	7,0	14	24,3	50
6SSV07P09B	6SSV07P09G	PG09	7,5	8,4	7,3	14	26,1	50
6SSV10P09B	6SSV10P09G	PG09	10	10,5	7,6	19	28,0	50
6SSV12P11B	6SSV12P11G	PG11	12	13,0	8,5	21	30,8	50
6SSV17P13B	6SSV17P13G	PG13,5	17	14,9	9,8	27	36,0	50
6SSV12P16B	6SSV12P16G	PG16	12	13,1	9,7	21	31,0	50
6SSV17P16B	6SSV17P16G	PG16	17	16,5	9,9	27	36,1	50
6SSV22P21B	6SSV22P21G	PG21	22	23,1	11,7	36	40,8	50
6SSV23P21B	6SSV23P21G	PG21	23	23,1	11,7	36	40,8	50
6SSV29P29B	6SSV29P29G	PG29	29	29,2	11,7	40	43,0	25
6SSV37P36B	6SSV37P36G	PG36	36	37,5	15,0	50	53,5	25
6SSV50P48B	6SSV50P48G	PG48	48	49,1	15,0	65	58,0	10

Weitere Verschraubungen auf Anfrage
Additional fittings on request



M-SSV



SSVI



M-SSVI



SSV-Kombi



SSV45



SSV90



M-SSV45



M-SSV90



SSVFL

Jumbo-Verschraubung

TYP JS - JE - JER

Material: Polyamid 6
Ausführung: Flanschanschluss
Schutzart: IP50 - IP65
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

Farbe: Grau RAL 7001
Schwarz RAL 9005

Jumbo-Fitting

TYPE JS - JE - JER

Material: Polyamide 6
Design: flange fitting
Protection rating: IP50 - IP65
Temperature range: -40°C up to +105°C
 short-term +150°C

Colour: grey RAL 7001
black RAL 9005

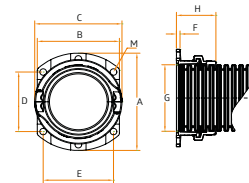


Art. Nr. JS	Art. Nr. JS	NW	A	B	C	D	E	F	G	H	M	VPE Stk.
Art. No. JS	Art. No. JS	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	Unit pcs.
RAL9005	RAL7001											
BJ556	GJS56	56	98,0	80,0	85,0	60,0	68,5	3,5	62,0	38,0	6,0	5
BJ570	GJS70	70	111,0	94,5	99,4	60,0	80,0	4,0	75,5	43,0	6,0	5
BJ595	GJS95	95	145,0	123,5	129,0	74,0	108,0	5,0	102,0	48,5	6,0	2

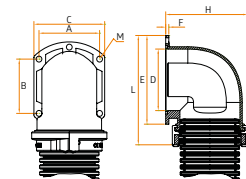
Art. Nr. JE	Art. Nr. JE	NW	A	B	C	D	E	F	H	L	M	VPE Stk.
Art. No. JE	Art. No. JE	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	Unit pcs.
RAL9005	RAL7001											
BJE56	GJE56	56	68,5	60,0	80,0	57,0	98,0	3,5	92,0	121,0	6,0	5
BJE70	GJE70	70	80,0	60,0	94,5	68,0	111,5	4,0	106,5	132,0	6,0	5
BJE95	GJE95	95	108,0	74,0	123,5	92,0	145,0	5,0	141,0	172,0	6,0	2

Art. Nr. JER	Art. Nr. JER	NW	A	B	C	D	E	F	G	H	L	M	VPE Stk.
Art. No. JER	Art. No. JER	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Unit pcs.
RAL9005	RAL7001												
BJER56	GJER56	56	68,5	60,0	80,0	94,0	57,0	98,0	3,5	97,7	121,0	6,0	5
BJER70	GJER70	70	84,0	62,0	94,5	108,0	68,0	111,5	4,0	112,0	132,0	6,0	5
BJER95	GJER95	95	110,0	78,0	123,5	145,0	92,0	145,0	5,0	147,7	172,0	6,0	2

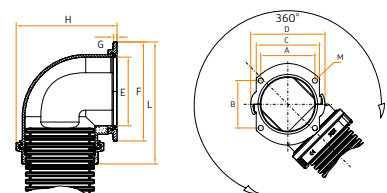
Technische Zeichnung JS (drehbar)
 Engineering drawing JS (swivelling)



Technische Zeichnung JE (starr)
 Engineering drawing JE (rigid)



Technische Zeichnung JER (drehbar)
 Engineering drawing JER (swiveling)



Jumbo-Dichtungen

TYP FSJ - ROHRSEITIG

TYP ORJ - FLANSCHSEITIG

Art. Nr. IP65	NW	IP	VPE Stk.
Art. No. IP65	DN	IP	Unit pcs.
FSJ56	56	IP65	10
FSJ70	70	IP65	10
FSJ95	95	IP65	10

Art. Nr. IP65	NW	IP	VPE Stk.
Art. No. IP65	DN	IP	Unit pcs.
ORJ56	56	IP65	10
ORJ70	70	IP65	10
ORJ95	95	IP65	10

Jumbo-Gaskets

TYPE FSJ - TUBE SIDED

TYPE ORJ - FLANGE SIDED



Y-Verteiler

TYP Y

Material: Polyamid 6
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

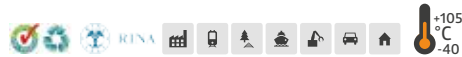
6GY / 8GY: Grau RAL 7001
6BY / 8BY: Schwarz RAL 9005

Y-Connector

TYPE Y

Material: Polyamid 6
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
 short-term +150°C

6GY / 8GY: grey RAL 7001
6BY / 8BY: black RAL 9005

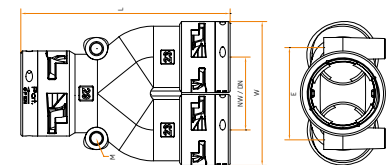


Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NW DN	L mm	W mm	E mm	VPE Stk. Unit pcs.
6*Y100707	8*Y100707	10-07-07	69,4	35,0	21,0	20
6*Y121010	8*Y121010	12-10-10	74,0	41,0	26,0	20
6*Y171212	8*Y171212	17-12-12	82,5	49,0	32,0	20
6*Y231717	8*Y231717	23-17-17	96,0	61,0	40,0	20
6*Y292323	8*Y292323	29-23-23	112,0	77,0	48,0	10
6*Y362929	8*Y362929	36-29-29	130,0	92,0	58,0	5
6*Y483636	8*Y483636	48-36-36	148,5	115,0	70,0	5

Geeignet für Schläuche des Typs
 Suitable for conduit types

Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according
 to DN (p.28-38)

Technische Zeichnung
 Engineering drawing



T-Verteiler

TYP T

Material: Polyamid 6
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

6GT / 8GT: Grau RAL 7001
6BT / 8BT: Schwarz RAL 9005

T-Connector

TYPE T

Material: Polyamid 6
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
 short-term +150°C

6GT / 8GT: grey RAL 7001
6BT / 8BT: black RAL 9005

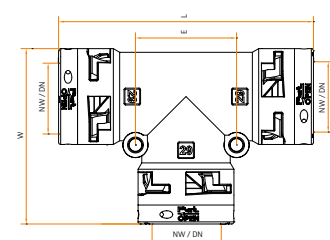


Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NW DN	L mm	W mm	E mm	VPE Stk. Unit pcs.
6*T101010	8*T101010	10-10-10	69,8	44,9	21,0	20
6*T121212	8*T121212	12-12-12	79,3	51,6	26,0	20
6*T171717	8*T171717	17-17-17	86,7	58,3	32,0	20
6*T232323	8*T232323	23-23-23	112,0	75,0	40,0	20
6*T292929	8*T292929	29-29-29	121,0	83,2	48,0	10
6*T363636	8*T363636	36-36-36	144,5	100,7	58,0	5
6*T484848	8*T484848	48-48-48	169,5	118,7	70,0	5

Geeignet für Schläuche des Typs
 Suitable for conduit types

Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according
 to DN (p.28-38)

Technische Zeichnung
 Engineering drawing



Wellrohr-Verbinder

TYP CS

Material: Polyamid 6
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

6GCS / 8GCS:	Grau	RAL 7001
6BCS / 8BCS:	Schwarz	RAL 9005

Conduit-Connector

TYPE CS

Material: Polyamid 6
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
 short-term +150°C

6GCS / 8GCS:	grey	RAL 7001
6BCS / 8BCS:	black	RAL 9005

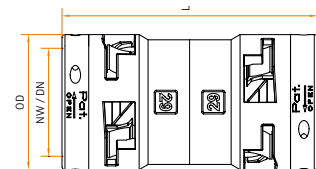


Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NW DN	L mm	OD mm	VPE Stk. Unit pcs.
6°CS1717	8°CS1717	17-17	65,7	30,0	50
6°CS2323	8°CS2323	23-23	84,0	38,0	30
6°CS2929	8°CS2929	29-29	86,0	45,5	20
6°CS3636	8°CS3636	36-36	102,0	57,0	20
6°CS4848	8°CS4848	48-48	115,0	68,0	10

Geeignet für Schläuche des Typs
 Suitable for conduit types

 Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according to DN (p.28-38)

Technische Zeichnung
 Engineering drawing



Reduzierung

TYP AD

Material: Polyamid 6
Schutzart: IP66 - IP68
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

Anwendung:
 Zur Reduzierung des Rohrdurchmessers (NW) direkt am Verbindungsanschluss der Verschraubung.

Farbe: Schwarz RAL9005

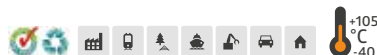
Reducer

TYPE AD

Material: Polyamid 6
Protection rating: IP66 - IP68
Temperature range: -40°C up to +105°C
 short-term +150°C

Applications:
 Corrugated conduit reducers allow reduction connections in combination with several diameters of conduits.

Colour: black RAL9005



Art. Nr. IP66 Art. No. IP66	Art. Nr. IP68 Art. No. IP68	NW A mm	NW B mm	L mm	VPE Stk. Unit pcs.
6BAD1007	8BAD1007	10	7	49,5	50
6BAD1210	8BAD1210	12	10	54,5	50
6BAD1710	8BAD1710	17	10	50,5	50
6BAD2310	8BAD2310	23	10	54,5	30
6BAD2910	8BAD2910	29	10	54,0	20
6BAD1712	8BAD1712	17	12	53,5	50
6BAD2312	8BAD2312	23	12	57,5	30
6BAD2912	8BAD2912	29	12	57,0	20
6BAD2317	8BAD2317	23	17	59,0	30
6BAD2917	8BAD2917	29	17	58,5	20
6BAD2923	8BAD2923	29	23	67,5	20
6BAD3623	8BAD3623	36	23	74,0	20
6BAD3629	8BAD3629	36	29	75,0	20
6BAD4829	8BAD4829	48	29	78,0	10
6BAD4836	8BAD4836	48	36	86,0	10

Geeignet für Schläuche des Typs
 Suitable for conduit types

 Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according to DN (p.28-38)

Rohrverbinder

TYP PC

Material: Polyamid 6,
Messing vernickelt

Schutzart: IP68

Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

Anwendung:
Für die Verbindung von Wellrohr mit STAPA-Rohr.

8GPC: Grau RAL 7001

8BPC: Schwarz RAL 9005

Pipe-Connector

TYPE PC

Material: Polyamide 6
nickel-plated brass

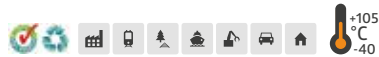
Protection rating: IP68

Temperature range: -40°C up to +105°C
short-term +150°C

Application:
For connection of corrugated Tube to rigid pipe.

8GPC: grey RAL 7001

8BPC: black RAL 9005



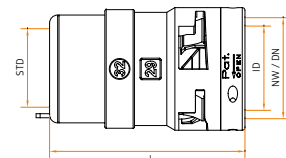
Art. Nr. IP68 Art. No. IP68	NW DN	Rohr STD Pipe STD	ID mm	L mm	VPE Stk. Unit pcs.
8*PC1216	12	16	14,0	60,6	50
8*PC1720	17	20	18,0	61,8	50
8*PC2325	23	25	22,5	72,0	30
8*PC2932	29	32	29,5	72,5	20
8*PC3640	36	40	37,5	86,0	20
8*PC4850	48	50	47,5	92,5	10

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-38)
All corrugated conduits according
to DN (p.28-38)

Technische Zeichnung
Engineering drawing



Wellrohrhalter

TYP SC

Material: Polyamid 6

Temperaturbereich: -40°C bis +105°C
kurzzeitig bis +150°C

Anwendung:
Wellrohrhalter für die direkte Montage oder in
Verbindung mit der SR-Halteschiene.

Farbe: Grau RAL 7001

Schwarz RAL 9005

Conduit-Clamp

TYPE SC

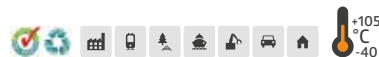
Material: Polyamide 6

Temperature range: -40°C up to +105°C
short-term +150°C

Application:
Corrugated conduit clamps to be fixed directly or
with holding-rail SR.

Colour: grey RAL 7001

black RAL 9005



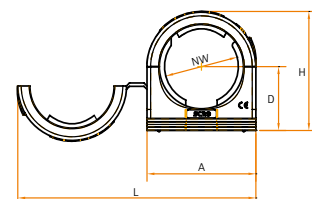
Art. Nr. Grau Art. No. Grey	Art. Nr. Schwarz Art. No. Black	NW DN	A mm	D mm	H mm	L mm	VPE Stk. Unit pcs.
GSC07	BSC07	7	17,0	13,1	21,8	40	100
GSC10	BSC10	10	21,0	15,0	25,7	48	100
GSC12	BSC12	12	24,0	16,4	28,6	54	100
GSC17	BSC17	17	30,0	19,7	34,9	68	100
GSC23	BSC23	23	38,0	23,3	42,5	84	100
GSC29	BSC29	29	45,0	26,4	49,0	98	50
GSC36	BSC36	36	55,0	30,2	58,0	118	50
GSC48	BSC48	48	67,5	36,3	70,3	143	30

Geeignet für Schläuche des Typs
Suitable for conduit types



Alle Wellrohre nach NW (S.28-38)
All corrugated conduits according
to DN (p.28-38)

Technische Zeichnung
Engineering drawing



Montageschiene

TYP SR

Material: Polyamid 6
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

Anwendung:

Halteschiene für die Montage in Verbindung mit dem Wellrohrhalter SC.
 LK - verriegelbare Abstandsstücke.

Farbe: Grau RAL 7001

Mounting Rail

TYPE SR

Material: Polyamide 6
Temperature range: -40°C up to +105°C
 short-term +150°C

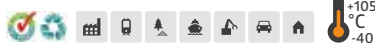
Applications:

Mounting rail for for fixing SC clamps.
 LK - locking distance spacers for mounting rail.

Colour: grey RAL 7001



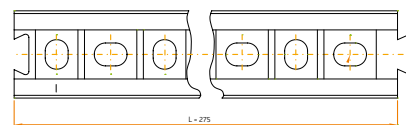
Art. Nr. Grau Art. No. grey	NW DN	L mm	VPE Stk. Unit pcs.	Art. Nr. Grau Art. No. grey	VPE Stk. Unit pcs.
SR	7 - 48	275	10	LK	20



Geeignet für Schläuche des Typs
 Suitable for conduit types

 Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according to DN (p.28-38)

Technische Zeichnung
 Engineering drawing



Wellrohrhalter

TYP BC

Material: Polyamid 6
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

Anwendung:

Wellrohrhalter mit Montageplatte.

Farbe: Grau RAL 7001
Schwarz RAL 9005

Conduit-Clamp

TYPE BC

Material: Polyamide 6
Temperature range: -40°C up to +105°C
 short-term +150°C

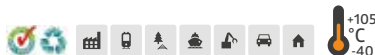
Applications:

Conduit clamps with an additional integrated mounting plate.

Colour: grey RAL 7001
black RAL 9005



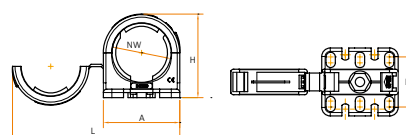
Art. Nr. Grau Art. No. Grey	Art. Nr. Schwarz Art. No. Black	NW DN	A mm	D mm	H mm	L mm	VPE Stk. Unit pcs.
GBC17	BBC17	17	37,5	27,0	35,0	71,8	100
GBC23	BBC23	23	38	28,5	42,5	84,0	50
GBC29	BBC29	29	45	29,5	49,0	98,5	50
GBC36	BBC36	36	55	49,5	58,0	118,0	30
GBC48	BBC48	48	67,5	49,5	70,0	143,0	30



Geeignet für Schläuche des Typs
 Suitable for conduit types

 Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according to DN (p.28-38)

Technische Zeichnung
 Engineering drawing



Wellrohrhalter

TYP SWC

Material: Polyamid 6
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

Anwendung:
 Wellrohrhalter stapelbar.

Farbe: Schwarz RAL 9005

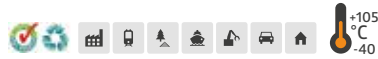
Conduit-Clamp

TYPE SWC

Material: Polyamide 6
Temperature range: -40°C up to +105°C
 short-term +150°C

Application:
 Conduit clamp, stackable

Colour: black RAL 9005

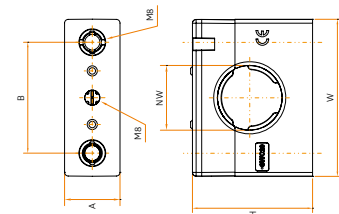


Art. Nr. Art. No.	NW DN	A mm	B mm	H mm	W mm	VPE Stk. Unit pcs.
BSWC17	17	30	45	50	70	30
BSWC23	23	30	45	50	70	30
BSWC29	29	30	60	65	85	20
BSWC36	36	30	60	65	85	20
BSWC48	50	30	90	92	115	10
BSWC56	56	30	90	92	115	10

Geeignet für Schläuche des Typs
 Suitable for conduit types

alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according
 to DN (p.28-38)

Technische Zeichnung
 Engineering drawing



Wellrohr-Endtülle

TYP CTS

Material: Polyamid 6
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

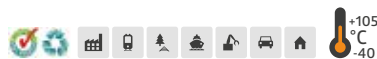
Farbe: Schwarz RAL 9005

Conduit-Sleeve

TYPE CTS

Material: Polyamide 6
Temperature range: -40°C up to +105°C
 short-term +150°C

Colour: black RAL 9005



Art. Nr. Art. No.	NW DN	ID mm	L mm	VPE Stk. Unit pcs.
BCTS07	7	4,0	15,4	100
BCTS10	10	6,9	15,4	100
BCTS12	12	9,5	18,4	100
BCTS17	17	12,9	20,4	100
BCTS23	23	19,2	21,4	50
BCTS29	29	24,7	22,4	50
BCTS36	36	32,8	24,4	30
BCTS48	48	44,3	25,4	20
BCTS56	56	53,5	26,4	10

Geeignet für Schläuche des Typs
 Suitable for conduit types

Alle Wellrohre nach NW (S.28-38)
 All corrugated conduits according
 to DN (p.28-38)

Teilbare Verschraubung TYP LCOV

Material: Polyamid 6
Ausführung: Gerade Verschraubung
 Außengewinde, starr
Schutzart: IP43
Temperaturbereich: -40°C bis +120°C
 kurzzeitig bis +140°C

Farbe: Schwarz RAL 9005

Splittable Fitting TYPE LCOV

Material: Polyamid 6
Design: straight fitting
 rigid - male thread
Protection rating: IP43
Temperature range: -40°C up to +120°C
 short-term +140°C

Colour: black RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	NW DN	SW mm	L mm	VPE Stk. Unit pcs.
LCOVM16	M16	10	19	34,0	100
LCOVM20	M20	14	27	41,0	100
LCOVM25	M25	20	30	43,0	50
LCOVM32	M32	23	36	50,5	50
LCOVM40	M40	37	46	59,0	25
LCOVM50	M50	45	55	67,5	25



GEWINDEART PG

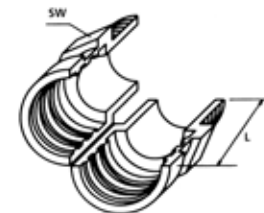
Art. Nr. Art. No.	Gewinde Thread	NW DN	SW mm	L mm	VPE Stk. Unit pcs.
LCOVPG9	PG09	10	19	27,0	100
LCOVPG13	PG13,5	14	24	34,0	100
LCOVPG21	PG21	20	32	34,0	50
LCOVPG2923	PG29	23	41	42,0	50
LCOVPG2937	PG29	37	50	50,0	25



Geeignet für Schläuche des Typs
 Suitable for conduit types

 Alle teilbaren Wellrohre nach NW (S.38)
 All splittable conduits according to DN (p.38)

Technische Zeichnung
 Engineering drawing



Teilbare Gegenmutter TYP LCOM

Material: Polyamid 6
Ausführung: Gegenmutter teilbar
Temperaturbereich: -40°C bis +120°C
 kurzzeitig bis +150°C

Farbe: Schwarz RAL 9005

Splittable Locknut TYPE LCOM

Material: Polyamid 6
Design: splittable
Temperature range: -40°C up to +120°C
 short-term +150°C

Colour: black RAL 9005



Art. Nr. Art. No.	Gewinde Thread	SW mm	VPE Stk. Unit pcs.
LCOM16	M16	19	100
LCOM20	M20	27	100
LCOM25	M25	30	50
LCOM32	M32	36	50
LCOM40	M40	46	25
LCOM50	M50	55	25



Technische Zeichnung
 Engineering drawing



Y & T Verteiler

TYP Y - T / SLIM LINE

Material: Polyamid 6
Temperaturbereich: -40°C bis +105°C
 kurzzeitig bis +150°C

Farbe: Schwarz RAL 9005

Y and T Connector

TYPE Y - T / SLIM LINE

Material: Polyamide 6
Temperature range: -40°C up to +105°C
 short-term +150°C

Colour: black RAL 9005



Art. Nr. Art. No.	NW DN	VPE Stk. Unit pcs.
Y757575	7,5 - 7,5 - 7,5	1000
Y108585	10 - 8,5 - 8,5	1000
Y108510	10 - 8,5 - 10	1000
Y101010	10 - 10 - 10	1000
Y131010	13 - 10 - 10	1000
Y137510	13 - 7,5 - 10	1000
Y138510	13 - 8,5 - 10	1000
Y131313	13 - 13 - 13	1000
Y171013	17 - 10 - 13	1000
Y171017	17 - 10 - 17	1000
Y171310	17 - 13 - 10	1000
Y222222	22 - 22 - 22	1000
Y171313	17 - 13 - 13	1000
Y171317	17 - 13 - 17	1000
Y171710	17 - 17 - 10	1000
Y178513	17 - 8,5 - 13	1000
Y227522	22 - 7,5 - 22	1000



Art. Nr. Art. No.	NW DN	VPE Stk. Unit pcs.
Y221017	22 - 10 - 17	1000
Y221022	22 - 10 - 22	1000
Y221317	22 - 13 - 17	1000
Y221322	22 - 13 - 22	1000
Y221717	22 - 17 - 17	1000
Y454545	4,5 - 4,5 - 4,5	1000
Y171717	17 - 17 - 17	1000
Y858585	8,5 - 8,5 - 8,5	1000
Y262217	26 - 22 - 17	1000
Y131013	13 - 10 - 13	1000
Y754545	7,5 - 4,5 - 4,5	1000
Y754575	7,5 - 4,5 - 7,5	1000
Y261026	26 - 10 - 26	1000

Geeignet für Schläuche des Typs
 Suitable for conduit types



Alle Wellrohre nach NW (S.28-39)
 All corrugated conduits according
 to DN (p.28-39)



Art. Nr. Art. No.	NW DN	VPE Stk. Unit pcs.
T454545	4,5 - 4,5 - 4,5	1000
T754545	7,5 - 4,5 - 4,5	1000
T754575	7,5 - 4,5 - 7,5	1000
T757545	7,5 - 7,5 - 4,5	1000
T757575	7,5 - 7,5 - 7,5	1000
T858585	8,5 - 8,5 - 8,5	1000
T104545	10 - 4,5 - 4,5	1000
T104575	10 - 4,5 - 7,5	1000
T104510	10 - 4,5 - 10	1000
T107545	10 - 7,5 - 4,5	1000
T107575	10 - 7,5 - 7,5	1000
T107510	10 - 7,5 - 10	1000
T108585	10 - 8,5 - 8,5	1000
T108510	10 - 8,5 - 10	1000
T101045	10 - 10 - 4,5	1000
T101075	10 - 10 - 7,5	1000
T101085	10 - 10 - 8,5	1000
T101010	10 - 10 - 10	1000
T101310	10 - 13 - 10	1000
T134575	13 - 4,5 - 7,5	1000
T134510	13 - 4,5 - 10	1000
T134513	13 - 4,5 - 13	1000
T137575	13 - 7,5 - 7,5	1000
T137510	13 - 7,5 - 10	1000
T137513	13 - 7,5 - 13	1000
T138585	13 - 8,5 - 8,5	1000
T138510	13 - 8,5 - 10	1000
T138513	13 - 8,5 - 13	1000
T131045	13 - 10 - 4,5	1000
T131075	13 - 10 - 7,5	1000



Art. Nr. Art. No.	NW DN	VPE Stk. Unit pcs.
T131010	13 - 10 - 10	1000
T131013	13 - 10 - 13	1000
T131310	13 - 10 - 10	1000
T131313	13 - 13 - 13	1000
T177513	17 - 7,5 - 13	1000
T177517	17 - 7,5 - 17	1000
T178517	17 - 8,5 - 17	1000
T171345	17 - 13 - 4,5	1000
T171310	17 - 13 - 10	1000
T171313	17 - 13 - 13	1000
T171710	17 - 17 - 10	1000
T171713	17 - 17 - 13	1000
T171717	17 - 17 - 17	1000
T191919	19 - 19 - 19	1000
T227517	22 - 7,5 - 17	1000
T227522	22 - 7,5 - 22	1000
T228522	22 - 8,5 - 22	1000
T221010	22 - 10 - 10	1000
T221017	22 - 10 - 17	1000
T221022	22 - 10 - 22	1000
T221317	22 - 13 - 17	1000
T221322	22 - 13 - 22	1000
T221713	22 - 17 - 13	1000
T221717	22 - 17 - 17	1000
T222217	22 - 22 - 17	1000
T222222	22 - 22 - 22	1000
T222622	22 - 26 - 22	1000
T261026	26 - 10 - 26	1000
T261326	26 - 13 - 26	1000
T261726	26 - 17 - 26	1000
T262626	26 - 26 - 26	1000

PVC Schutzschläuche und Sonderschläuche für elektrische Kabel & Leitungen

	Typ	Grundschlauch	Ummantelung	Außenmantel	Flammschutz	Temperatur	Besondere Zulassungen	Seite
	GF	PVC	✗	✗	UL94 V0	-15°C bis +70°C	  	66
	GFT	PVC	✗	Stahlgeflecht	UL94 V0	-15°C bis +70°C	   	66
	GP	PVC	Hart-PVC-Spirale	✗	UL94 V0	-20°C bis +70°C		67
	GL	PVC	Hart-PVC-Spirale	✗	UL94 V0	-20°C bis +70°C	 	67
	GL18	PVC	Hart-PVC-Spirale	✗	UL94 V0	-10°C bis +60°C		68
	GLD12	PVC	Drahtspirale	✗	UL94 HB	-20°C bis +70°C kurzzeitig +80°C		68
	GLD12PU	Polyurethan	Drahtspirale	✗	UL94 V0	-40°C bis +90°C kurzzeitig +125°C		Auf Anfrage
	HJT	Silikon-Elastomer	✗	✗	UL94 V0	-60°C bis +260°C kurzzeitig +800°C		69
	PEHB	Polyester	✗	✗	UL94 HB	-50°C bis +150°C kurzzeitig +160°C		69
	PAHB	Polyamid	✗	✗	UL94 V0	-55°C bis +125°C kurzzeitig +150°C		69
	TR...CU	Kupfer	✗	✗	-	-65°C bis +150°C		70
	Spiralzip	Polypropylen	✗	✗	✗	-30°C bis +85°C kurzzeitig +95°C		71
	Spiralflex	Polyethylen	✗	✗	✗	-50°C bis +90°C kurzzeitig +100°C		71

Verschraubungen für elektrische Kabel & Leitungen

	Serie	Material	Schutzgrad	Gewindearten	Besondere Zulassungen	Seite
	UNI-VS	Polyamid	IP65	Metrisch / PG / Zoll		72
	GLM	PVC	IP67	Metrisch / PG / Zoll	  	73
	VS1202N	Polypropylen	IP54	Metrisch / PG		74
	VSH1205N	Polypropylen	IP54	✗		74
	GFMF	Messing vernickelt	IP67	Metrisch / PG / Zoll		75
	GFM	Messing vernickelt	IP67	Metrisch / PG / Zoll		76

PVC-Conduits and Special Conduits for Electric Cables and Conductors

	Type	Basic conduit	Cover	Outer cover	Flammability	Temperature	Special approvals	Page
	GF	PVC	✗	✗	UL94 V0	-15°C up to +70°C	 	66
	GFT	PVC	✗	Steel braid	UL94 V0	-15°C up to +70°C	  	66
	GP	PVC	Hard-PVC-spiral	✗	UL94 V0	-20°C up to +70°C		67
	GL	PVC	Hard-PVC-spiral	✗	UL94 V0	-20°C up to +70°C		67
	GL18	PVC	Hard-PVC-spiral	✗	UL94 V0	-10°C up to +60°C		68
	GLD12	PVC	Steel-spiral	✗	UL94 HB	-20°C up to +70°C short-term +80°C		68
	GLD12PU	Polyurethane	Steel-spiral	✗	UL94 V0	-40°C up to +90°C short-term +125°C		on request
	HJT	Silikon-Elastomere	✗	✗	UL94 V0	-60°C up to +260°C short-term +800°C + 1650°C		69
	PEHB	Polyester	✗	✗	UL94 HB	-50°C up to +150°C short-term +160°C		69
	PAHB	Polyamide	✗	✗	UL94 V0	-55°C up to +125°C short-term +150°C		69
	TR...CU	Copper	✗	✗	✗	-65°C up to +150°C		70
	Spiralzip	Polypropylene	✗	✗	✗	-30°C up to +85°C short-term +95°C		71
	Spiralflex	Polyethylene	✗	✗	✗	-50°C up to +90°C short-term +100°C		71

Fittings for Electric Cables and Conductors

	Series	Material	Protection rating	Thread	Special approvals	Page
	UNI-VS	Polyamide	IP65	Metric / PG / GAS		72
	GLM	PVC	IP67	Metric / PG / GAS	 	73
	VS1202N	Polypropylene	IP54	Metric / PG		74
	VSH1205N	Polypropylene	IP54	✗		74
	GFMF	Nickel-plated brass	IP67	Metric / PG / GAS		75
	GFM	Nickel-plated brass	IP67	Metric / PG / GAS		76

PVC-Schutzschlauch

TYP GF

Material: PVC
Schutzart: IP68
Temperaturbereich: -15°C bis +70°C
Brennbarkeit: UL94 V0

Konstruktion:
 Flexibler PVC-Schlauch, innen und außen glatt.

Einsatzbereiche:
 Maschinen- und Anlagenbau, Fahrzeugbau,
 Automation, Elektroanlagen.
 Hohe Alterungs- und Ölbeständigkeit.

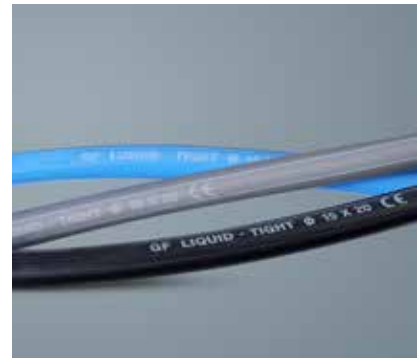
Protective PVC Conduit

TYPE GF

Material: PVC
Protection rating: IP68
Temperature range: -15°C up to +70°C
Flammability: UL94 V0

Construction:
 Flexible PVC-conduit, smooth inside and outside.

Applications:
 Machine and plant constructions, automotive,
 automation, electrical installations,
 good resistance against oil and aging.



Art. Nr. Schwarz Art. No. black RAL9011	Art. Nr. Grau Art. No. grey RAL7001	Art. Nr. Blau Art. No. blue RAL5015	NW DN	ID mm	AD mm OD mm	VPE Unit
GF10N	GF10G	GF10B	10	10,0	14,0	50m
GF12N	GF12G	GF12B	12	12,0	16,0	50m
GF15N	GF15G	GF15B	15	15,0	20,5	50m
GF20N	GF20G	GF20B	20	20,0	26,0	50m
GF27N	GF27G	GF27B	27	27,0	34,0	25m
GF36N	GF36G	GF36B	36	36,0	43,0	25m
GF40N	GF40G	GF40B	40	40,0	48,0	25m
GF47N	GF47G	GF47B	47	47,0	55,0	25m
-	-	GF58B	58	58,0	68,0	25m



Passende Verschraubungen Suitable fittings



PVC-Schutzschlauch

TYP GFT / EMV

Material: PVC
 verzinktes Stahlgeflecht
Schutzart: IP68
Temperaturbereich: -15°C bis +70°C
Brennbarkeit: UL94 V0

Konstruktion:
 Flexibler PVC-Schlauch, innen und außen glatt mit
 Drahtumflechtung.

Einsatzbereiche:
 Maschinen- und Anlagenbau, Fahrzeugbau,
 Automation, Elektroanlagen. EMV-Anwendungen.

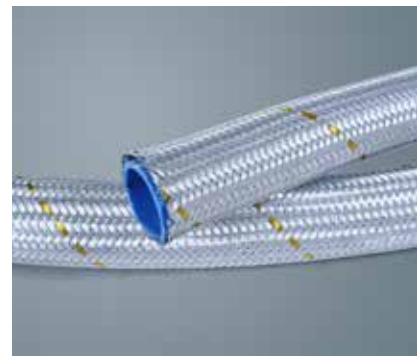
Protective PVC Conduit

TYPE GFT / EMC

Material: PVC
 galvanised steel braid
Protection rating: IP68
Temperature range: -15°C up to +70°C
Flammability: UL94 V0

Construction:
 Flexible PVC-conduit, smooth inside and outside
 with galvanised steel braid.

Applications:
 Machine and plant constructions, automotive,
 automation, electrical installations.
 EMC-applications.



einsetzbar
applicable

Art. Nr. Art. No.	NW DN	ID mm	AD mm OD mm	VPE Unit
GFT10	10	10,0	15,0	50m
GFT12	12	12,0	17,0	50m
GFT15	15	15,0	21,0	50m
GFT20	20	20,0	27,0	50m
GFT27	27	27,0	35,0	25m
GFT36	36	36,0	45,0	25m
GFT40	40	40,0	50,0	25m
GFT47	47	47,0	57,0	25m
GFT58	58	58,0	70,0	25m



Passende Verschraubungen Suitable fittings



PVC-Schutzschlauch

TYP GP

Material: PVC
Schutzart: IP68
Temperaturbereich: -20°C bis +70°C
Brennbarkeit: UL94 V0

Konstruktion:

Flexibler PVC-Schlauch, mit einer eingebetteten Hart-PVC Spirale, innen und außen glatt.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Automation, Elektroanlagen, tritt und Knickfest, gute Ölbeständigkeit.

Protective PVC Conduit

TYPE GP

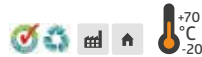
Material: PVC
Protection rating: IP68
Temperature range: -20°C up to +70°C
Flammability: UL94 V0

Construction:

Flexible PVC-conduit with embedded hard PVC spiral, smooth inside and outside.

Application:

Machine and plant constructions, automotive, automation, electrical installations, crush and buckling resistant, good resistance to oil.



Art. Nr. Schwarz Art. No. black RAL9011	Art. Nr. Grau Art. No. grey RAL 7001	Art. Nr. Lichtgrau Art. No. light grey RAL 7035	NW DN	ID mm	AD mm OD mm	VPE Unit
GP10N	GP10	GP10G	10	10,0	14,0	30m
GP12N	GP12	GP12G	12	12,0	16,0	30m
GP14N	GP14	GP14G	14	14,0	18,6	30m
GP16N	GP16	GP16G	16	16,0	20,6	30m
GP20N	GP20	GP20G	20	20,0	25,0	30m
GP22N	GP22	GP22G	22	22,0	27,2	30m
GP25N	GP25	GP25G	25	25,0	30,2	30m
GP28N	GP28	GP28G	28	28,0	33,5	30m
GP35N	GP35	GP35G	35	35,0	41,3	30m
GP40N	GP40	GP40G	40	40,0	46,0	30m
GP50N	GP50	GP50G	50	50,0	56,2	30m

Passende Verschraubungen

Suitable fittings



GLM
(S.73)



UNI-VS
(S.72)

PVC-Schutzschlauch

TYP GL

Material: PVC
Schutzart: IP68
Temperaturbereich: -20°C bis +70°C
Brennbarkeit: UL94 V0

Konstruktion:

Flexibler PVC-Schlauch, mit einer eingebetteten Hart-PVC Spirale, innen glatt.

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau, Automation, Elektroanlagen.

Protective PVC Conduit

TYPE GL

Material: PVC
Protection rating: IP68
Temperature range: -20°C up to +70°C
Flammability: UL94 V0

Construction:

Flexible PVC-conduit with embedded hard PVC spiral, smooth inside.

Applications:

Machine and plant constructions, automotive, automation, electrical installations.



Art. Nr. Schwarz Art. No. black RAL9011	Art. Nr. Lichtgrau Art. No. light grey RAL 7035	NW DN	ID mm	AD mm OD mm	VPE Unit
GL08N	GL08G	8	8,0	12,1	30m
GL10N	GL10G	10	10,0	14,7	30m
GL12N	GL12G	12	12,0	16,4	30m
GL14N	GL14G	14	14,0	18,9	30m
GL16N	GL16G	16	16,0	20,7	30m
GL18N	GL18G	18	18,0	22,7	30m
GL20N	GL20G	20	20,0	24,7	30m
GL22N	GL22G	22	22,0	27,7	30m
GL25N	GL25G	25	25,0	30,6	30m
GL28N	GL28G	28	28,0	33,5	30m
GL32N	GL32G	32	32,0	38,0	30m
GL35N	GL35G	35	35,0	41,0	30m
GL40N	GL40G	40	40,0	46,4	30m
GL50N	GL50G	50	50,0	57,2	30m
GL60N	GL60G	60	60,0	68,0	30m

Passende Verschraubungen

Suitable fittings



GLM
(S.73)



UNI-VS
(S.72)

PVC-Schutzschlauch TYP GL18

Material: PVC
Schutzart: IP68
Temperaturbereich: -10°C bis +60°C

Konstruktion:
Flexibler PVC-Schlauch,
mit einer Hart-PVC-Spirale. Innen glatt.

Einsatzbereiche:
Maschinen- und Anlagenbau, Fahrzeugbau,
Automation, Elektroanlagen.

Protective PVC Conduit TYPE GL18

Material: PVC
Protection rating: IP68
Temperature range: -10°C up to +60°C

Construction:
Flexible PVC-conduit
with hard PVC spiral, smooth inside.

Applications:
Machine and plant constructions, automotive,
automation, electrical installations.



Auf Anfrage:
bis 200 mm Durchmesser
lieferbar

On request:
up to 200 mm inside
diameter available



Art. Nr. Grau Art. No. grey RAL 7001	NW DN	ID mm	AD mm OD mm	VPE Unit
GL1810G	10	10,0	14,0	50m
GL1813G	13	13,0	17,0	50m
GL1815G	15	15,0	19,4	50m
GL1816G	16	16,0	20,0	50m
GL1819G	19	19,0	23,0	50m
GL1820G	20	20,0	24,0	50m
GL1822G	22	22,0	27,0	50m
GL1825G	25	25,0	30,0	50m
GL1830G	30	30,0	35,0	25m
GL1832G	32	32,0	37,0	25m
GL1835G	35	35,0	40,0	25m
GL1838G	38	38,0	43,0	25m
GL1840G	40	40,0	45,0	25m
GL1845G	45	45,0	50,0	25m
GL1850G	50	50,0	55,0	25m

Passende Verschraubungen Suitable fittings



PVC-Schutzschlauch TYP GLD12

Material: PVC
Federstahldrahtwendel
Schutzart: IP68
Temperaturbereich: -20°C bis +70°C

Konstruktion:
Flexibler PVC-Schlauch mit
kunststoffummanteltem Federstahldrahtwendel.

Einsatzbereiche:
Maschinen- und Anlagenbau, Fahrzeugbau,
Automation, Elektroanlagen, als Saugschlauch
geeignet.

Protective PVC Conduit TYPE GLD12

Material: PVC
Spring steel wire
Protection rating: IP68
Temperature range: -20°C up to +70°C

Construction:
Flexible PVC-conduit with PVC-sheathing,
spring steel wire.

Applications:
Machine and plant constructions, automotive,
automation, electrical installations, suitable as
suction conduit.



! Federstahldrahtwendel
Spring steel wire



Art. Nr. Grau Art. No. grey RAL 7001	NW DN	ID mm	AD mm OD mm	VPE Unit
GLD1207G / -10	7	7,0	10,0	50m / 10m
GLD1210G / -10	10	10,0	14,0	50m / 10m
GLD1213G / -10	13	13,0	17,0	50m / 10m
GLD1215G / -10	15	15,0	19,0	50m / 10m
GLD1216G / -10	16	16,0	21,0	50m / 10m
GLD1221G / -10	21	21,0	27,0	50m / 10m
GLD1230G / -10	30	30,0	36,0	25m / 10m
GLD1238G / -10	38	38,0	45,0	25m / 10m
GLD1244G / -10	44	44,0	52,0	25m / 10m
GLD1248G / -10	48	48,0	56,0	25m / 10m

Passende Verschraubungen Suitable fittings



Hitzeschutzschlauch

TYP HJT

Material: Silikon, Glasfaser
Temperaturbereich: Dauertemp. +300° C
 Kurzzeitig bis +800° C
 Metallspritzer bis 1650° C
Farbe: Rot

Anwendung:

Schutz von Leitungen, Kabeln und Schläuchen, Schutz gegen hohe Strahlungswärme und kurzzeitige Flammeinwirkung, heiße Medien perlen von der Oberfläche ab, sodass sich keine Verkrustungen bilden.

High Temp. Conduit

TYPE HJT

Material: Silicone, fibre glass
Temperature range: +300° C
 short-term +800° C
 metal-splash up to +1650° C
Colour: red

Applications:

Protection of cables, conductors and conduits, protection against radiation heat and short exposure of flames, hot fluids roll off the surface so that no incrustation are being formed.



Art. Nr. Art. No.	Schlauch Conduit NW	VPE Unit
HJT10	10	40m
HJT15	15	40m
HJT20	20	40m
HJT22	22	40m
HJT25	25	40m
HJT30	30	40m
HJT35	35	40m
HJT40	40	40m
HJT50	50	25m
HJT60	60	25m
HJT75	75	25m
HJT100	100	25m



Passende Verschraubungen Suitable fittings

 CM Serie (S.21-27)
CM Series (S.21-27)

 GFM / GFF
(S.76)

Passendes Zubehör Suitable accessories

 EESO (S.26)  BCM (S.26)

 VCM (S.26)

Kunststoff-Geflecht

TYP PA / PAHB

Material: Polyamid (PAHB)
 Polyester (PEHB)
Temperaturbereich: PAHB -55°C bis +125°C
 PEHB -50°C bis +150°C
Höchsttemperatur: PEHB +170°C
Schmelztemperatur: PEHB +250°C
Farbe: schwarz, grau

Anwendung:

Zum Bündeln von Leitungen, für Umgebungen, in denen wenig Platz zur Verfügung steht, mechanischer Schutz, leicht, flexibel, reißfest, aufdehnbar bis ca. 50% der Nennweite.

Plastic Braid

TYPE PA / PEHB

Material: Polyamid (PAHB)
 Polyester (PEHB)
Temperature range: PAHB -55°C bis +125°C
 PEHB -50°C bis +150°C
Max. temperature: PEHB +170°C
Melting temperature: PEHB +250°C
Colour: black, grey

Applications:

For bundling of conductors, in places where space is limited, mechanical protection, light, flexible, tearproof, the conduit can be widened approx. 50% of the inside diameter.



Art. Nr. Schwarz Art. No. black PA	Art. Nr. Grau Art. No. grey PA	NW mm DN mm	Anwendungsbereich application range	VE/m. PU/M
			min. max.	
PAHB05N	PAHB05G	5,0	4 mm 10 mm	100
PAHB08N	PAHB08G	8,0	6 mm 11 mm	100
PAHB10N	PAHB10G	10,0	8 mm 14 mm	100
PAHB12N	PAHB12G	12,0	10 mm 16 mm	100
PAHB14N	PAHB14G	14,0	10 mm 22 mm	100
PAHB16N	PAHB16G	16,0	14 mm 24 mm	100
PAHB18N	PAHB18G	18,0	16 mm 24 mm	100
PAHB20N	PAHB20G	20,0	18 mm 25 mm	100
PAHB25N	PAHB25G	25,0	18 mm 33 mm	100
PAHB30N	PAHB30G	30,0	28 mm 40 mm	100
PAHB40N	PAHB40G	40,0	28 mm 42 mm	50
PAHB50N	PAHB50G	50,0	35 mm 80 mm	50
PAHB65N	PAHB65G	65,0	40 mm 86 mm	50
PAHB70N	PAHB70G	70,0	45 mm 87 mm	50



Art. Nr. Schwarz Art. No. black Polyester	Art. Nr. Grau Art. No. grey Polyester	NWmm DN mm	Anwendungsbereich application range	VE/St. PU/pcs.
			min. max.	
PEHB03N	PEHB03G	3	2 mm 7 mm	100
PEHB04N	PEHB04G	4	2 mm 7 mm	100
PEHB05N	PEHB05G	5	4 mm 11 mm	100
PEHB06N	PEHB06G	6	4 mm 11 mm	100
PEHB08N	PEHB08G	8	5 mm 12 mm	100
PEHB10N	PEHB10G	10	7 mm 15 mm	100
PEHB12N	PEHB12G	12	8 mm 17 mm	50
PEHB16N	PEHB16G	16	10 mm 20 mm	50
PEHB20N	PEHB20G	20	14 mm 26 mm	50
PEHB25N	PEHB25G	25	18 mm 34 mm	50
PEHB30N	PEHB30G	30	20 mm 40 mm	25
PEHB40N	PEHB40G	40	30 mm 40 mm	25
PEHB50N	PEHB50G	50	40 mm 60 mm	25



Auch mit Beschichtung zum Kaltschneiden erhältlich. Auch in hitzestabiler Ausführung (bis +180°C) erhältlich.

Also available with coating for cold cutting. Heat-resistant version (up to +180°C) on request.

Kupfer-Geflechtschlauch TYP TR..CU

Material: Kupfergeflecht verzinkt
Temperaturbereich: -65°C bis +150°C

Einsatzbereiche:

Maschinen- und Anlagenbau, Fahrzeugbau,
Schiffsbau, Automation, Elektroanlagen.
EMV-Anwendungen.

Mechanischer Schutz für Kabel und
Leitungen, schlagfest, flexibel.

Copper Braid TYPE TR..CU

Material: tin-plated copper braid
Temperature range: -65°C up to +150°C

Applications:

Machine and plant constructions, automotive,
shipbuilding, automation, electrical installations.
EMC applications.

Mechanical protection for cables and
conductors, flexible.



einsetzbar
applicable



Art. Nr. Art. No.	NW DN	min-max mm	VPE Unit
TR06CU	6	4,5 - 7,0	100
TR10CU	10	7,0 - 12,0	100
TR12CU	12,5	10,0 - 15,0	50
TR16CU	15	13,0 - 18,0	50
TR20CU	20	16,0 - 25,0	50
TR25CU	25	22,0 - 30,0	50
TR30CU	30	27,0 - 35,0	25
TR35CU	35	30,0 - 38,0	25
TR40CU	40	35,0 - 44,0	25
TR50CU	50	45,0 - 55,0	25

Passende Verschraubungen

Suitable fittings

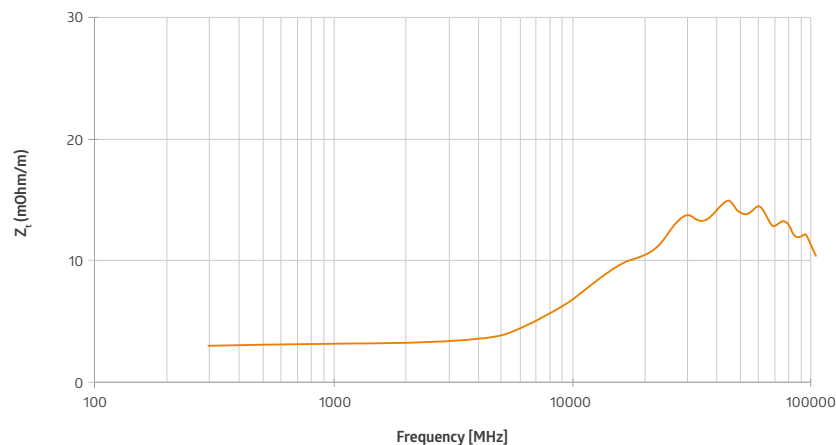
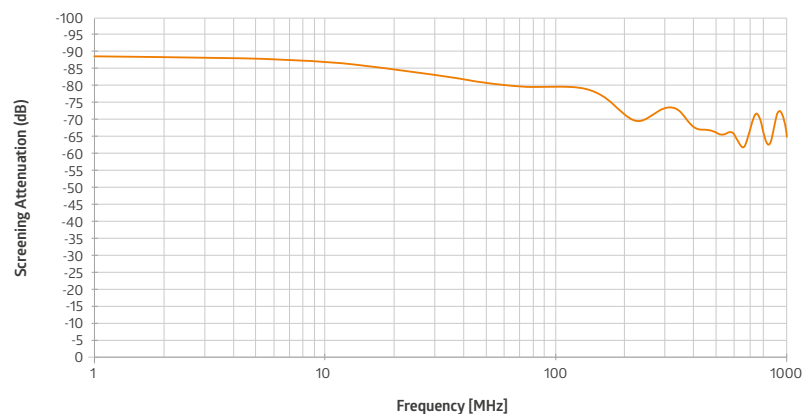


M...SMEMC (auf Anfrage)
M...SMEMC (on request)



EMCA (auf Anfrage)
EMCA (on request)

Schirmdämpfung
Screening attenuation



ZIP-Schlauch

TYP SPIRALZIP

Material: Polypropylen PP
Temperatur: -30° bis +85°C
 kurzzeitig + 95°C
Farbe: schwarz

Einsatzbereiche:

Für feste und mobile Elektroinstallationen, schützt Kabelbündel, Abzweigmöglichkeit, verhindert Kabelverwicklungen und Unfallrisiken, leicht entfernbar und wiederverwendbar, zur nachträglichen Installation, sehr flexibel und ohne Materialermüdung.

ZIP-Conduit

TYPE SPIRALZIP

Material: Polypropylene
Temperature: -30°C up to +85°C
 short-term +95°C
Colour: black

Applications:

For permanent or mobile installations, protection of cable bundles, can be branched, keeps cables at their place and prevents accidents, can be removed easily, reusable, for retrofit installations, highly flexible, no material fatigue.



Montagewerkzeug in jeder VPE inklusive
 Mounting-tool included in each unit



Art. Nr. Art. No.	Nominal mm	Wandung For cable mm	Bündelbereich AF mm	VPE Unit
Spiralzip08	8	0,8	10	100
Spiralzip15	15	0,8	16	50
Spiralzip20	20	0,9	23	30
Spiralzip25	25	1,0	25	20
Spiralzip32	32	1,3	32	15

Spiralschlauch

TYP SPIRALFLEX

Material: Polyethylen
Temperatur: -50°C bis +90°C
 kurzzeitig 100°C
Farbe: schwarz, natur

Einsatzbereiche:

Wird zum Bündeln von Kabeln und Leitungen verwendet. Durch den durchlaufenden Spiralschnitt ist die Abzweigung an jedem beliebigen Punkt möglich.

Wrapping Hose

TYPE SPIRALFLEX

Material: Polyethylene
Temperature: -50°C up to +90°C
 short-term +100°C
Colour: black, nature

Applications:

For the bundling of cables and conductors. By the continuous cut junctions are possible at any place.



Art. Nr. Schwarz Art. No. black	Art. Nr. Natur Art. No. nature	Bündelbereich AF mm	VPE Unit
Spiralflex10B	Spiralflex10T	2 – 10	50
Spiralflex18B	Spiralflex18T	4 – 18	25
Spiralflex30B	Spiralflex30T	7 – 30	25
Spiralflex50B	Spiralflex50T	12 – 50	25
Spiralflex70B	Spiralflex70T	13 – 70	25
Spiralflex100B	Spiralflex100T	15 – 100	25
Spiralflex150B	Spiralflex150T	20 – 150	25

Schlauchverschraubung TYP UNI-VS

Material: Polyamid 6
Ausführung: starres Aussengewinde
Schutzart: IP65
Brennbarkeit: UL94 V0
Temperaturbereich: -20°C bis +80°C

UNIVS:	Grau	RAL 7001
UNIVSG:	Hellgrau	RAL 7035
UNIVSB:	Schwarz	RAL 9005

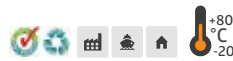
Conduit Fitting TYPE UNI-VS

Material: Polyamide 6
Design: rigid male thread
Protection rating: IP65
Flammability: UL94 V0
Temperature range: -20°C up to +80°C

UNIVS:	grey	RAL 7001
UNIVSG:	light grey	RAL 7035
UNIVSB:	black	RAL 9005



! Starre Ausführung
Rigid design



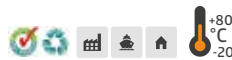
GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
UNIVS*08M12	M12	8	24	25	10	6,0	100
UNIVS*10M16	M16	10	24	25	10	8,0	75
UNIVS*12M16	M16	12	26	28	12	10,0	75
UNIVS*12M20	M20	12	26	28	12	10,0	75
UNIVS*16M20	M20	16	31	34	13	13,0	30
UNIVS*21M25	M25	20 / 21	36	40	14	18,0	50
UNIVS*25M32	M32	25	42	45	15	23,0	25
UNIVS*27M32	M32	27 / 28	45	48	15	24,0	15
UNIVS*32M32	M32	32	51	56	15	27,0	10
UNIVS*35M40	M40	35	54	60	15	30,0	10
UNIVS*40M40	M40	40	61	67	15	34,0	10
UNIVS*44M50	M50	44	66	72	15	39,0	8
UNIVS*50M50	M50	50	73	80	20	45,5	5

Geeignet für Schläuche des Typs
Suitable for conduit types

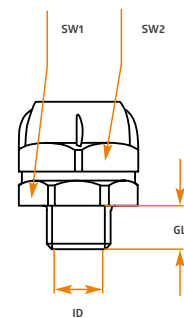


Technische Zeichnung
Engineering drawing



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
UNIVS*08PG07	PG07	8	24	25	10	6,0	100
UNIVS*10PG09	PG09	10	24	25	10	8,0	75
UNIVS*12PG11	PG11	12	26	28	12	10,0	75
UNIVS*12PG13	PG13,5	12	26	28	13	10,0	75
UNIVS*16PG13	PG13,5	16	31	34	13	13,0	50
UNIVS*16PG16	PG16	16	31	34	13	13,0	50
UNIVS*21PG21	PG21	20 / 21	36	40	14	18,0	50
UNIVS*27PG29	PG29	27 / 28	45	48	15	24,0	25
UNIVS*35PG36	PG36	35	54	60	15	30,0	25



Schlauchverschraubung TYP GLM

Material: Polyamid
Ausführung: drehbares Aussengewinde
Schutzart: IP67
Brennbarkeit: UL94 V0
Temperaturbereich: -20°C bis +80°C

GLM: Grau RAL 7001
GLMG: Hellgrau RAL 7035
GLMN: Schwarz RAL 9005

Conduit Fitting TYPE GLM

Material: Polyamide
Design: swivelling male thread
Protection rating: IP67
Flammability: UL94 V0
Temperature range: -20°C up to +80°C

GLM: grey RAL 7001
GLMG: light grey RAL 7035
GLMN: black RAL 9005



Auf Anfrage:
mit Zollgewinde lieferbar

On request:
with GAS thread available



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
GLM*10M12	M12	10	22	11,0	8	50
GLM*12M16	M16	12	24	11,0	10	50
GLM*16M20	M20	16	29	13,5	13	50
GLM*20M25	M25	20	33	13,5	18	50
GLM*22M25	M25	22	36	13,5	20	50
GLM*25M32	M32	25	40	17,0	23	25
GLM*28M32	M32	28	43	17,0	25	25
GLM*32M40	M40	32	48	18,0	30	25
GLM*35M40	M40	35	52	18,0	33	20
GLM*40M50	M50	40	58	19,0	38	15
GLM*50M63	M63	50	70	19,5	48	10

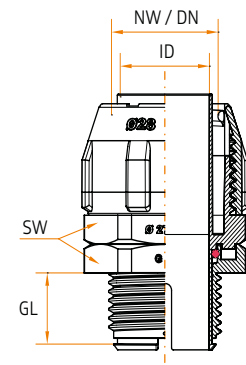
Geeignet für Schläuche des Typs
Suitable for conduit types



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
GLM*08PG07	PG07	8	19	11,0	6	50
GLM*10PG07	PG07	10	22	11,0	8	50
GLM*10PG09	PG09	10	22	11,0	8	50
GLM*10PG11	PG11	10	22	11,0	8	50
GLM*10PG13	PG13,5	10	22	11,0	8	50
GLM*12PG09	PG09	12	24	11,0	10	50
GLM*12PG11	PG11	12	24	11,0	10	50
GLM*12PG13	PG13,5	12	24	11,0	10	50
GLM*14PG11	PG11	14	27	13,5	12	50
GLM*14PG13	PG13,5	14	27	13,5	12	50
GLM*16PG13	PG13,5	15/16	29	13,5	13	50
GLM*16PG16	PG16	15/16	29	13,5	13	50
GLM*18PG16	PG16	18	33	13,5	16	50
GLM*20PG21	PG21	20	33	13,5	18	50
GLM*22PG21	PG21	22	36	13,5	20	50
GLM*25PG21	PG21	25	36/40	13,5	20	25
GLM*25PG29	PG29	25	40	17,0	23	25
GLM*28PG29	PG29	27/28	43	17,0	25	25
GLM*32PG29	PG29	32	48	18,0	30	25
GLM*35PG36	PG36	35/36	52	18,0	33	20
GLM*40PG36	PG36	40	58	19,0	38	15
GLM*50PG48	PG48	50	70	19,5	48	10

Technische Zeichnung
Engineering drawing

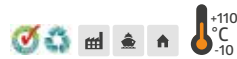


Schlauchverschraubung TYP VS1202N

Material: Polypropylen
Ausführung: drehbares Aussengewinde
Schutzart: IP54
Brennbarkeit: UL94 V0
Temperaturbereich: -10°C bis +110°C
Farbe: Grau RAL 7001

Conduit Fitting TYPE VS1202N

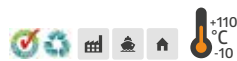
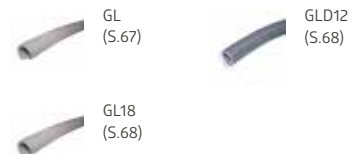
Material: Polypropylene
Design: swivelling male thread
Protection rating: IP54
Flammability: UL94 V0
Temperature range: -10°C up to +110°C
Colour: grey RAL 7001



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
VS1202N07M12	M12	7	17	7,5	5,5	50
VS1202N10M16	M16	10	20	8,5	8,8	50
VS1202N13M20	M20	13	24	9	11,1	50
VS1202N16M25	M25	16	30	10	14,8	50
VS1202N21M32	M32	21	36	11	19,4	25
VS1202N29M40	M40	29 / 30	46	12	27,9	25
VS1202N38M50	M50	38	55	13	35,6	25
VS1202N48M63	M63	48	65	13,5	45,9	10

Geeignet für Schläuche des Typs
Suitable for conduit types



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
VS1202N07PG07	PG07	7	17	7,5	5,5	50
VS1202N10PG09	PG09	10	20	8,5	8,8	50
VS1202N13PG11	PG11	13	24	9	11,1	50
VS1202N15PG13	PG13,5	15	27	9,5	13,0	50
VS1202N16PG16	PG16	16	30	10	14,8	50
VS1202N21PG21	PG21	21	36	11	19,4	25
VS1202N29PG29	PG29	29 / 30	46	12	27,9	25
VS1202N38PG36	PG36	38	55	13	35,6	25
VS1202N44PG42	PG42	44	62	13	41,9	10
VS1202N48PG48	PG48	48	65	13,5	45,9	10

Schlauchverschraubung TYP VSH1205N

Material: Polypropylen
Ausführung: drehbar
Schutzart: IP654
Brennbarkeit: UL94 V0
Temperaturbereich: -10°C bis +110°C
Farbe: Grau RAL 7001

Conduit Fitting TYPE VSH1205N

Material: Polypropylene
Design: swivelling
Protection rating: IP654
Flammability: UL94 V0
Temperature range: -10°C up to +110°C
Colour: grey RAL 7001



Art. Nr. Art. No.	Schlauch NW Conduit DN	ID mm	VPE Stk. Unit pcs.
VSH1205N07	7	5,5	50
VSH1205N10	10	8,8	50
VSH1205N13	13	11,1	50
VSH1205N15	15	13,0	50
VSH1205N16	16	14,8	50
VSH1205N21	21	19,4	25
VSH1205N30	29 / 30	27,9	25
VSH1205N38	38	35,6	25
VSH1205N44	44	41,9	10
VSH1205N48	48	45,9	10

Geeignet für Schläuche des Typs
Suitable for conduit types

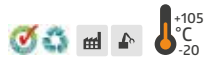


Schlauchverschraubung TYP GFMF

Material: Messing vernickelt
Ausführung: starres Aussengewinde
Schutzart: IP67
Temperaturbereich: -20°C bis +105°C

Conduit Fitting TYPE GFMF

Material: nickel-plated brass
Design: rigid male thread
Protection rating: IP67
Temperature range: -20°C up to +105°C



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
GFMF10M12	M12	10	22	24	10	8,0	20
GFMF10M16	M16	10	22	24	10	8,5	20
GFMF10M20	M20	10	22	24	10	8,5	20
GFMF12M16	M16	12	24	26	10	10,5	20
GFMF12M20	M20	12	24	26	10	10,5	20
GFMF15M20	M20	15	28	30	10	13,5	20
GFMF20M25	M25	20	35	38	10	18,5	10
GFMF27M32	M32	27	42	45	12	25,0	10
GFMF36M40	M40	36	50	53	12	34,0	5
GFMF40M50	M50	40	58	61	13	37,5	5
GFMF47M63	M63	47	64	70	13	44,0	2

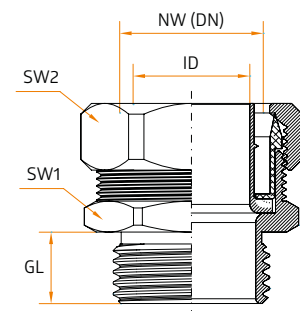
Geeignet für Schläuche des Typs
 Suitable for conduit types



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	SW2 mm	GL mm	ID mm	VPE Stk. Unit pcs.
GFMF10PG07	PG7	10	22	24	10	8,5	20
GFMF10PG09	PG9	10	22	24	10	8,5	20
GFMF10PG11	PG11	10	22	24	10	8,5	20
GFMF10PG13	PG13,5	10	22	24	10	8,5	20
GFMF12PG11	PG11	12	24	26	10	10,5	20
GFMF12PG13	PG13,5	12	24	26	10	10,5	20
GFMF15PG13	PG13,5	15	28	30	10	13,5	20
GFMF15PG16	PG16	15	28	30	10	13,5	20
GFMF20PG21	PG21	20	35	38	12	18,5	10
GFMF27PG29	PG29	27	42	45	12	25,0	10
GFMF36PG36	PG36	36	50	53	12	34,0	5
GFMF40PG36	PG36	40	58	61	17	37,5	5
GFMF40PG42	PG42	40	58	61	13	37,5	5
GFMF47PG48	PG48	47	64	70	13	44,0	2

Technische Zeichnung
 Engineering drawing



Schlauchverschraubung TYP GFM

Material: Messing vernickelt
Ausführung: starres Aussengewinde
Schutzart: IP67
Temperaturbereich: -20°C bis +105°C

Conduit Fitting TYPE GFM

Material: nickel-plated brass
Design: rigid male thread
Protection rating: IP67
Temperature range: -20°C up to +105°C



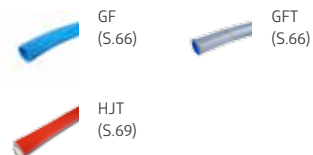
Auf Anfrage: mit Innengewinde lieferbar
On request: with female thread available



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW mm	GL mm	ID mm	VPE Stk. Unit pcs.
GFM10M12	M12	10	19	7	8	20
GFM10M16	M16	10	19	7	8	20
GFM12M16	M16	12	22	10	10	20
GFM12M20	M20	12	24	10	10	20
GFM15M20	M20	15	24	10	13	20
GFM20M20	M20	20	27	10	16	10
GFM20M25	M25	20	30	12	17	10
GFM27M25	M25	27	36	12	21	10
GFM27M32	M32	27	36	12	23	10
GFM36M32	M32	36	44	12	26	5
GFM40M40	M40	40	50	13	35	5
GFM47M50	M50	47	58	15	42	5
GFM58M63	M63	50	70	15	51	2

Geeignet für Schläuche des Typs
Suitable for conduit types



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Schlauch NW Conduit DN	SW1 mm	GL mm	ID mm	VPE Stk. Unit pcs.
GFMP10PG07	PG07	10	19	7	8	20
GFMP10PG09	PG09	10	19	7	8	20
GFMP10PG11	PG11	10	22	7	8	20
GFMP12PG11	PG11	12	22	7	10	20
GFMP12PG13	PG13,5	12	24	7	10	20
GFMP12PG16	PG16	12	24	7	10	20
GFMP15PG13	PG13,5	15	24	7	13	20
GFMP15PG16	PG16	15	24	7	13	20
GFMP20PG13	PG13,5	20	27	7	16	10
GFMP20PG16	PG16	20	27	7	17	10
GFMP20PG21	PG21	20	30	10	17	10
GFMP27PG21	PG21	27	36	10	23	10
GFMP27PG29	PG29	27	40	10	23	10
GFMP36PG29	PG29	36	45	11	30	10
GFMP40PG36	PG36	40	50	13	36	5
GFMP47PG36	PG36	47	58	15	40	5
GFMP47PG42	PG42	47	58	15	42	5
GFMP58PG48	PG48	58	70	15	51	2

Passendes Zubehör
Suitable accessories



Starres Steckrohr

TYP STD

Material: Stahl feuerverzinkt
Stahl galv. verzinkt
Edelstahl V2A/1.4301
Edelstahl V4A/1.4401

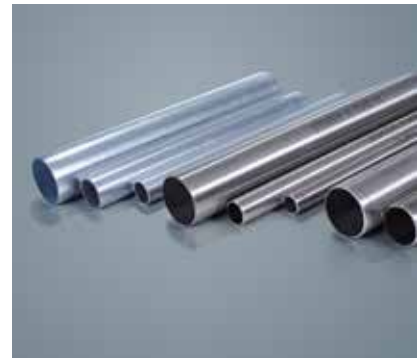
Temperaturbereich: -45°C bis +250°C
Edelstahl +600°C

Rigid Pipe

TYPE STD

Material: hot-dip galvanized steel,
galvanized steel
stainless steel AISI 304
stainless steel AISI 316

Temperature range: -45°C up to +250°C
stainless steel +600°C



VERZINKT

Art. Nr. feuerverzinkt Art. No. hot-dipped	Art. Nr. galvanisiert Art. No. galvanized	Größe DN	Wandstärke mm Wall thickness mm	Länge Length	VPE Unit
STDF163	STD163	16	1,0	3m	30m
STDF203	STD203	20	1,0	3m	30m
STDF253	STD253	25	1,25	3m	15m
STDF323	STD323	32	1,25	3m	15m
STDF403	STD403	40	1,25	3m	9m
STDF503	STD503	50	1,25	3m	6m
-	STD603	60	2,0	4m	8m
STDF633	-	63	2,0	3m	3m



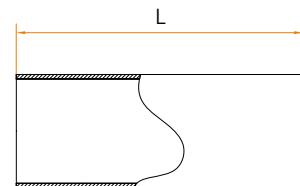
EDELSTAHL

Art. Nr. V2A. Art. No. AISI304	Art. Nr. V4A Art. No. AISI316	Größe DN	Wandstärke mm Wall thickness mm	Länge Length	VPE Unit
STD164	STD164A316	16	1,0	4m	4m
STD204	STD204A316	20	1,0	4m	4m
STD254	STD254A316	25	1,25	4m	4m
STD324	STD324A316	32	1,25	4m	4m
STD404	STD404A316	40	1,25	4m	4m
STD504	STD504A316	50	1,25	4m	4m
STD604	-	60	1,5	4m	4m

Auf Anfrage:
Gewinderohr lieferbar

On request:
Thread-pipe available

Technische Zeichnung
Engineering drawing



einsatzbar
applicable

Steckbogen 90°

TYP C

Material: Stahl feuerverzinkt
Stahl galv. verzinkt
Edelstahl V2A/1.4301
Edelstahl V4A/1.4401

Temperaturbereich: -45°C bis +250°C
Edelstahl +600°C

Elbow 90°

TYPE C

Material: hot-dip galvanized steel,
galvanized steel
stainless steel AISI 304
stainless steel AISI 316

Temperature range: -45°C up to +250°C
Stainless steel +600°C



VERZINKT

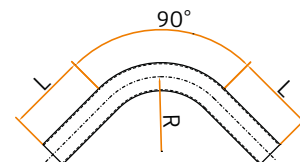
Art. Nr. feuerverzinkt Art. No. hot-dipped	Art. Nr. galvanisiert Art. No. galvanized	Größe DN	Wandstärke mm Wall thickness mm	L mm	R mm	VPE Stk. Unit pcs.
CF01	C01	16	1,0	100	45	25
CF08	C08	20	1,0	90	60	25
CF09	C09	25	1,25	100	70	10
CF04	C04	32	1,25	90	85	10
CF10	C10	40	1,25	100	95	5
CF06	C06	50	1,25	115	100	1
-	C07	60	2,0	140	150	1
CF02	-	63	2,0			



EDELSTAHL

Art. Nr. V2A Art. No. AISI 304	Art. Nr. V4A Art. No. AISI 316	Größe DN	Wandstärke mm Wall thickness mm	L mm	R mm	VPE Stk. Unit pcs.
CX01	CX01A316	16	1,0	100	45	25
CX08	CX08A316	20	1,0	90	60	25
CX09	CX09A316	25	1,25	100	70	10
CX04	CX04A316	32	1,25	90	85	10
CX10	CX10A316	40	1,25	100	95	5
CX06	CX06A316	50	1,25	115	100	1
CX07	CX07A316	60	1,5	140	150	1
CX02	-	63	2,0			

Technische Zeichnung
Engineering drawing



einsatzbar
applicable

Steckmuffe TYP SM

Material: Stahl feuerverzinkt
Edelstahl V2A/1.4301

Temperaturbereich: -45°C bis +250°C
Edelstahl +400°C

Connecting Sleeve TYPE SM

Material: hot-dipped steel
stainless steel AISI 304

Temperature range: -45°C up to +250°C
stainless steel +400°C



Art. Nr. feuerverzinkt Art. No. hot-dipped	Art. Nr. V2A Art. No. AISI 304	Größe DN	L mm	VPE Stk. Unit pcs.
SM16	SMVA16	16	44	50
SM20	SMVA20	20	54	50
SM25	SMVA25	25	58	50
SM32	SMVA32	32	68	50
SM40	SMVA40	40	76	25
SM50	SMVA50	50	101	10
SM63	SMVA63	63	102	5

Endmuffe TYP EM

Material: Stahl feuerverzinkt
Edelstahl V4A/1.4404

Temperaturbereich: -45°C bis +250°C
Edelstahl +600°C

End Sleeve TYPE EM

Material: hot-dipped steel
stainless steel AISI 316

Temperature range: -45°C up to +250°C
stainless steel +600°C



Art. Nr. feuerverzinkt Art. No. hot-dipped	Art. Nr. V4A Art. No. AISI 316	Größe DN	L mm	VPE Stk. Unit pcs.
EM16	EMX16	16	55	50
EM20	EMX20	20	55	50
EM25	EMX25	25	60	50
EM32	EMX32	32	70	50
EM40	EMX40	40	80	25
EM50	EMX50	50	95	10
EM63	EMX63	63	110	5

Gewinde/Steckverbinder

TYP ARM - ARF

Material: Messing vernickelt
Ausführung: Außengewinde (ARM)
 Innengewinde (ARF)
Schutzart: IP67
Temperaturbereich: bis +200°C

Thread/Plug Connector

TYPE ARM - ARF

Material: nickel-plated brass
Design: male thread (ARM)
 female thread (ARF)
Protection rating: IP67
Temperature range: up to +200°C



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Rohr Pipe	SW mm	L mm	GL mm	ID mm	VPE Stk. Unit pcs.
ARM16M	M16	16	24	38	10	11,0	20
ARM20M	M20	20	28	38	10	15,5	20
ARM25M	M25	25	33	39	10	20,0	10
ARM32M	M32	32	40	44	14	26,5	10
ARM40M	M40	40	50	51	15	35,0	5
ARM50M	M50	50	60	51	15	42,0	5



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Rohr Pipe	SW mm	L mm	GL mm	ID mm	VPE Stk. Unit pcs.
ARM16	1/2"	16	24	38	10	14,0	20
ARM20	1/2"	20	28	38	10	15,0	20
ARM20A	3/4"	20	28	38	10	18,0	20
ARM25	3/4"	25	33	39	10	20,0	10
ARM25A	1"	25	35	43	12	23,0	10
ARM32	1"	32	40	44	14	26,5	10
ARM40	1 1/4"	40	50	51	15	35,0	5
ARM50	1 1/2"	50	60	51	15	40,0	5
ARM50A	2"	50	64	51,5	15	47,0	2



GEWINDEART METRISCH

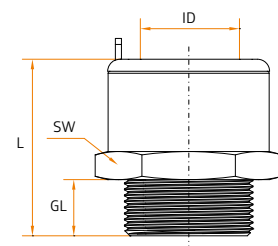
Art. Nr. Art. No.	Gewinde Thread	Rohr Pipe	SW mm	L mm	GL mm	ID mm	VPE Stk. Unit pcs.
ARF16M	M16	16	24	38	10	14,0	20
ARF20M	M20	20	28	38	10	18,0	20
ARF25M	M25	25	33	39	10	22,5	10
ARF32M	M32	32	40	44	14	29,5	10
ARF40M	M40	40	50	51	15	37,0	5
ARF50M	M50	50	60	51	15	42,5	5



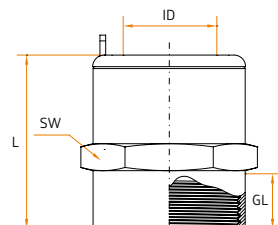
GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	Rohr Pipe	SW mm	L mm	GL mm	ID mm	VPE Stk. Unit pcs.
ARF16	1/2"	16	24	38	10	14,0	20
ARF20	3/4"	20	28	38	10	18,0	20
ARF25	3/4"	25	33	39	10	22,5	10
ARF32	1"	32	40	44	14	29,5	10
ARF40	1 1/4"	40	50	51	15	37,0	5
ARF50	1 1/2"	50	60	51	15	42,5	5
ARF50A	2"	50	64	51,5	15	47,0	2

Technische Zeichnung
Engineering drawing



Technische Zeichnung
Engineering drawing



Steckverbinder

TYP ARG / ARFR

Material: Messing vernickelt
Ausführung: Rohr / Rohr (ARG)
 Rohr / Schlauch (ARFR)
Schutzart: IP67
Temperaturbereich: bis +200°C

Connecting Sleeve

TYPE ARG / ARFR

Material: nickel-plated brass
Design: pipe / pipe (ARG)
 pipe / conduit (ARFR)
Protection rating: IP67
Temperature range: up to +200°C

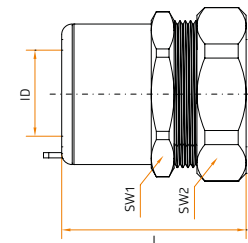
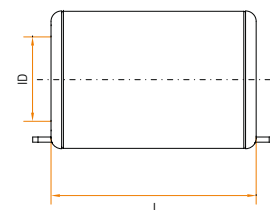


Art. Nr. Art. No.	Rohr Pipe	L mm	ID mm	VPE Stk. Unit pcs.
ARG16	16	54	14,0	10
ARG20	20	54	18,0	10
ARG25	25	56	22,5	10
ARG32	32	56	29,5	5
ARG40	40	70	37,5	5
ARG50	50	70	47,5	2



Art. Nr. Art. No.	Rohr Pipe	Schlauch NW Conduit DN	SW1 mm	SW2 mm	L mm	ID mm	VPE Stk. Unit pcs.
ARFR16	16	15	28	30	45,5	13,8	20
ARFR163	16	12	24	26	45,5	10,5	20
ARFR20	20	15	28	30	45,5	13,8	20
ARFR20A	20	20	35	38	48,5	18,0	10
ARFR25	25	20	35	38	49,5	18,1	10
ARFR25A	25	25	40	42	51,0	22,5	10
ARFR25B	25	27	42	45	51,0	22,5	10
ARFR32	32	27	42	45	51,5	24,5	5
ARFR32A	32	33	50	53	53,5	29,5	5
ARFR32B	32	35	50	53	53,5	29,5	5
ARFR40	40	33	50	53	60,5	30,8	5
ARFR40A	40	35	50	53	60,5	32,8	5
ARFR40B	40	40	58	61	63,5	37,5	5
ARFR50	50	50	70	74	64,0	47,5	2
ARFR50A	50	40	60	61	63,5	37,5	2

Technische Zeichnung
Engineering drawing



Steckverbinder

TYP ARPR

Material: Messing vernickelt
Ausführung: starres Außengewinde
 mit Zugentlastung
Schutzart: IP67
Temperaturbereich: bis +200°C

Connecting Sleeve

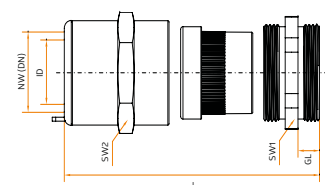
TYPE ARPR

Material: nickel-plated brass
Design: rigid male thread
 with strain relief
Protection rating: IP67
Temperature range: up to +200°C



Art. Nr. Art. No.	Gewinde Thread	Rohr Pipe	für Kabel mm for cable mm	SW1 mm	SW2 mm	L mm	ID mm	VPE Stk. Unit pcs.
ARPR1606M16	M16	16	4,0 - 6,5	19	24	55,5	10,5	1
ARPR1608M16	M16	16	5,0 - 8,0	19	24	55,5	10,5	1
ARPR1609M16	M16	16	6,5 - 9,5	19	24	55,5	10,5	1
ARPR2007M20	M20	20	4,0 - 6,5	22	28	55,5	14,5	1
ARPR2008M20	M20	20	5,0 - 8,0	22	28	55,5	14,5	1
ARPR2009M20	M20	20	6,5 - 9,5	22	28	55,5	14,5	1
ARPR2011M20	M20	20	7,0 - 10,5	22	28	55,5	14,5	1
ARPR2013M20	M20	20	9,0 - 13,0	22	28	55,5	14,5	1
ARPR2518M25	M25	25	14,0 - 18,0	30	33	56,0	20,5	1
ARPR2520M25	M25	25	17,0 - 20,5	30	33	56,0	20,5	1
ARPR3225M32	M32	32	20,0 - 25,0	40	40	67,5	26,0	1
ARPR4030M40	M40	40	26,0 - 30,0	45	50	73,5	32,0	1
ARPR5034M50	M50	50	29,0 - 34,0	52	60	78,0	37,5	1
ARPR5036M50	M50	50	32,0 - 36,0	52	60	78,0	37,5	1

Technische Zeichnung
Engineering drawing



Rohr-Zubehör

TYP FAR / FARX
TYP COLFS / COLFSX
TYP BC

Material: Stahl verzinkt
Edelstahl
Temperaturbereich: -45°C bis +250°C
Edelstahl +600°C

Anwendung:

Befestigungsmaterial für Rohre,
Schläuche und Kabel.

Pipe Accessories

TYPE FAR / FARX
TYPE COLFS / COLFSX
TYPE BC

Material: galvanized steel
stainless steel
Temperature range: -45°C up to +250°C
stainless steel +600°C

Applications:

Fixing Elements for Pipes,
conduits and cables.



COLFS/COLFSX

Rohrhalter mit Verschlusschrauben
Clamps with locking screws



FAR/FARX

Rohrhalter mit Sicherheitsclip
Clamps with safety clip



Art. Nr. verzinkt Art. No. galvanized	Art. Nr. VA Art. No. INOX	Rohr Pipe	VPE Stk. Unit pcs.
FAR16	FARX16	16	100
FAR20	FARX20	20	100
FAR25	FARX25	25	75
FAR32	FARX32	32	50
FAR40	FARX40	40	25
FAR50	FARX50	50	25



Art. Nr. verzinkt Art. No. galvanized	Rohr Pipe	VPE Stk. Unit pcs.
COLFS16	16	100
COLFS22	20	50
COLFS28	25	50
COLFS32	32	25
COLFS38	40	25
COLFS50	50	25
COLFS63	60	20



Art. Nr. Art. No.	Rohr Pipe	VPE Stk. Unit pcs.
BC16	16	50
BC20	20	50
BC25	25	50
BC32	32	50
BC40	40	25
BC50	50	25
BC60	60	25

Rohr-Zubehör

TYP LRSG

Material: Stahl verzinkt
mit Gummiprofil
Temperaturbereich: -45°C bis +105°C

Anwendung:

Befestigungsmaterial für Rohre,
Schläuche und Kabel.

Pipe Accessories

TYPE LRSG

Material: galvanized steel
with rubber profile
Temperature range: -45°C up to +105°C

Applications:

Fixing elements for pipes,
conduits and cables.



Art. Nr. LRSG Art. No. LRSG	AD mm OD mm	Bandbreite mm Strip width mm	VPE Stk. Unit pcs.
LRSG-10	10	9	100
LRSG-14	14	9	100
LRSG-17	17	12	100
LRSG-19	19	12	100
LRSG-21	21	12	100
LRSG-27	27	15	100
LRSG-36	36	20	50
LRSG-45	45	25	50
LRSG-52	52	25	25
LRSG-56	56	25	25



Art. Nr. LRSG12 Art. No. LRSG12	AD mm OD mm	Bandbreite mm Strip width mm	VPE Stk. Unit pcs.
LRSG12-10	10	9	100
LRSG12-14	14	9	100
LRSG12-17	17	12	100
LRSG12-19	19	12	100
LRSG12-21	21	12	100
LRSG12-27	27	15	100
LRSG12-36	36	20	50
LRSG12-45	45	25	50
LRSG12-52	52	25	25
LRSG12-56	56	25	25



Art. Nr. LRSG11 Art. No. LRSG11	AD mm OD mm	Bandbreite mm Strip width mm	VPE Stk. Unit pcs.
LRSG11-10	10	9	100
LRSG11-14	14	9	100
LRSG11-17	17	12	100
LRSG11-19	19	12	100
LRSG11-21	21	12	100
LRSG11-27	27	15	100
LRSG11-36	36	20	50
LRSG11-45	45	25	50
LRSG11-52	52	25	25
LRSG11-56	56	25	25

Kabelverschraubung

TYP K-LFKV / LLKV

Material: Polyamid
Klemmeinsatz: Neopren
Schutzart: IP68
Temperaturbereich: -30°C bis +80°C
kurzzeitig +150°C

K-LFKV:	Grau	RAL 7001
K-LFKVG:	Hellgrau	RAL 7035
K-LFKVB:	Schwarz	RAL 9005

Cable Gland

TYPE K-LFKV / LLKV

Material: Polyamide
Design: Neoprene
Protection rating: IP68
Temperature range: -30°C up to +80°C
short-term +150°C

K-LFKV:	grey	RAL 7001
K-LFKVG:	light grey	RAL 7035
K-LFKVB:	black	RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
K-LFKV*M1205	M12	2,0 - 5,0	15	8,0	100
K-LFKV*M1207	M12	3,0 - 6,5	15	8,0	100
K-LFKV*M1607	M16	3,0 - 7,0	22	10,0	50
K-LFKV*M1608	M16	4,0 - 8,0	19	8,0	50
K-LFKV*M1610	M16	5,0 - 10,0	22	10,0	50
K-LFKV*M2009	M20	5,0 - 9,0	24	10,0	50
K-LFKV*M2012	M20	6,0 - 12,0	24	10,0	50
K-LFKV*M2012	M20	7,0 - 12,0	27	10,0	50
K-LFKV*M2014	M20	10,0 - 14,0	27	10,0	50
K-LFKV*M2514	M25	9,0 - 14,0	33	10,0	50
K-LFKV*M2517	M25	11,0 - 17,0	29	8,0	50
K-LFKV*M2518	M25	13,0 - 18,0	33	10,0	25
K-LFKV*M3220	M32	12,0 - 20,0	42	18,0	20
K-LFKV*M3221	M32	15,0 - 21,0	36	10,0	25
K-LFKV*M3225	M32	18,0 - 25,0	42	18,0	20
K-LFKV*M4028	M40	19,0 - 28,0	46	10,0	20
K-LFKV*M4026	M40	20,0 - 26,0	53	18,0	10
K-LFKV*M4032	M40	22,0 - 32,0	53	18,0	10
K-LFKV*M5031	M50	25,0 - 31,0	60	18,0	10
K-LFKV*M5038	M50	30,0 - 38,0	60	18,0	10
K-LFKV*M6335	M63	29,0 - 35,0	65	18,0	10
K-LFKV*M6344	M63	34,0 - 44,0	65	18,0	10

Auch mit langem Anschlussgewinde
und NPT - Gewinde lieferbar.
Auch mit Knickschutzspirale
lieferbar.

Also available with long connecting
thread and NPT - thread.
Also available with bend protection
spiral.



GEWINDEART METRISCH

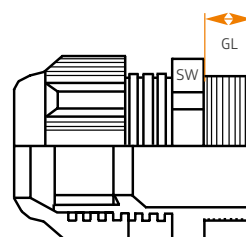
Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
K-LLKV*M1207	M12	3,0 - 6,5	15	8	100
K-LLKV*M1608	M16	4,0 - 8,0	19	8	50
K-LLKV*M1610	M20	5,0 - 10,0	22	10	50
K-LLKV*M2012	M20	6,0 - 12,0	24	10	50
K-LLKV*M2014	M20	10,0 - 14,0	27	10	50
K-LLKV*M2518	M25	13,0 - 18,0	33	10	25
K-LLKV*M3225	M32	18,0 - 25,0	42	16	20
K-LLKV*M4032	M40	22,0 - 32,0	53	18	10
K-LLKV*M5038	M50	30,0 - 38,0	60	18	10
K-LLKV*M6344	M63	34,0 - 44,0	65	18	10



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
K-LFKV*PG0705	PG07	2,0 - 5,0	15	8,0	100
K-LFKV*PG0707	PG07	3,0 - 6,5	15	8,0	100
K-LFKV*PG0906	PG09	2,0 - 6,0	19	8,0	50
K-LFKV*PG0908	PG09	4,0 - 8,0	19	8,0	50
K-LFKV*PG1107	PG11	3,0 - 7,0	22	8,0	50
K-LFKV*PG1110	PG11	5,0 - 10,0	22	8,0	50
K-LFKV*PG1309	PG13,5	5,0 - 9,0	24	9,0	50
K-LFKV*PG1312	PG13,5	6,0 - 12,0	24	9,0	50
K-LFKV*PG1612	PG16	7,0 - 12,0	27	10,0	50
K-LFKV*PG1614	PG16	10,0 - 14,0	27	10,0	50
K-LFKV*PG2116	PG21	9,0 - 16,0	33	11,0	25
K-LFKV*PG2118	PG21	13,0 - 18,0	33	11,0	25
K-LFKV*PG2920	PG29	12,0 - 20,0	42	11,0	20
K-LFKV*PG2925	PG29	18,0 - 25,0	42	11,0	20
K-LFKV*PG3626	PG36	20,0 - 26,0	53	13,0	10
K-LFKV*PG3632	PG36	22,0 - 32,0	53	13,0	10
K-LFKV*PG4231	PG42	25,0 - 31,0	60	13,0	10
K-LFKV*PG4238	PG42	30,0 - 38,0	60	13,0	10
K-LFKV*PG4835	PG48	29,0 - 35,0	65	14,0	10
K-LFKV*PG4844	PG48	34,0 - 44,0	65	14,0	10

Technische Zeichnung
Engineering drawing



Kabelverschraubung

TYP K-LHSK-PVDF

Material: PVDF
Klemmeinsatz: FPM
Schutzart: IP68
Temperaturbereich: -35°C bis +150°C

Anwendung:

Gute Beständigkeit gegen aggressive Medien und gegen hohe Temperaturen.

Cable Gland

TYPE K-LHSK-PVDF

Material: PVDF
Design: FPM
Protection rating: IP68
Temperature range: -35°C up to +150°C

Applications:

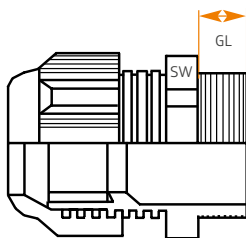
Good resistance against aggressive media and against high temperatures.



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	Klemmber. mm Cl. range mm	GL mm	SW mm	VPE Stk. Unit pcs.
K-LHSK-M1205	M12x1,5	2,0 - 5,0	8,0	15	50
K-LHSK-M1207	M12x1,5	3,0 - 6,5	8,0	15	50
K-LHSK-M1606	M16x1,5	2,0 - 6,0	8,0	19	50
K-LHSK-M1608	M16x1,5	4,0 - 8,0	8,0	19	50
K-LHSK-M2009	M20x1,5	5,0 - 9,0	9,0	24	50
K-LHSK-M2012	M20x1,5	6,0 - 12,0	9,0	24	50
K-LHSK-M2516	M25x1,5	9,0 - 16,0	11,0	33	50
K-LHSK-M2518	M25x1,5	13,0 - 18,0	11,0	33	50
K-LHSK-M3220	M32x1,5	13,0 - 20,0	11,0	42	25
K-LHSK-M3225	M32x1,5	18,0 - 25,0	11,0	42	25

Technische Zeichnung
Engineering drawing



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	Klemmber. mm Cl. range mm	GL mm	SW mm	VPE Stk. Unit pcs.
K-LHSK-PG0705	PG7	2,0 - 5,0	8,0	15	50
K-LHSK-PG0707	PG7	3,0 - 6,5	8,0	15	50
K-LHSK-PG0906	PG9	2,0 - 6,0	8,0	19	50
K-LHSK-PG0908	PG9	4,0 - 8,0	8,0	19	50
K-LHSK-PG1107	PG11	3,0 - 7,0	8,0	22	50
K-LHSK-PG1110	PG11	5,0 - 10,0	8,0	22	50
K-LHSK-PG1309	PG13,5	5,0 - 9,0	9,0	24	50
K-LHSK-PG1312	PG13,5	6,0 - 12,0	9,0	24	50
K-LHSK-PG1612	PG16	7,0 - 12,0	10,0	27	50
K-LHSK-PG1614	PG16	10,0 - 14,0	10,0	27	50
K-LHSK-PG2116	PG21	9,0 - 16,0	11,0	33	50
K-LHSK-PG2118	PG21	13,0 - 18,0	11,0	33	50
K-LHSK-PG2920	PG29	13,0 - 20,0	11,0	42	25
K-LHSK-PG2925	PG29	18,0 - 25,0	11,0	42	25
K-LHSK-PG3626	PG36	20,0 - 26,0	13,0	53	10
K-LHSK-PG3632	PG36	22,0 - 32,0	13,0	53	10
K-LHSK-PG4231	PG42	25,0 - 31,0	13,0	60	5
K-LHSK-PG4238	PG42	32,0 - 38,0	13,0	60	5
K-LHSK-PG4835	PG48	29,0 - 35,0	14,0	65	5
K-LHSK-PG4844	PG48	37,0 - 44,0	14,0	65	5

Mit zusätzlich vormontiertem O-Ring auf Anfrage. Andere Farben und Dichtungsmaterialien auf Anfrage.

With additional pre-assembled o-ring on request. Different colours and sealing materials on request.

Kabelverschraubung

TYP K-KV-FIX

Material: Polyamid 6
Klemmeinsatz: NBR
Schutzart: IP68
Temperaturbereich: -20°C bis +100°C

Anwendung:

Kabelverschraubung ohne Gewinde zum Einstecken und Drehen. Ideal im Schaltschrankbau, bei Kälte- und Klimaanlage, in der Antriebstechnik und Elektroinstallation.

Farben:

Grau	RAL 7001
Hellgrau	RAL 7035
Schwarz	RAL 9005

Cable Gland

TYPE K-KV-FIX

Material: Polyamide 6
Design: NBR
Protection rating: IP68
Temperature range: -20°C up to +100°C

Applications:

Cable gland without thread to plug and turn. Perfect for switch cabinets, cooling system, air conditioners, drive engineering and electrical installations.



Art. Nr. Art. No. RAL7035	Art. Nr. Art. No. RAL7001	Art. Nr. Art. No. RAL9005	für Kabel for cable	Loch mm	Wandstärke mm	SW1 mm	SW2 mm	H mm	VPE Stk. Unit pcs.
K-KVFIX16G	K-KVFIX16	K-KVFIX16B	5,0 - 10,0	16,5	1,0 - 4,0	24	20	38,5	100
K-KVFIX20G	K-KVFIX20	K-KVFIX20B	8,0 - 13,0	20,5	1,0 - 4,0	26	24	42,5	100
K-KVFIX25G	K-KVFIX25	K-KVFIX25B	11,0 - 17,0	25,5	1,0 - 4,0	32	29	48,0	50
K-KVFIX32G	K-KVFIX32	K-KVFIX32B	15,0 - 21,0	32,5	1,0 - 4,0	42	36	58,5	25

Kabelverschraubung TYP UNI-DICHT

Material: Polyamid
Klemmeinsatz: TPE
Schutzart: IP68
Temperaturbereich: -20°C bis +100°C

Cable Gland TYPE UNI-DICHT

Material: Polyamide
Clamping insert: TPE
Protection rating: IP68
Temperature range: -20°C up to +100°C



Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	H mm	GL mm	VPE Stk. Unit pcs.
K-UNIM1207	M12	4,0 - 6,5	15	30,0	8,0	50
K-UNIM1607	M16	4,0 - 6,5	19	31,0	9,0	50
K-UNIM1608	M16	5,0 - 8,0	19	31,0	9,0	50
K-UNIM1610	M16	6,5 - 9,5	19	31,0	9,0	50
K-UNIM2007	M20	4,0 - 6,5	24	31,0	9,0	50
K-UNIM2008	M20	5,0 - 8,0	24	31,0	9,0	50
K-UNIM2010	M20	6,5 - 9,5	24	31,0	9,0	50
K-UNIM2011	M20	7,0 - 10,5	24	31,0	9,0	50
K-UNIM2013	M20	9,0 - 13,0	24	31,0	9,0	50
K-UNIM2507	M25	4,0 - 6,5	30	32,0	9,0	50
K-UNIM2508	M25	5,0 - 8,0	30	32,0	9,0	50
K-UNIM2510	M25	6,5 - 9,5	30	32,0	9,0	50
K-UNIM2511	M25	7,0 - 10,5	30	32,0	9,0	50
K-UNIM2513	M25	9,0 - 13,0	30	32,0	9,0	50
K-UNIM2516	M25	11,5 - 15,5	30	32,0	9,0	50
K-UNIM3211	M32	7,0 - 10,5	36	38,0	11,0	25
K-UNIM3213	M32	9,0 - 13,0	36	38,0	11,0	25
K-UNIM3216	M32	11,5 - 15,5	36	38,0	11,0	25
K-UNIM3218	M32	14,0 - 18,0	36	38,0	11,0	25
K-UNIM3221	M32	17,0 - 20,5	36	38,0	11,0	25
K-UNIM4016	M40	11,5 - 15,5	46	45,5	11,5	10
K-UNIM4018	M40	14,0 - 18,0	46	45,5	11,5	10
K-UNIM4021	M40	17,0 - 20,5	46	45,5	11,5	10
K-UNIM4025	M40	20,0 - 25,0	46	45,5	11,5	10
K-UNIM4028	M40	24,0 - 28,0	46	45,5	11,5	10
K-UNIM5032	M50	27,0 - 32,0	56	48,0	14,0	5
K-UNIM5034	M50	29,0 - 34,0	56	48,0	14,0	5
K-UNIM5036	M50	32,0 - 36,0	56	48,0	14,0	5

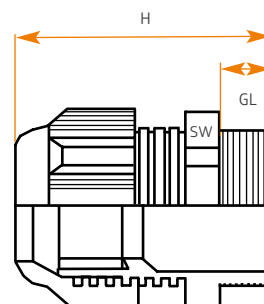
Auch in der Farbe Schwarz lieferbar. Auch mit Mehrfachdichteinsätzen lieferbar.

Also available in black colour. Also available with multiple sealing inserts.



Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	H mm	GL mm	VPE Stk. Unit pcs.
K-UNIPG0707	PG07	4,0 - 6,5	15	31,0	8,0	50
K-UNIPG0907	PG09	4,0 - 6,5	19	32,0	9,0	50
K-UNIPG0908	PG09	5,0 - 8,0	19	32,0	9,0	50
K-UNIPG0910	PG09	6,5 - 9,5	19	32,0	9,0	50
K-UNIPG1107	PG11	4,0 - 6,5	22	33,0	9,0	50
K-UNIPG1108	PG11	5,0 - 8,0	22	33,0	9,0	50
K-UNIPG1110	PG11	6,5 - 9,5	22	33,0	9,0	50
K-UNIPG1111	PG11	7,0 - 10,5	22	33,0	9,0	50
K-UNIPG1307	PG13,5	4,0 - 6,5	24	33,0	9,0	50
K-UNIPG1308	PG13,5	5,0 - 8,0	24	33,0	9,0	50
K-UNIPG1310	PG13,5	6,5 - 9,5	24	33,0	9,0	50
K-UNIPG1311	PG13,5	7,0 - 10,5	24	33,0	9,0	50
K-UNIPG1313	PG13,5	9,0 - 13,0	24	33,0	9,0	50
K-UNIPG1607	PG16	4,0 - 6,5	27	33,0	9,0	50
K-UNIPG1608	PG16	5,0 - 8,0	27	33,0	9,0	50
K-UNIPG1610	PG16	6,5 - 9,5	27	33,0	9,0	50
K-UNIPG1611	PG16	7,0 - 10,5	27	33,0	9,0	50
K-UNIPG1613	PG16	9,0 - 13,0	27	33,0	9,0	50
K-UNIPG1616	PG16	11,5 - 15,5	27	33,0	9,0	50
K-UNIPG2111	PG21	7,0 - 10,5	33	40,0	11,0	25
K-UNIPG2113	PG21	9,0 - 13,0	33	40,0	11,0	25
K-UNIPG2116	PG21	11,5 - 15,5	33	40,0	11,0	25
K-UNIPG2118	PG21	14,0 - 18,0	33	40,0	11,0	25
K-UNIPG2121	PG21	17,0 - 20,5	33	40,0	11,0	25
K-UNIPG2913	PG29	9,0 - 13,0	43	44,0	11,0	10
K-UNIPG2916	PG29	11,5 - 15,5	43	44,0	11,0	10
K-UNIPG2918	PG29	14,0 - 18,0	43	44,0	11,0	10
K-UNIPG2921	PG29	17,0 - 20,5	43	44,0	11,0	10
K-UNIPG2925	PG29	20,0 - 25,0	43	44,0	11,0	25
K-UNIPG2928	PG29	24,0 - 28,0	43	44,0	11,0	25
K-UNIPG3632	PG36	27,0 - 32,0	53	47,0	14,0	10
K-UNIPG3634	PG36	29,0 - 34,0	53	47,0	14,0	10
K-UNIPG3636	PG36	32,0 - 36,0	53	47,0	14,0	10

Technische Zeichnung Engineering drawing



Kabelverschraubungen AUF ANFRAGE

Cable Glands ON REQUEST

K-VZB - IP65

mit zusätzlicher Zugentlastung und Biegeschutz
with additional strain relief and bend protection



K-VP - IP54

mit Druckschraube
with pressure screw



K-LHSK-W-FLEX - IP68

90° Kabelverschraubung mit Knickschutz und Öffnung
Elbow 90° with bend protection and opening



K-LHSK-W - IP68

90° Kabelverschraubung mit Öffnung
Elbow 90° with opening



K-LFKVS - IP68

mit Knickschutzspirale
with bend protection spiral



Gegenmutter TYP K-GM

Material: Polyamid
Temperaturbereich: -30°C bis +100°C

Farbe:	Grau	RAL 7001
	Hellgrau	RAL 7035
	Schwarz	RAL 9005

Locknut TYPE K-GM

Material: Polyamide
Temperature range: -30°C up to +100°C

Colour:	grey	RAL 7001
	light grey	RAL 7035
	black	RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 7001	Art. Nr. Art. No. RAL 9005	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
K-GMM12G	K-GMM12	K-GMM12B	M12	17	5,5	100
K-GMM16G	K-GMM16	K-GMM16B	M16	22	5,5	100
K-GMM20G	K-GMM20	K-GMM20B	M20	26	6,5	100
K-GMM25G	K-GMM25	K-GMM25B	M25	32	7,0	100
K-GMM32G	K-GMM32	K-GMM32B	M32	41	7,0	50
K-GMM40G	K-GMM40	K-GMM40B	M40	50	7,0	25
K-GMM50G	K-GMM50	K-GMM50B	M50	60	8,5	10
K-GMM63G	K-GMM63	K-GMM63B	M63	75	8,5	5



GEWINDEART PG

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 7001	Art. Nr. Art. No. RAL 9005	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
K-GMPG07G	K-GMPG07	K-GMPG07B	PG07	19	5,0	100
K-GMPG09G	K-GMPG09	K-GMPG09B	PG09	22	6,0	100
K-GMPG11G	K-GMPG11	K-GMPG11B	PG11	24	6,0	100
K-GMPG13G	K-GMPG13	K-GMPG13B	PG13,5	27	6,0	100
K-GMPG16G	K-GMPG16	K-GMPG16B	PG16	30	6,0	100
K-GMPG21G	K-GMPG21	K-GMPG21B	PG21	36	7,0	50
K-GMPG29G	K-GMPG29	K-GMPG29B	PG29	46	7,0	25
K-GMPG36G	K-GMPG36	K-GMPG36B	PG36	60	8,0	10
K-GMPG42G	K-GMPG42	K-GMPG42B	PG42	65	8,0	5
K-GMPG48G	K-GMPG48	K-GMPG48B	PG48	70	8,0	5



GEWINDEART ZOLL

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 7001	Art. Nr. Art. No. RAL 9005	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
K-GMZ014G	K-GMZ014	K-GMZ014N	1/4"	19	5,0	100
K-GMZ038G	K-GMZ038	K-GMZ038N	3/8"	22	5,0	100
K-GMZ012G	K-GMZ012	K-GMZ012N	1/2"	27	6,0	100
K-GMZ034G	K-GMZ034	K-GMZ034N	3/4"	32	7,0	50
K-GMZ100G	K-GMZ100	K-GMZ100N	1"	39	7,0	50
K-GMZ114G	-	-	1 1/4"	52	8,0	25
-	K-GMZ114	K-GMZ114N	1 1/4"	50	8,0	25
K-GMZ112G	-	-	1 1/2"	60	8,0	25
-	K-GMZ112	K-GMZ112N	1 1/2"	56	8,0	25
K-GMZ200G	-	-	2"	70	8,0	25
-	K-GMZ200	K-GMZ200N	2"	70	8,5	25

Reduzierung TYP K-RED

Material: Polyamid
Temperaturbereich: -30°C bis +100°C

Farbe: Hellgrau RAL 7035

Reducer TYPE K-RED

Material: Polyamide
Temperature range: -30°C up to +100°C

Colour: light grey RAL 7035



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male thr.	IG Female thr.	L mm	GL/AG mm	SW mm	Form	VPE Stk. Unit pcs.
K-REDM1612	M16	M12	12,0	8,0	24	B	100
K-REDM2012	M20	M12	12,0	8,0	24	B	100
K-REDM2016	M20	M16	12,0	8,0	24	B	100
K-REDM2512	M25	M12	14,0	8,0	29	B	100
K-REDM2516	M25	M16	14,0	8,0	29	B	100
K-REDM2520	M25	M20	14,0	8,0	29	B	100
K-REDM3212	M32	M12	16,0	10,0	36	B	50
K-REDM3216	M32	M16	16,0	10,0	36	B	50
K-REDM3220	M32	M20	16,0	10,0	36	B	50
K-REDM3225	M32	M25	16,0	10,0	36	B	50
K-REDM4016	M40	M16	16,0	10,0	46	B	50
K-REDM4020	M40	M20	16,0	10,0	46	B	50
K-REDM4025	M40	M25	16,0	10,0	46	B	50
K-REDM4032	M40	M32	16,0	10,0	55	B	50
K-REDM5020	M50	M20	18,0	12,0	55	B	25
K-REDM5025	M50	M25	18,0	12,0	55	B	25
K-REDM5032	M50	M32	18,0	12,0	55	B	25
K-REDM5040	M50	M40	18,0	12,0	55	B	25
K-REDM6325	M63	M25	18,0	12,0	68	B	25
K-REDM6332	M63	M32	18,0	12,0	68	B	25
K-REDM6340	M63	M40	18,0	12,0	68	B	25
K-REDM6350	M63	M50	18,0	12,0	68	B	25

Aussengewinde (AG) Metrisch
Innengewinde (IG) Metrisch

Male thread (AG) metric
Female thread (IG) metric



GEWINDEART PG

Art. Nr. Art. No.	AG Male thr.	IG Female thr.	L mm	GL/AG mm	SW mm	Form	VPE Stk. Unit pcs.
K-REDPG0907	PG09	PG07	20,5	8,0	19	A	100
K-REDPG1107	PG11	PG07	14,0	8,0	22	B	100
K-REDPG1109	PG11	PG09	22,5	8,0	22	A	100
K-REDPG1307	PG13,5	PG07	15,0	9,0	24	B	100
K-REDPG1309	PG13,5	PG09	15,0	9,0	24	B	100
K-REDPG1311	PG13,5	PG11	24,0	9,0	24	A	100
K-REDPG1609	PG16	PG09	16,0	10,0	27	B	100
K-REDPG1611	PG16	PG11	16,0	10,0	27	B	100
K-REDPG1613	PG16	PG13,5	27,0	10,0	27	A	100
K-REDPG2111	PG21	PG11	16,0	11,0	32	B	100
K-REDPG2113	PG21	PG13,5	16,0	11,0	32	B	100
K-REDPG2116	PG21	PG16	16,0	11,0	32	B	100
K-REDPG2913	PG29	PG13,5	17,0	11,0	40	B	50
K-REDPG2916	PG29	PG16	17,0	11,0	40	B	50
K-REDPG2921	PG29	PG21	17,0	11,0	40	B	50
K-REDPG3616	PG36	PG16	19,0	13,0	50	B	50
K-REDPG3621	PG36	PG21	19,0	13,0	50	B	50
K-REDPG3629	PG36	PG29	24,0	18,0	50	B	50
K-REDPG4221	PG42	PG21	24,0	18,0	55	B	25
K-REDPG4229	PG42	PG29	24,0	18,0	55	B	25
K-REDPG4236	PG42	PG36	24,0	18,0	55	B	25
K-REDPG4829	PG48	PG29	24,0	18,0	60	B	25
K-REDPG4836	PG48	PG36	20,0	14,0	60	B	25
K-REDPG4842	PG48	PG42	23,0	17,0	60	B	25

Aussengewinde (AG) PG
Innengewinde (IG) PG

Male thread (AG) PG
Female thread (IG) PG

Erweiterung TYP K-ERW

Material: Polyamid
Temperaturbereich: -30°C bis +100°C

Farbe: Hellgrau RAL 7035

Enlarger TYPE K-ERW

Material: Polyamide
Temperature range: -30°C up to +100°C

Colour: light grey RAL 7035



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male thr.	IG Female thr.	L mm	GL/AG mm	SW mm	VPE Stk. Unit pcs.
K-ERWM1216	M12	M16	20,5	8,0	20	100
K-ERWM1620	M16	M20	20,5	8,0	24	100
K-ERWM2025	M20	M25	21,0	8,0	30	100
K-ERWM2532	M25	M32	23,0	8,0	37	50
K-ERWM3240	M32	M40	25,0	10,0	45	50

Aussengewinde (AG) Metrisch
Innengewinde (IG) Metrisch

Male thread (AG) metric
Female thread (IG) metric



GEWINDEART PG

Art. Nr. Art. No.	AG Male thr.	IG Female thr.	L mm	GL/AG mm	SW mm	VPE Stk. Unit pcs.
K-ERWPG0709	PG07	PG09	21,0	8,0	19	100
K-ERWPG0911	PG09	PG11	23,0	8,0	22	100
K-ERWPG1113	PG11	PG13,5	23,0	8,0	24	100
K-ERWPG1116	PG11	PG16	24,5	8,0	27	100
K-ERWPG1316	PG13,5	PG16	26,0	9,0	27	100
K-ERWPG1621	PG16	PG21	29,0	9,0	32	100
K-ERWPG2129	PG21	PG29	32,0	10,0	42	50
K-ERWPG2936	PG29	PG36	35,5	11,0	53	25
K-ERWPG3642	PG36	PG42	40,5	13,0	60	10
K-ERWPG4248	PG42	PG48	41,0	13,0	65	10

Aussengewinde (AG) PG
Innengewinde (IG) PG

Male thread (AG) PG
Female thread (IG) PG

Übergangsstück TYP K-Ü

Material: Polyamid
Temperaturbereich: -40°C bis +100°C

Farbe: Hellgrau RAL 7035

Adapter TYPE K-Ü

Material: Polyamide
Temperature range: -40°C up to +100°C

Colour: light grey RAL 7035



Art. Nr. Art. No.	AG Male	IG Female	L mm	GL/AG mm	SW mm	Form Form	VPE Stk. Unit pcs.
K-ÜM12PG07	M12	PG07	27,0	9,0	16	A	25
K-ÜM12PG09	M12	PG09	27,0	9,0	20	A	25
K-ÜM16PG09	M16	PG09	27,0	9,0	20	A	25
K-ÜM16PG11	M16	PG11	27,0	9,0	22	A	25
K-ÜM16PG13	M16	PG13,5	27,0	9,0	24	A	25
K-ÜM20PG11	M20	PG11	27,0	9,0	24	A	25
K-ÜM20PG13	M20	PG13,5	27,0	9,0	24	A	25
K-ÜM20PG16	M20	PG16	27,0	9,0	27	A	25
K-ÜM25PG13	M25	PG13,5	17,0	10,0	24	B	25
K-ÜM25PG16	M25	PG16	28,0	10,0	29	A	25
K-ÜM25PG21	M25	PG21	28,0	10,0	33	A	25
K-ÜM32PG16	M32	PG16	19,0	12,0	36	B	10
K-ÜM32PG21	M32	PG21	30,0	12,0	36	A	10
K-ÜM32PG29	M32	PG29	30,0	12,0	42	A	10
K-ÜM40PG21	M40	PG21	19,0	12,0	46	B	10
K-ÜM40PG29	M40	PG29	30,0	12,0	46	A	10
K-ÜM40PG36	M40	PG36	30,0	12,0	53	A	10
K-ÜM50PG36	M50	PG36	32,0	14,0	55	A	5
K-ÜM50PG42	M50	PG42	42,0	14,0	60	A	5
K-ÜM50PG48	M50	PG48	32,0	14,0	65	A	5
K-ÜM63PG42	M63	PG42	22,0	15,0	68	B	5
K-ÜM63PG48	M63	PG48	33,0	15,0	68	A	5

Aussengewinde (AG) Metrisch
Innengewinde (IG) PG

Male thread (AG) metric
Female thread (IG) PG

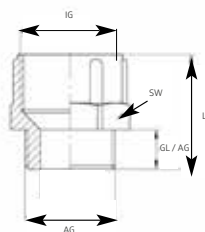


Art. Nr. Art. No.	AG Male	IG Female	L mm	GL/AG mm	SW mm	Form Form	VPE Stk. Unit pcs.
K-ÜPG07M12	PG07	M12	27,0	9,0	16	A	25
K-ÜPG07M16	PG07	M16	27,0	9,0	20	A	25
K-ÜPG09M12	PG09	M12	27,0	9,0	20	A	25
K-ÜPG09M16	PG09	M16	27,0	9,0	20	A	25
K-ÜPG09M20	PG09	M20	27,0	9,0	24	A	25
K-ÜPG11M16	PG11	M16	27,0	9,0	22	A	25
K-ÜPG11M20	PG11	M20	27,0	9,0	24	A	25
K-ÜPG11M25	PG11	M25	27,0	9,0	29	A	25
K-ÜPG13M16	PG13,5	M16	28,0	10,0	24	A	25
K-ÜPG13M20	PG13,5	M20	28,0	10,0	24	A	25
K-ÜPG13M25	PG13,5	M25	28,0	10,0	29	A	25
K-ÜPG16M20	PG16	M20	28,0	10,0	27	A	25
K-ÜPG16M25	PG16	M25	28,0	10,0	29	A	25
K-ÜPG16M32	PG16	M32	28,0	10,0	36	A	25
K-ÜPG21M25	PG21	M25	30,0	12,0	33	A	10
K-ÜPG21M32	PG21	M32	30,0	12,0	36	A	10
K-ÜPG21M40	PG21	M40	30,0	12,0	46	A	10
K-ÜPG29M32	PG29	M32	19,0	12,0	42	B	10
K-ÜPG29M40	PG29	M40	30,0	12,0	46	A	10
K-ÜPG29M50	PG29	M50	30,0	12,0	55	A	10
K-ÜPG36M40	PG36	M40	21,0	14,0	53	B	10
K-ÜPG36M50	PG36	M50	32,0	14,0	55	A	10
K-ÜPG36M63	PG36	M63	32,0	14,0	68	A	10
K-ÜPG42M40	PG42	M40	21,0	14,0	60	B	5
K-ÜPG42M50	PG42	M50	32,0	14,0	60	A	5
K-ÜPG42M63	PG42	M63	32,0	14,0	68	A	5
K-ÜPG48M50	PG48	M50	22,0	15,0	65	B	5
K-ÜPG48M63	PG48	M63	33,0	15,0	68	A	5

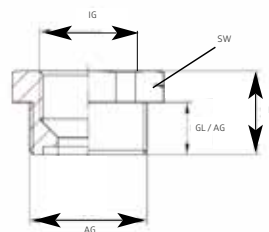
Aussengewinde (AG) PG
Innengewinde (IG) Metrisch

Male thread (AG) PG
Female thread (IG) metric

Technische Zeichnung Form A Engineering drawing shape A



Technische Zeichnung Form B Engineering drawing shape B



Verschlusschraube TYP K-VST

Material: Polyamid
Temperaturbereich: -30°C bis +130°C

Farbe:	Grau	RAL 7001
	Hellgrau	RAL 7035
	Schwarz	RAL 9005

Plug Screw TYPE K-VST

Material: Polyamide
Temperature range: -30°C up to +130°C

Colour:	grey	RAL 7001
	light grey	RAL 7035
	black	RAL 9005



GEWINDEART METRISCH

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 7001	Art. Nr. Art. No. RAL 9005	Gewinde Thread	GL mm	L mm	AD Unit	VPE Stk. Unit pcs.
K-VSTM12G	K-VSTM12	K-VSTM12B	M12	6,0	10,0	15,0	100
K-VSTM16G	K-VSTM16	K-VSTM16B	M16	7,0	11,0	20,0	100
K-VSTM20G	K-VSTM20	K-VSTM20B	M20	7,0	12,5	24,0	100
K-VSTM25G	K-VSTM25	K-VSTM25B	M25	10,0	16,0	30,0	100
K-VSTM32G	K-VSTM32	K-VSTM32B	M32	11,0	16,0	37,0	50
K-VSTM40G	K-VSTM40	K-VSTM40B	M40	13,0	18,0	46,0	25
K-VSTM50G	K-VSTM50	K-VSTM50B	M50	14,0	19,0	56,0	10
K-VSTM63G	K-VSTM63	K-VSTM63B	M63	15,0	19,0	69,5	5



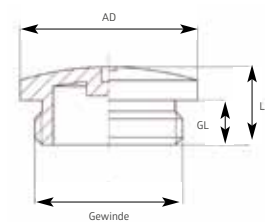
GEWINDEART PG

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 7001	Art. Nr. Art. No. RAL 9005	Gewinde Thread	GL mm	L mm	AD Unit	VPE Stk. Unit pcs.
K-VSTPG07G	K-VSTPG07	K-VSTPG07B	PG07	6,0	8,0	15,0	100
K-VSTPG09G	K-VSTPG09	K-VSTPG09B	PG09	6,5	9,5	19,0	100
K-VSTPG11G	K-VSTPG11	K-VSTPG11B	PG11	6,5	10,0	22,0	100
K-VSTPG13G	K-VSTPG13	K-VSTPG13B	PG13,5	6,5	10,0	25,0	100
K-VSTPG16G	K-VSTPG16	K-VSTPG16B	PG16	6,5	10,0	27,0	100
K-VSTPG21G	K-VSTPG21	K-VSTPG21B	PG21	8,0	12,0	33,0	50
K-VSTPG29G	K-VSTPG29	K-VSTPG29B	PG29	8,0	11,5	44,0	25
K-VSTPG36G	K-VSTPG36	K-VSTPG36B	PG36	10,0	14,0	55,0	10
K-VSTPG42G	K-VSTPG42	K-VSTPG42B	PG42	10,0	14,0	61,5	5
K-VSTPG48G	K-VSTPG48	K-VSTPG48B	PG48	12,0	16,0	68,0	5

Auch in Polystyrol (Temperaturbereich: -30°C bis +110°C) und montiertem O-Ring (IP68) lieferbar.

Also available in polystyrol (Temperature Range: -30°C up to +110°C) and mounted O-ring (IP68).

Technische Zeichnung
Engineering drawing



Würgenippel TYP K-WN

Material: PE-LD
Temperaturbereich: -40°C bis +80°C

Farbe: Hellgrau RAL 7035
Schwarz RAL 9005

Plug TYPE K-WN

Material: PE-LD
Temperature range: -40°C up to +80°C

Colour: light grey RAL 7035
black RAL 9005



Auf Anfrage: mit PG-Gewinde lieferbar
On request: available with PG-thread



GEWINDEART METRISCH

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 9005	Gewinde Thread	Dichtbereich mm Sealing range mm	GL mm	SW mm	H Unit	VPE Stk. Unit pcs.
K-WNM12G	K-WNM12B	M12	3,0 - 5,0	10,0	12	17,0	100
K-WNM16G	K-WNM16B	M16	5,0 - 10,0	10,0	15	17,0	100
K-WNM20G	K-WNM20B	M20	8,0 - 13,5	12,0	19	20,0	100
K-WNM25G	K-WNM25B	M25	9,0 - 16,0	12,0	24	22,0	100
K-WNM32G	K-WNM32B	M32	11,0 - 22,0	14,0	30	25,0	50
K-WNM40G	K-WNM40B	M40	17,0 - 24,0	16,0	37	28,0	25
K-WNM50G	K-WNM50B	M50	22,0 - 35,0	18,0	46	31,0	10
K-WNM63G	K-WNM63B	M63	24,0 - 43,0	20,0	56	35,0	5

Würgestopfen TYP K-WST

Material: PE-LD
Temperaturbereich: -40°C bis +80°C

Farbe: Hellgrau RAL 7035
Schwarz RAL 9005

Plug TYPE K-WST

Material: PE-LD
Temperature range: -40°C up to +80°C

Colour: light grey RAL 7035
black RAL 9005



Auf Anfrage: mit PG-Gewinde lieferbar
On request: available with PG-thread



GEWINDEART METRISCH

Art. Nr. Art. No. RAL 7035	Art. Nr. Art. No. RAL 9005	Gewinde Thread	Dichtbereich mm Sealing range mm	GL mm	SW mm	H Unit	VPE Stk. Unit pcs.
K-WSTM12G	K-WSTM12B	M12	3,0 - 5,0	10,0	12	17,0	100
K-WSTM16G	K-WSTM16B	M16	5,0 - 10,0	10,0	15	17,0	100
K-WSTM20G	K-WSTM20B	M20	8,0 - 13,5	12,0	19	20,0	100
K-WSTM25G	K-WSTM25B	M25	9,0 - 16,0	12,0	24	22,0	100
K-WSTM32G	K-WSTM32B	M32	11,0 - 22,0	14,0	30	25,0	50
K-WSTM40G	K-WSTM40B	M40	17,0 - 24,0	16,0	37	28,0	25
K-WSTM50G	K-WSTM50B	M50	22,0 - 35,0	18,0	46	31,0	10
K-WSTM63G	K-WSTM63B	M63	24,0 - 43,0	20,0	56	35,0	5

Kabeldurchführung

TYP DZ

Material: EPDM, CR, Silikon, TPE
Schutzart: IP67
Temperaturbereich:
EPDM: -40°C bis +120°C UL94V2
CR: -45°C bis +120°C UL94V2
Silikon: -50°C bis +200°C UL94V0
TPE: -40°C bis +100°C UL94V0

Farbe:	Grau	RAL 7042
	Hellgrau	RAL 7035
	Schwarz	RAL 9011
	Rot	RAL 3022

Cable Grommet

TYPE DZ

Material: EPDM, CR, silicone, TPE
Protection rating: IP67
Temperature range:
EPDM: -40°C up to +120°C UL94V2
CR: -45°C up to +120°C UL94V2
Silikon: -50°C up to +200°C UL94V0
TPE: -40°C up to +100°C UL94V0

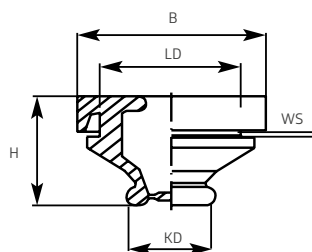
Colour:	grey	RAL 7042
	light grey	RAL 7035
	black	RAL 9011
	red	RAL 3022



Art. Nr. Art. No. EPDM RAL7042	Art. Nr. Art. No. EPDM RAL9011	Art. Nr. Art. No. CR RAL9011	Art. Nr. Art. No. Silicone RAL3022	LD mm	KD mm	WS mm	B mm	H mm	VPE Stk. Unit pcs.
DZ-EPDM12	DZ-EPDM12B	DZ-CRM12B	DZ-SM12R	12,5	3,0 - 5,0	1,3 - 5,0	19,0	18,5	100
DZ-EPDM16	DZ-EPDM16B	DZ-CRM16B	DZ-SM16R	16,5	5,0 - 7,0	1,3 - 5,0	23,0	18,5	100
DZ-EPDM20	DZ-EPDM20B	DZ-CRM20B	DZ-SM20R	20,5	7,0 - 10,0	1,3 - 5,0	27,0	19,5	100
DZ-EPDM25	DZ-EPDM25B	DZ-CRM25B	DZ-SM25R	25,5	10,0 - 14,0	1,3 - 5,0	32,0	19,5	100
DZ-EPDM32	DZ-EPDM32B	DZ-CRM32B	DZ-SM32R	32,5	14,0 - 20,0	1,3 - 5,0	39,0	21,5	50
DZ-EPDM40	DZ-EPDM40B	DZ-CRM40B	DZ-SM40R	40,5	20,0 - 26,0	1,3 - 5,0	47,0	24,0	25
DZ-EPDM50	DZ-EPDM50B	DZ-CRM50B	DZ-SM50R	50,5	26,0 - 35,0	1,3 - 5,0	58,0	30,0	25
DZ-EPDM63	DZ-EPDM63B	DZ-CRM63B	DZ-SM63R	63,5	35,0 - 40,0	1,3 - 5,0	69,0	45,0	10
DZ-EPDM80	DZ-EPDM80B	DZ-CRM80B	DZ-SM80R	80,5	40,0 - 60,0	1,3 - 5,0	90,0	60,0	10

Art. Nr. Art. No. TPE RAL7042	Art. Nr. Art. No. TPE RAL7035	Art. Nr. Art. No. TPE RAL9011	LD mm	KD mm	WS mm	B mm	H mm	VPE Stk. Unit pcs.
DZ-TPEM12	DZ-TPEM12G	DZ-TPEM12B	12,5	3,0 - 5,0	1,0 - 5,0	19,0	20,9	100
DZ-TPEM16	DZ-TPEM16G	DZ-TPEM16B	16,5	5,0 - 7,0	1,0 - 5,0	23,0	21,6	100
DZ-TPEM20	DZ-TPEM20G	DZ-TPEM20B	20,5	7,0 - 10,0	1,0 - 5,0	27,0	24,3	100
DZ-TPEM25	DZ-TPEM25G	DZ-TPEM25B	25,5	10,0 - 14,0	1,0 - 5,0	32,0	24,8	100
DZ-TPEM32	DZ-TPEM32G	DZ-TPEM32B	32,5	14,0 - 20,0	1,0 - 5,0	39,0	28,1	50
DZ-TPEM40	DZ-TPEM40G	DZ-TPEM40B	40,5	20,0 - 26,0	1,0 - 5,0	46,0	31,8	25
DZ-TPEM50	DZ-TPEM50G	DZ-TPEM50B	50,5	26,0 - 35,0	1,0 - 5,0	57,0	39,7	25
DZ-TPEM63	DZ-TPEM63G	DZ-TPEM63B	63,5	30,0 - 45,0	1,0 - 5,0	69,0	59,6	10
DZ-TPEM80	DZ-TPEM80G	DZ-TPEM80B	80,5	40,0 - 60,0	1,2 - 5,2	89,0	78,2	10

Technische Zeichnung Engineering drawing



Befestigungsschelle

TYP BSN

Material: Polyamid 6.6
Temperaturbereich: max. +85°C
Brennbarkeit: UL 94 V2
Farbe: schwarz
 natur

Verwendung:

Zur Befestigung von Kabeln, Röhren und Schläuchen, zum Erreichen einer leichten Zugentlastung, Befestigung mittels Schraube oder Niete.

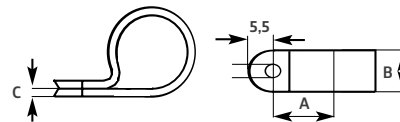
Fixing Clamp

TYPE BSN

Material: Polyamid 6.6
Temperature range: max. +85°C
Flammability: UL 94 V2
Colour: black
 nature

Applications:

For fastening of cables, pipes and conduits, can be used to achieve a light strain relief, to be fixed with a screw or a rivet.



Art. Nr. Schwarz Art. No. black	Art.Nr./Natur nature	Bündel Ø mm Bundle Ø mm	A mm	B mm	C mm	D mm	VE/St. PU/pcs.
BSN420010	BSN42001	3,2	5,2	8,7	9,5	1,3	100
BSN420012	BSN420011	4,8	4,3	9,6	9,5	1,3	100
BSN420020	BSN42002	4,8	5,2	9,6	9,5	1,3	100
BSN420022	BSN420021	6,4	4,3	10,7	9,5	1,3	100
BSN420030	BSN42003	6,4	5,2	10,7	9,5	1,3	100
BSN420032	BSN420031	7,9	4,3	11,2	9,5	1,3	100
BSN420040	BSN42004	7,9	5,2	11,2	9,5	1,3	100
BSN420042	BSN420041	9,5	4,3	11,8	9,5	1,3	100
BSN420050	BSN42005	9,5	5,2	11,8	9,5	1,3	100
BSN420060	BSN42006	11,1	5,2	12,7	9,5	1,3	100
BSN420070	BSN42007	12,7	5,2	13,5	9,5	1,3	100
BSN420090	BSN42009	4,4	5,2	10,7	12,7	1,3	100
BSN420100	BSN42010	6,4	5,2	11,1	12,7	1,3	100
BSN420110	BSN42011	7,9	5,2	12,0	12,7	1,3	100

Art. Nr. Schwarz Art. No. black	Art.Nr./Natur nature	Bündel Ø mm Bundle Ø mm	A mm	B mm	C mm	D mm	VE/St. PU/pcs.
BSN420120	BSN42012	9,5	5,2	12,7	12,7	1,3	100
BSN420130	BSN42013	11,1	5,2	13,5	12,7	1,3	100
BSN420140	BSN42014	12,7	5,2	14,1	12,7	1,3	100
BSN420150	BSN42015	14,3	5,2	15,3	12,7	1,3	100
BSN420160	BSN42016	15,9	5,2	15,9	12,7	1,3	100
BSN420170	BSN42017	17,4	5,2	16,9	12,7	1,3	100
BSN420180	BSN42018	19,1	5,2	17,8	12,7	1,3	100
BSN420190	BSN42019	20,6	5,2	19,9	12,7	1,3	100
BSN420210	BSN42021	25,4	5,2	20,9	12,7	1,5	100
BSN420220	BSN42022	28,6	5,2	23,8	12,7	1,3	100
BSN420240	BSN42024	31,8	5,2	24,9	12,7	1,3	100
BSN420250	BSN42025	34,9	5,2	-	12,7	1,5	100
BSN420260	BSN42026	38,1	5,2	-	12,7	1,5	100

Abdeckkappe

TYP LDP

Material: Polyamid 6.6
Temperaturbereich: max. +105°C
Brennbarkeit: UL 94 V2
Farbe: schwarz (RAL 9005)
 auch in weiß verfügbar

Eigenschaften:

Einfach, schnell und sicher per Hand zu montieren. Nicht von außen entfernbar.

Nennmaß:

Montage in etwas größere Montagelöcher ist möglich, auch als Entlüftungskappe (TYP LVP) verfügbar.

Cover Plug

TYPE LDP

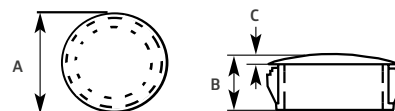
Material: Polyamid 6.6
Temperature range: max. +105°C
Flammability: UL 94 V2
Colour: black (RAL 9005)
 also available in white

Properties:

Fast and easy manual assembly, external removal impossible.

Nominal width:

Assembling in slightly larger mounting holes possible, Iso usable as ventcaps.



Art. Nr. Schwarz Art. No. Black	M-loch mm Hole mm	max. W-Stärke mm max. wall thick. mm	A mm	B mm	C mm	VE/St. PU/pcs.
LDP26321	4,7	1,6	6,4	5,9	1,1	100
LDP26322	6,4	1,6	7,9	7,9	1,6	100
LDP26323	7,9	1,6	9,5	7,9	1,6	100
LDP26324	9,5	3,2	11,9	10,3	1,6	100
LDP26325	11,1	3,2	13,5	10,3	1,6	100
LDP26326	12,7	3,2	14,7	10,3	1,6	100
LDP26327	14,3	3,2	16,7	10,3	1,6	100
LDP26328	15,9	3,2	18,2	10,3	1,6	100
LDP26329	17,4	3,2	19,8	10,3	1,6	100
LDP26330	19,1	3,2	23,4	10,3	1,6	100
LDP26331	20,6	3,2	22,6	10,3	1,6	100
LDP26332	22,2	3,2	25,8	11,5	1,6	100
LDP26334	25,4	3,2	30,6	11,5	1,6	100
LDP26336	28,0	3,2	30,9	11,5	1,6	100

Art. Nr. Schwarz Art. No. Black	M-loch mm Hole mm	max. W-Stärke mm max. wall thick. mm	A mm	B mm	C mm	VE/St. PU/pcs.
LDP26337	30,1	3,2	33,3	11,5	1,6	100
LDP26338	31,8	3,2	34,9	11,5	1,6	100
LDP26339	34,9	3,2	38,1	11,5	1,6	100
LDP26340	38,1	3,2	42,4	11,5	1,6	100
LDP26341	44,5	3,2	48,4	11,5	1,6	100
LDP26342	50,8	3,2	55,1	12,2	2,3	100
LDP26414	53,2	6,4	59,5	19,1	2,8	100
LDP26415	57,2	6,4	61,5	19,1	2,8	100
LDP26416	63,5	6,4	69,0	19,1	2,8	100
LDP26417	76,2	6,4	80,5	19,1	2,8	100
LDP26418	85,7	6,4	92,9	19,1	2,8	100
LDP26419	88,9	6,4	92,9	19,1	2,8	100
LDP26420	101,6	6,4	105,6	19,1	2,8	100

Durchführungstülle

TYP DG-NEO

Material: Neopren
Temperaturbereich: -30°C bis +90°C
Brennbarkeit: UL 94 V0
Zugfestigkeit: 7 MPa
Reißdehnung: > 400 %
Durchschlagfestigk.: > 13 kV/mm
Farbe: schwarz
 grau (ähnl. RAL 7037)

Einsatzbereiche:

Verschluss von Bohrungen an Gehäusen und Schaltschränken, Durchführung von Kabeln und Leitungen.

Grommet

TYPE DG-NEO

Material: Neoprene
Temperature range: -30°C up to +90°C
Flammability: UL 94 V0
Tensile strength: 7 MPa
Ultimate elongation: > 400 %
Dielectric strength: > 13 kV/mm
Colour: black
 grey (simil. to RAL 7037)

Applications:

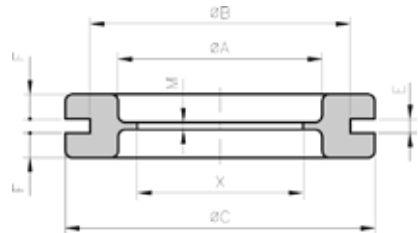
To close holes/bores etc. in boxes and cabinets, for feeding through cables and wires.



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	Loch Ø M Hole Ø M	Ø A mm	Ø B mm	Ø C mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28051	-	M16	9,0	16,0	20,0	2,0	2,5	2,5	1,0	100
DG28052	DG280520	M20	13,5	20,0	25,0	2,0	2,5	2,5	1,0	100
DG28053	DG280530	M25	18,5	25,0	30,5	2,0	2,5	2,5	1,0	100
DG28054	DG280540	M32	25,0	32,0	39,0	2,0	3,0	3,0	1,0	100
DG28055	-	M40	31,0	40,0	47,0	2,5	3,8	3,8	1,0	50
DG28056	-	M50	39,0	50,0	57,0	2,5	3,8	3,8	1,0	50
DG28057	-	M63	53,0	63,0	75,0	2,5	3,8	3,8	1,0	50
DG28059	-	M68	53,0	68,0	75,0	2,5	3,8	3,8	1,5	50
DG28058	-	M75	65,0	75,0	87,0	2,5	3,8	3,8	1,0	50

Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	Loch Ø PG Hole Ø PG	Ø A mm	Ø B mm	Ø C mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28020	-	PG 9	9,0	15,5	20,0	1,0	3,5	2,5	1,0	100
DG28021	DG280210	PG 9	9,0	15,5	20,0	2,0	2,5	2,5	1,0	100
DG28022	DG280220	PG 11	11,0	18,5	23,0	2,0	2,5	2,5	1,0	100
DG28023	DG280230	PG 13,5	13,5	20,5	25,0	2,0	2,5	2,5	1,0	100
DG28024	DG280240	PG 16	16,0	22,5	27,5	2,0	2,5	2,5	1,0	100
DG28025	DG280250	PG 21	21,0	28,0	35,0	2,0	3,0	3,0	1,0	100
DG28026	-	PG 29	29,0	37,0	44,0	2,0	3,5	3,5	1,0	50
DG28027	-	PG 36	36,0	47,0	54,0	2,5	3,8	3,8	1,0	50
DG28028	-	PG 48	48,0	60,0	68,0	2,5	3,8	3,8	1,0	50
DG28029	-	-	53,0	64,0	75,0	2,5	3,8	3,8	1,5	50
DG28030	-	-	69,0	79,0	90,0	2,5	3,8	3,8	1,5	50

Technische Zeichnung
Engineering drawing



Durchführungstülle

TYP DG-TPE

Material: Thermoplastisches Elastomer
Temperaturbereich: -50°C bis +125°C
Brennbarkeit: UL 94 HB
Farbe: schwarz
 grau (ähnl. RAL 7035)
Zugfestigkeit: > 4,5 MPa
Reißdehnung: > 300 %
Durchschlagfestigk.: 35 kV/mm
Härte/Shore A: 55° ± 5°

Einsatzbereich / Eigenschaften:

Verschluss von Bohrungen an Gehäusen und Schaltschränken, Durchführung von Kabeln und Leitungen.

Grommet

TYPE DG-TPE

Material: Thermoplastic Elastomer
Temperature range: -50°C up to +125°C
Flammability: UL 94 HB
Colour: black
 grey (sim. to RAL 7035)
Tensile strength: > 4,5 MPa
Ultimate elongation: > 300 %
Dielectric strength: 35 kV/mm
Hardness/Shore: 55° ± 5°

Application / Properties:

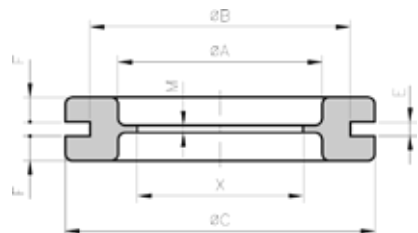
To close holes/bores etc. in boxes and cabinets, for feeding through cables and wires.



Art. Nr. Schwarz Art. No. black	Art. Nr. Grau Art. No. grey	Loch Ø M Hole Ø M	Ø A mm	Ø B mm	Ø C1 mm	Ø C2 mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28137	DG281370	M20	13,5	20,0	24,0	24,0	2,0	2,5	2,5	1,0	100
DG28138	DG281380	M25	21,0	25,0	34,5	31,5	2,0	3,0	3,0	1,0	100
DG28139	DG281390	M32	29,0	32,0	43,5	39,0	2,2	3,7	3,7	1,3	100

Art. Nr. Schwarz Art. No. Black	Art. Nr. Grau Art. No. Grey	Loch Ø M Hole Ø M	Ø A mm	Ø B mm	Ø C1 mm	Ø C2 mm	E mm	F1 mm	F2 mm	M mm	VE/St. PU/pcs.
DG28135	DG281350	PG 9	9,0	15,0	20,0	18,0	2,0	2,5	2,5	1,0	100
DG28136	DG281360	PG 11	11,0	18,0	22,5	21,5	2,0	2,5	2,5	1,0	100
DG28007	DG280070	PG 13,5	13,5	20,0	24,0	24,0	2,0	2,5	2,5	1,0	100
DG28008	DG280080	PG 16	16,0	22,0	27,5	26,0	2,0	2,7	2,7	1,0	100
DG28009	DG280090	PG 21	21,0	28,0	34,5	34,5	2,0	3,0	3,0	1,0	100
DG28010	-	PG 29	29,0	37,0	43,5	43,5	2,2	3,7	3,7	1,3	50
DG28037	-	PG 36	35,5	47,0	52,5	52,5	2,5	3,8	3,8	1,3	50
DG28038	-	PG 48	47,0	59,0	67,0	67,0	2,5	4,0	4,0	1,5	50

Technische Zeichnung
Engineering drawing



Weitere Ausführungen sind auf Anfrage erhältlich: z.B. Sondergrößen, Sonderfarben, andere Materialien (PVC, Silikon, EPDM), als Knickschutzstülle, Durchführungstülle mit Zugentlastung, kreuzgeschlitzt oder durchgehendem Loch.

More versions available on request: special sizes, colours, materials (PVC, silicone, EPDM), with bend protection, strain relief, crossed slot or open.

O-Ring

TYP ORP

Material: Perbunan (NBR)
Temperaturbereich: -25°C bis +120°C
Ölbeständigkeit: gut
Farbe: schwarz

Auch in Neoprene, Silikon und Viton von M12 bis M63 und PG7 bis PG48 lieferbar.

O-Ring

TYPE ORP

Material: Perbunan (NBR)
Temperature range: -25°C up to +120°C
Oil resistance: good
Colour: black

Also available in Neoprene, Silicone and Viton from M12 to M63 and PG7 to PG48.

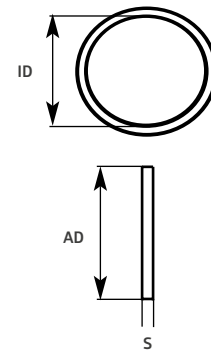


Art. Nr. Art. No.	für Gewinde for thread	ID mm	Stärke S mm Thickness S mm	VE/St. PU/pcs.
ORPM12	12x1,5	10,0	1,5	100
ORPM16	16x1,5	12,0	1,5	100
ORPM20	20x1,5	17,0	1,8	100
ORPM25	25x1,5	22,0	2,0	100
ORPM32	32x1,5	29,0	2,0	50
ORPM40	40x1,5	35,0	2,0	50
ORPM50	50x1,5	43,0	2,0	50
ORPM63	63x1,5	55,0	2,0	50

Art. Nr. Art. No.	für Gewinde for thread	ID mm	Stärke S mm Thickness S mm	VE/St. PU/pcs.
ORPP07	PG 7 (1/4")	10,0	1,5	100
ORPP09	PG 9 (3/8")	12,0	1,5	100
ORPP11	PG 11	16,0	1,5	100
ORPP13	PG 13,5 (1/2")	17,0	1,8	100
ORPP16	PG 16 (5/8")	18,0	1,5	100
ORPP21	PG 21	26,0	2,0	50
ORPP29	PG 29 (1 1/8")	33,0	2,0	50
ORPP36	PG 36 (1 1/2")	43,0	2,0	50
ORPP42	PG 42 (1 3/4")	50,0	2,0	50
ORPP48	PG 48 (2")	55,0	2,0	50



Technische Zeichnung
Engineering drawing



Flachdichtung

TYP GAM / G / GRA

Material: Guarnital (G)
Mineralfaser (GAM)
Kupfer (GR)
Temperaturbereich: G -30°C bis +120°C
GAM -45°C bis +200°C
GR -45°C bis +150°C

Sealing gaskets

TYPE GAM / G / GRA

Material: Guarnital (G)
mineral fiber (GAM)
copper (GR)
Temperature range: G -30°C bis +120°C
GAM -45°C bis +200°C
GR -45°C bis +150°C



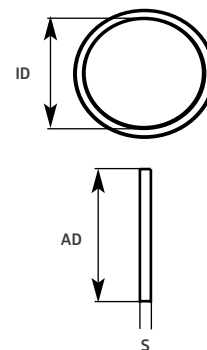
Guarnital Guarnital	Mineralfaser mineral fibre	Kupfer copper.	für Gewinde for thread	ID mm	AD mm	S mm	VE/St. PU/pcs.
GMG16	GMA16	GRM16	M16	16,3	22	2	100
GMG24	GAM24	GRA24	M20	20,3	26	2	100
GMG25	GMA25	GRM25	M25	25,3	32	2	50
GMG32	GMA32	GRM32	M32	32,3	39	2	50
GMG40	GMA40	GRM40	M40	40,3	50	2	20
GMG50	GMA50	GRM50	M50	50,3	60	2	20
GMG63	GMA63	GRM63	M63	63,3	73	2	10



Mineralfaser mineral fibre	Kupfer copper.	Guarnital Guarnital	für Gewinde for thread	ID mm	AD mm	S mm	VE/St. PU/pcs.
G01	GAM01	GRA01	PG7	13,3	18	2	100
G22	GAM22	GRA22	PG9	15,2	20	2	100
G23	GAM23	GRA23	PG11	19	23	2	100
G24	GAM24	GRA24	PG13,5	20,5	26	2	100
G25	GAM25	GRA25	PG16	22,7	28	2	50
G26	GAM26	GRA26	PG21	28,5	35	2,5	50
G27	GAM27	GRA27	PG29	37,2	44,5	2,5	50
G07	GAM07	GRA07	PG36	48	58	2,5	25
G29	GAM29	GRA29	PG42	54,3	63	2,5	10
G08	GAM08	GRA08	PG48	60	70	2,5	10



Technische Zeichnung
Engineering drawing



Kabelbinder

Material: Polyamid 6.6
Farbe: schwarz / natur
Dichte: 0,9 mm
Temperatur: -40° bis +85°C
kurzzeitig + 110°C
Flammschutz: UL94 V2

Eigenschaften:

Schwarze Ausführung ist UV-beständig, auch beständig gegen Alkalien, Chloratlösungsmittel, Öle und Schmierfette.

Cable Tie

Material: Polyamide 6.6
Colour: black / nature
Frequency: 0,9 mm
Temperature: -40°C up to +85°C
short-time +110°C
Flammability: UL94 V2

Properties:

Black version is UV-resistant, also resistant against alkali, non-polar solvents, oils and grease.



Art. Nr. Schwarz Art. No. black	Art. Nr. Natur Art. No. nature	Länge mm	Breite mm	Büdel Ø mm Bundle Ø mm	Zugfestigkeit/kg Tensile strength	VE/St. PU/pcs.
32141	32101	75,0	2,2	15,0	6,0	1000
32142	32102	98,0	2,5	21,0	8,2	1000
32143	32103	135,0	2,6	32,0	8,2	1000
32144	32104	200,0	2,6	52,0	8,2	1000
32145	32105	140,0	3,6	35,0	13,0	1000
32146	32106	290,0	3,6	80,0	13,0	500
32147	32107	160,0	4,5	40,0	20,0	1000
32148	32108	178,0	4,8	45,0	20,0	1000
32149	32109	200,0	4,8	50,0	22,0	1000
32150	32110	250,0	4,8	68,0	22,0	100
32151	32111	290,0	4,8	79,0	22,0	100
32152	32112	360,0	4,8	103,0	22,0	100
32153	32113	120,0	7,8	25,0	22,0	100
32154	32114	180,0	7,8	45,0	55,0	100
32155	32115	240,0	7,8	63,0	55,0	100
32156	32116	300,0	7,8	80,0	55,0	100
32157	32117	365,0	7,8	100,0	55,0	100
32158	32118	450,0	7,8	130,0	55,0	100
32159	32119	540,0	7,8	158,0	55,0	100
32160	32120	750,0	7,8	200,0	55,0	100
32161	32121	780,0	9,0	233,0	77,0	100
32162	32122	225,0	12,6	57,0	110,0	50
32163	32123	500,0	12,6	143,0	110,0	50
32164	32124	720,0	12,6	213,0	110,0	50
32165	32125	850,0	12,6	255,0	110,0	50
32166	32126	1000,0	12,6	302,0	110,0	50



Befestigungsteil für Kabelbinder

TYP LMP-A / LMP-B

Material: ABS (Terluran)
Temperaturbereich: -40° bis +60°C
**Empfohlene
Bearbeitungstemp.:** +15° bis +40°C
Farbe: natur
schwarz

Anwendung:

Befestigungsteil für Kabelbinder, zum Kleben und/oder Schrauben.

Fastening Element for Cable Ties

TYPE LMP-A / LMP-B

Material: ABS (Terluran)
Temperature range: -40° up to +60°C
**Recommended
processing temp.:** +15° up to +40°C
Colour: nature
black

Applications:

Fastening element for cable ties, to be fixed by glueing or by screwing.



LMP-A: 2-seitige Kabelbinderführung LMP-A: 2-sided fastening insertion

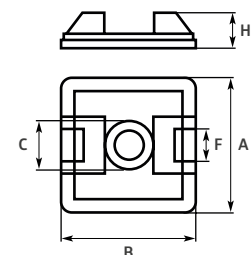
Art. Nr. Schwarz Art. No. black	Art. Nr. Natur Art. No. nature	Typ Type	max. Breite Kabelb. max. width cable ties	A mm	B mm	C mm	F mm	H mm	VE/St. PU/pcs.
32716	32711	LMP-A5426/5701	3,6 mm	19,0	19,0	4,2	4,0	5,0	100
32717	32712	LMP-A5426/5702	4,8 mm	27,0	27,0	4,2	6,0	7,4	100

LMP-B: 4-seitige Kabelbinderführung LMP-B: 4-sided fastening insertion

Art. Nr. Schwarz Art. No. black	Art. Nr. Natur Art. No. nature	Typ Type	max. Breite Kabelb. max. width cable ties	A mm	B mm	C mm	F mm	H mm	VE/St. PU/pcs.
32718	32713	LMP-B 5469	3,6 mm	19,0	19,0	4,1	4,0	5,0	100
32719	32714	LMP-B 5475	4,8 mm	27,0	27,0	4,8	6,0	6,5	100



Technische Zeichnung
Engineering drawing



Kabelverschraubung

TYP M-LF / X-LF

Material: Messing vernickelt,
Edelstahl 1.4305

Klemmeinsatz: Polyamid 6

Schutzart: IP68 / IP69K

Temperaturbereich: -40°C bis +100°C

Konstruktion:

Messing oder Edelstahl Kabelverschraubung mit integrierter Zugentlastung.

Cable Gland

TYPE M-LF / X-LF

Material: Nickel-plated brass
Stainless steel AISI 304

Execution: Polyamide 6

Protection rating: IP68 / IP69K

Temperature range: -40°C up to +100°C

Construction:

Brass or stainless steel cable gland with integrated strain relief.



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
M-LFM1205	M12	2,0 - 5,0	14	5,0	25,0	100
M-LFM1206	M12	3,0 - 6,5	14	5,0	25,0	100
M-LFM606	M16	2,0 - 6,0	17	7,0	33,0	50
M-LFM1608	M16	3,0 - 8,0	17	5,5	28,0	100
M-LFM1610	M16	4,5 - 10,0	17	6,0	28,0	100
M-LFM2009	M20	5,0 - 9,0	22	6,0	30,0	50
M-LFM2012	M20	6,0 - 12,0	22	6,0	30,0	50
M-LFM2013	M20	8,0 - 13,0	22	6,0	30,0	50
M-LFM2512	M25	7,0 - 12,0	24	8,0	42,0	25
M-LFM2514	M25	8,0 - 14,0	30	7,0	35,0	25
M-LFM2517	M25	11,0 - 18,0	30	7,0	35,0	25
M-LFM3216	M32	9,0 - 16,0	30	9,0	48,0	25
M-LFM3218	M32	13,0 - 19,0	34	8,0	35,0	10
M-LFM3221	M32	15,0 - 21,0	34	8,0	38,0	10
M-LFM4020	M40	12,0 - 20,0	44	8,0	43,0	10
M-LFM4023	M40	16,0 - 23,0	44	8,0	43,0	10
M-LFM4025	M40	18,0 - 25,0	40	9,0	53,0	20
M-LFM4028	M40	19,0 - 28,0	44	8,0	52,0	10
M-LFM5026	M50	20,0 - 26,0	54	9,0	52,0	5
M-LFM5029	M50	21,0 - 29,0	54	9,0	52,0	5
M-LFM5032	M50	22,0 - 32,0	50	9,0	57,0	15
M-LFM5035	M50	25,0 - 35,0	54	9,0	52,0	5
M-LFM5038	M50	27,0 - 38,0	58	9,0	61,0	12
M-LFM6338	M63	27,0 - 38,0	66	10,0	54,0	5
M-LFM6342	M63	32,0 - 42,0	64	14,0	65,0	12
M-LFM6344	M63	34,0 - 44,0	64	14,0	65,0	12
M-LFM6348	M63	39,0 - 48,0	66	10,0	54,0	5



GEWINDEART METRISCH VA

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
X-LFM1205	M12	1,0 - 5,0	14	6,0	24,0	1
X-LFM1206	M12	2,5 - 6,5	14	6,0	24,0	1
X-LFM1607	M16	3,0 - 7,0	17	6,5	28,0	1
X-LFM1610	M16	4,0 - 10,0	17	6,0	28,0	50
X-LFM2010	M20	5,0 - 10,0	22	7,5	31,0	1
X-LFM2013	M20	6,0 - 13,0	22	7,5	31,0	1
X-LFM2014	M20	8,0 - 14,0	22	6,0	30,0	50
X-LFM2513	M25	7,0 - 13,0	27	7,5	34,0	1
X-LFM2517	M25	9,0 - 17,0	27	7,5	34,0	1
X-LFM2519	M25	12,0 - 19,0	30	7,0	35,0	25
X-LFM3215	M32	8,0 - 15,0	36	8,0	35,0	1
X-LFM3221	M32	11,0 - 21,0	36	8,0	35,0	1
X-LFM3222	M32	15,0 - 22,0	34	8,0	38,0	25
X-LFM4023	M40	15,0 - 23,0	46	8,0	39,0	1
X-LFM4028	M40	22,0 - 28,0	44	8,0	43,0	10
X-LFM5029	M50	20,0 - 29,0	55	10,0	48,0	1
X-LFM5035	M50	24,0 - 35,0	55	10,0	48,0	1
X-LFM5036	M50	28,0 - 36,0	54	9,0	52,0	5
X-LFM6342	M63	28,0 - 42,0	70	10,0	50,0	1
X-LFM6348	M63	32,0 - 48,0	70	10,0	50,0	1
X-LFM6349	M63	34,0 - 49,0	66	10	58,0	5

Auch mit PVDF - Klemmeinsatz
(-35°C bis +150°C), PG- oder Zoll-
Gewinde lieferbar.

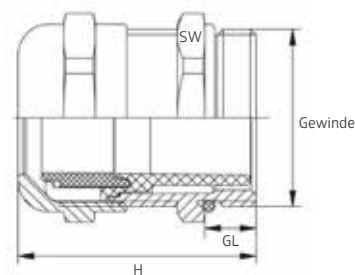
Also available with PVDF - clamping
insert (-35°C up to +150°C) with PG-
or NPT- thread.



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
M-LFP0705	PG07	2,0 - 5,0	14	6,0	28,0	50
M-LFP0706	PG07	3,0 - 6,5	14	6,0	28,0	50
M-LFP0906	PG09	2,0 - 6,0	17	6,0	28,0	50
M-LFP0908	PG09	4,0 - 8,0	17	6,0	28,0	50
M-LFP1107	PG11	3,0 - 7,0	20	6,0	31,0	50
M-LFP1110	PG11	5,0 - 10,0	20	6,0	31,0	50
M-LFP1309	PG13,5	5,0 - 9,0	22	6,5	31,0	50
M-LFP1312	PG13,5	6,0 - 12,0	22	6,5	31,0	50
M-LFP1612	PG16	7,0 - 12,0	24	6,5	34,0	25
M-LFP1614	PG16	10,0 - 14,0	24	6,5	34,0	25
M-LFP2116	PG21	9,0 - 16,0	30	7,0	39,0	25
M-LFP2118	PG21	13,0 - 18,0	30	7,0	39,0	25
M-LFP2920	PG29	12,0 - 20,0	40	8,0	47,0	20
M-LFP2925	PG29	18,0 - 25,0	40	8,0	47,0	20
M-LFP3626	PG36	20,0 - 26,0	50	10,0	57,0	15
M-LFP3632	PG36	22,0 - 32,0	50	10,0	57,0	15
M-LFP4231	PG42	25,0 - 31,0	58	12,0	60,0	12
M-LFP4238	PG42	30,0 - 38,0	58	12,0	60,0	12
M-LFP4835	PG48	29,0 - 35,0	64	14,0	63,0	12
M-LFP4844	PG48	34,0 - 44,0	64	14,0	63,0	12

Technische Zeichnung Engineering drawing



Kabelverschraubung

TYP M-LFKV-EMV

Material: Messing vernickelt
Klemmkäfig: Polyamid 6
Schutzart: IP68
Temperaturbereich: -40°C bis +100°C

Anwendung:

Für Kabel und Leitungen mit Schrimmung, hohe Montagefreundlichkeit, mit Kontaktfedern.

Cable Gland

TYPE M-LFKV-EMC

Material: nickel-plated brass
Clamp cage: Polyamide 6
Protection rating: IP68
Temperature range: -40°C up to +100°C

Applications:

For cables with shielding, easy assembly, with contact springs.



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
M-LFKVM1206EMV	M12	3,0 - 6,5	14	6,0	28,0	50
M-LFKVM1610EMV	M16	4,5 - 10,0	20	7,0	35,0	50
M-LFKVM2012EMV	M20	6,0 - 12,0	22	8,0	35,0	50
M-LFKVM2517EMV	M25	11,0 - 17,0	27	8,0	40,0	25
M-LFKVM3221EMV	M32	15,0 - 21,0	34	8,0	45,0	20
M-LFKVM4028EMV	M40	19,0 - 28,0	43	9,0	54,0	20
M-LFKVM5038EMV	M50	27,0 - 38,0	58	9,0	61,0	12
M-LFKVM6344EMV	M63	34,0 - 44,0	64	14,0	69,0	5

Auch mit langem Anschlussgewinde lieferbar.
 Also available with long connecting thread.



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
M-LFKVP0706EMV	PG07	3,0 - 6,5	14	6,0	27,0	50
M-LFKVP0908EMV	PG09	4,0 - 8,0	17	6,0	29,0	50
M-LFKVP1110EMV	PG11	5,0 - 10,0	20	6,0	30,0	50
M-LFKVP1312EMV	PG13,5	6,0 - 12,0	22	6,5	30,0	50
M-LFKVP1614EMV	PG16	10,0 - 14,0	24	6,5	34,0	25
M-LFKVP2118EMV	PG21	13,0 - 18,0	30	7,5	39,0	25
M-LFKVP2925EMV	PG29	18,0 - 25,0	40	8,0	47,0	20
M-LFKVP3632EMV	PG36	22,0 - 32,0	50	9,0	57,0	10
M-LFKVP4238EMV	PG42	30,0 - 38,0	58	12,0	60,0	10
M-LFKVP4844EMV	PG48	34,0 - 44,0	64	14,0	65,0	5

Kabelverschraubung

TYP M-LHSK-PVDF

Material: Messing vernickelt
Klemmeinsatz: PVDF
Schutzart: IP68 / IP69K
Temperaturbereich: -35°C bis +150°C

Anwendung:

Für hohe Temperaturen geeignet.
 Hervorragend beständig gegenüber widrigen Witterungsbedingungen.

Cable Gland

TYPE M-LHSK-PVDF

Material: nickel-plated brass
Clamping insert: PVDF
Protection rating: IP68 / IP69K
Temperature range: -35°C up to +150°C

Applications:

For high temperatures.
 Excellent resistance against atmospheric attack.



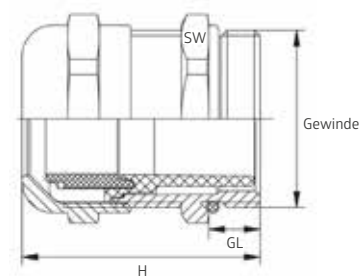
GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
M-LHSKM1206	M12	3,0 - 6,5	14	6,5	19,0	50
M-LHSKM1205	M12	2,0 - 5,0	14	6,5	19,0	50
M-LHSKM1608	M16	4,0 - 8,0	17	6,0	21,0	50
M-LHSKM1606	M16	2,0 - 6,0	17	6,0	21,0	50
M-LHSKM1610	M16	5,0 - 10,0	20	6,0	22,0	50
M-LHSKM2014	M20	10,0 - 14,0	24	6,0	24,0	50
M-LHSKM2012	M20	6,0 - 12,0	22	6,0	23,0	50
M-LHSKM2009	M20	5,0 - 9,0	22	6,0	23,0	50
M-LHSKM2518	M25	13,0 - 18,0	30	7,0	26,0	25
M-LHSKM2516	M25	9,0 - 16,0	30	7,0	26,0	25
M-LHSKM3225	M32	18,0 - 25,0	40	8,0	31,0	25
M-LHSKM3220	M32	13,0 - 20,0	40	8,0	31,0	25
M-LHSKM4032	M40	22,0 - 32,0	50	8,0	37,0	10
M-LHSKM4026	M40	20,0 - 26,0	50	8,0	37,0	10

Auf Anfrage sind andere Dichtungen möglich (z.B. Silikon). Auch mit PG-, PG-Lang- und Zoll-Gewinde lieferbar. In Edelstahl 1.4305 und 1.4404 lieferbar.

Other sealings are available on request (e.g. silicone). Also available with PG-, PG-long- and NPT- thread. Available in stainless steel AISI 303 and AISI 316L.

Technische Zeichnung Engineering drawing



Kabelverschraubung TYP M-WADI-PRO

Material: Messing vernickelt
Klemmeinsatz: TPE / NBR
Schutzart: IP68
Temperaturbereich: -40°C bis +100°C

Cable Gland TYPE M-WADI-PRO

Material: Nickel-plated brass
Clamping insert: TPE / NBR
Protection rating: IP68
Temperature range: -40°C up to +100°C



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	H mm	VPE Stk. Unit pcs.
M-WADIM0602	M6	2,0 - 2,5	8	5,0	12	50
M-WADIM0603	M6	2,5 - 3,0	8	5,0	12	50
M-WADIM0604	M6	3,0 - 3,5	8	5,0	12	50
M-WADIM0803	M8	2,5 - 3,5	11	5,0	14	50
M-WADIM0805	M8	3,5 - 5,0	11	5,0	14	50
M-WADIM1004	M10	3,0 - 4,0	13	5,0	15	50
M-WADIM1006	M10	4,0 - 6,0	13	5,0	15	50
M-WADIM1205	M12	3,5 - 5,0	15	5,0	17	50
M-WADIM1206	M12	5,0 - 6,5	15	5,0	17	50
M-WADIM1208	M12	6,5 - 8,0	15	5,0	17	50
M-WADIM1604	M16	3,5 - 4,5	18	5,0	20	50
M-WADIM1606	M16	4,5 - 6,0	18	5,0	20	50
M-WADIM1608	M16	6,0 - 8,0	18	5,0	20	50
M-WADIM1610	M16	8,0 - 10,5	18	5,0	22	50
M-WADIM2008	M20	6,0 - 8,0	24	6,0	21	50
M-WADIM2010	M20	8,0 - 10,5	24	6,0	21	50
M-WADIM2015	M20	11,0 - 15,0	24	6,0	23	50
M-WADIM2512	M25	9,5 - 12,5	30	7,0	25	25
M-WADIM2516	M25	12,5 - 16,0	30	7,0	25	25
M-WADIM2520	M25	16,0 - 20,5	30	7,0	28	25
M-WADIM3217	M32	14,0 - 17,0	36	8,0	28	25
M-WADIM3221	M32	17,0 - 21,0	36	8,0	28	25
M-WADIM3225	M32	21,0 - 25,5	36	8,0	28	25
M-WADIM4024	M40	20,0 - 24,0	46	8,0	31	10
M-WADIM4028	M40	24,0 - 28,5	46	8,0	31	10
M-WADIM4033	M40	28,5 - 33,0	46	8,0	31	10
M-WADIM5033	M50	29,0 - 33,0	55	9,0	34	10
M-WADIM5037	M50	33,0 - 37,0	55	9,0	34	10
M-WADIM5042	M50	37,0 - 42,0	55	9,0	34	10
M-WADIM6340	M63	35,0 - 40,0	70	10,0	37	5
M-WADIM6346	M63	40,0 - 46,0	70	10,0	37	5
M-WADIM6352	M63	46,0 - 52,0	70	10,0	37	5
M-WADIM7550	M75	45,0 - 50,0	80	11,0	38	1
M-WADIM7556	M75	50,0 - 56,0	80	11,0	38	1
M-WADIM7563	M75	56,0 - 63,0	80	11,0	38	1
M-WADIM8570	M85	63,0 - 70,0	95	18,0	41	1
M-WADIM9575	M95	68,0 - 75,0	110	20,0	51	1
M-WADIM9580	M95	73,0 - 80,0	110	20,0	51	1
M-WADIM10085	M100	78,0 - 85,0	115	22,0	51	1
M-WADIM10590	M105	83,0 - 90,0	120	22,0	52	1
M-WADIM11595	M115	88,0 - 95,0	125	22,0	52	1



GEWINDEART PG

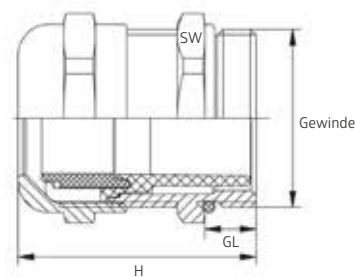
Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
M-WADIP0705	PG7	3,5 - 5,0	15	6,0	50
M-WADIP0706	PG7	5,0 - 6,5	15	6,0	50
M-WADIP0708	PG7	6,5 - 8,0	15	6,0	50
M-WADIP0904	PG9	3,5 - 4,5	18	6,0	50
M-WADIP0906	PG9	4,5 - 6,0	18	6,0	50
M-WADIP0908	PG9	6,0 - 8,0	18	6,0	50
M-WADIP0910	PG9	8,0 - 10,5	18	6,0	50
M-WADIP1105	PG11	4,0 - 5,5	21	6,0	50
M-WADIP1108	PG11	5,5 - 8,5	21	6,0	50
M-WADIP1112	PG11	8,5 - 12,0	21	6,0	50
M-WADIP1308	PG13,5	6,0 - 8,0	24	6,0	50
M-WADIP1311	PG13,5	8,0 - 11,0	24	6,0	50
M-WADIP1315	PG13,5	11,0 - 15,0	24	6,0	50
M-WADIP1608	PG16	6,0 - 8,0	24	6,0	50
M-WADIP1611	PG16	8,0 - 11,0	24	6,0	50
M-WADIP1615	PG16	11,0 - 15,0	24	6,0	50
M-WADIP2112	PG21	9,5 - 12,5	30	7,5	25
M-WADIP2116	PG21	12,5 - 16,0	30	7,5	25
M-WADIP2120	PG21	16,0 - 20,5	30	7,5	25
M-WADIP2919	PG29	16,0 - 19,0	38	8,0	25
M-WADIP2923	PG29	19,0 - 23,0	38	8,0	25
M-WADIP2927	PG29	23,0 - 27,5	38	8,0	25
M-WADIP3626	PG36	21,5 - 26,0	50	8,0	10
M-WADIP3630	PG36	26,0 - 30,5	50	8,0	10
M-WADIP3635	PG36	30,5 - 35,0	50	8,0	10
M-WADIP4233	PG42	29,0 - 33,0	55	10,0	10
M-WADIP4237	PG42	33,0 - 37,0	55	10,0	10
M-WADIP4242	PG42	37,0 - 42,0	55	10,0	10
M-WADIP4837	PG48	32,0 - 37,0	65	11,0	10
M-WADIP4843	PG48	37,0 - 43,0	65	11,0	10
M-WADIP4849	PG48	43,0 - 49,0	65	11,0	10

Auch mit ungebohrtem Dichtein-
satz lieferbar.

Sealing insert also available
without bor.

Technische Zeichnung
Engineering drawing

Auf Anfrage mit Zollgewinde lieferbar. On request with GAS-thread available.



Kabelverschraubung TYP M-UNI-DICHT

Material: Messing vernickelt
Klemmeinsatz: TPE
Schutzart: IP68
Temperaturbereich: -40°C bis +130°C

Cable Gland TYPE M-UNI-DICHT

Material: Nickel-plated brass
Clamping insert: TPE
Protection rating: IP68
Temperature range: -40°C up to +130°C



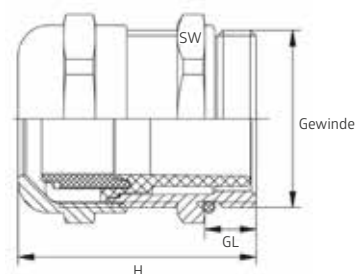
Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
M-UNIM1206	M12	4,0 - 6,5	18	5,0	50
M-UNIM1208	M12	5,0 - 8,0	17	5,0	50
M-UNIM1209	M12	6,5 - 9,0	17	5,0	50
M-UNIM1606	M16	4,0 - 6,5	18	6,0	50
M-UNIM1608	M16	5,0 - 8,0	18	6,0	50
M-UNIM1609	M16	6,5 - 9,5	18	6,0	50
M-UNIM1610	M16	7,0 - 10,5	20	6,0	50
M-UNIM1613	M16	9,0 - 13,0	22	6,0	50
M-UNIM2006	M20	4,0 - 6,5	22	6,5	50
M-UNIM2008	M20	5,0 - 8,0	22	6,5	50
M-UNIM2009	M20	6,5 - 9,5	22	6,5	50
M-UNIM2010	M20	7,0 - 10,5	22	6,5	50
M-UNIM2013	M20	9,0 - 13,0	22	6,5	50
M-UNIM2015	M20	11,5 - 15,5	24	6,5	50
M-UNIM2018	M20	14,0 - 18,0	30	6,5	25
M-UNIM2020	M20	17,0 - 20,5	30	6,5	25
M-UNIM2506	M25	4,0 - 6,5	28	7,5	50
M-UNIM2508	M25	5,0 - 8,0	28	7,5	50
M-UNIM2509	M25	6,5 - 9,5	28	7,5	50
M-UNIM2510	M25	7,0 - 10,5	28	7,5	50
M-UNIM2513	M25	9,0 - 13,0	28	7,5	50
M-UNIM2515	M25	11,5 - 15,5	28	7,5	50
M-UNIM2518	M25	14,0 - 18,0	30	7,5	25
M-UNIM2520	M25	17,0 - 20,5	30	7,5	25
M-UNIM3210	M32	7,0 - 10,5	35	8,0	25
M-UNIM3213	M32	9,0 - 13,0	35	8,0	25
M-UNIM3215	M32	11,5 - 15,5	35	8,0	25
M-UNIM3218	M32	14,0 - 18,0	35	8,0	25
M-UNIM3220	M32	17,0 - 20,5	35	8,0	25
M-UNIM3225	M32	20,0 - 25,0	40	8,0	10
M-UNIM3228	M32	24,0 - 28,0	40	8,0	10
M-UNIM3232	M32	27,0 - 32,0	40	8,0	5
M-UNIM3234	M32	29,0 - 34,0	50	8,0	5
M-UNIM3236	M32	32,0 - 36,0	50	8,0	5

Auch mit LSR- Dichtung (-60°C bis +200°C) und TPE-V-Dichtung (-40°C bis +135°C) lieferbar. Auf Anfrage mit UL/CSA- Zulassung. Ungebohrte Dichteinsätze und Mehrfachdichteinsätze lieferbar.

Also available with LSR- sealing (-60°C up to +200°C) and TPE-V-sealing (-40°C up to +135°C). UL/CSA-approbation on request. Closed and multiple sealing inserts available.

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
M-UNIM4015	M40	11,5 - 15,5	43	8,0	10
M-UNIM4018	M40	14,0 - 18,0	43	8,0	10
M-UNIM4020	M40	17,0 - 20,5	43	8,0	10
M-UNIM4025	M40	20,0 - 25,0	43	8,0	10
M-UNIM4028	M40	24,0 - 28,0	43	8,0	10
M-UNIM4032	M40	27,0 - 32,0	50	9,0	5
M-UNIM4034	M40	29,0 - 34,0	50	9,0	5
M-UNIM4036	M40	32,0 - 36,0	50	9,0	5
M-UNIM5032	M50	27,0 - 32,0	54	10,0	5
M-UNIM5034	M50	29,0 - 34,0	54	10,0	5
M-UNIM5036	M50	32,0 - 36,0	54	10,0	5
M-UNIM5038	M50	33,0 - 38,0	57	10,0	5
M-UNIM5040	M50	36,0 - 40,0	57	10,0	5
M-UNIM6344	M63	39,0 - 44,0	68	10,0	5
M-UNIM6345	M63	40,0 - 45,0	81	16,0	1
M-UNIM6351	M63	45,0 - 51,0	81	16,0	1
M-UNIM6356	M63	51,0 - 56,0	81	16,0	1
M-UNIM7245	M72	40,0 - 45,0	81	15,0	1
M-UNIM7251	M72	45,0 - 51,0	81	15,0	1
M-UNIM7256	M72	51,0 - 56,0	81	15,0	1
M-UNIM7547	M75	42,0 - 47,0	81	15,0	1
M-UNIM7552	M75	45,0 - 52,0	81	15,0	1
M-UNIM7555	M75	51,0 - 55,0	81	15,0	1
M-UNIM7558	M75	54,0 - 58,0	81	15,0	1
M-UNIM8057	M80	50,0 - 57,0	95	15,0	1
M-UNIM8064	M80	58,0 - 64,0	95	15,0	1
M-UNIM8070	M80	63,0 - 70,0	95	15,0	1
M-UNIM9076	M90	69,0 - 76,0	120	20,0	1
M-UNIM9085	M90	75,0 - 85,0	120	20,0	1
M-UNIM10076	M100	69,0 - 76,0	120	25,0	1
M-UNIM10085	M100	75,0 - 85,0	120	25,0	1
M-UNIM10090	M100	76,0 - 90,0	120	25,0	1
M-UNIM120100	M120	90,0 - 100,0	145	30,0	1
M-UNIM120110	M120	100,0 - 110,0	145	30,0	1

Technische Zeichnung Engineering drawing



Kabelverschraubung TYP M-UNI-DICHT

Material: Messing vernickelt
Klemmeinsatz: TPE
Schutzart: IP68
Temperaturbereich: -40°C bis +130°C

Cable Gland TYPE M-UNI-DICHT

Material: nickel-plated brass
Clamping insert: TPE
Protection rating: IP68
Temperature range: -40°C up to +130°C



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
M-UNIP0706	PG7	4,0 - 6,5	14	5,0	50
M-UNIP0708	PG7	5,0 - 8,0	17	5,0	50
M-UNIP0709	PG7	6,5 - 9,5	17	5,0	50
M-UNIP0710	PG7	7,0 - 10,5	20	5,5	50
M-UNIP0906	PG9	4,0 - 6,5	17	6,0	50
M-UNIP0908	PG9	5,0 - 8,0	17	6,0	50
M-UNIP0909	PG9	6,5 - 9,5	17	6,0	50
M-UNIP0910	PG9	7,0 - 10,5	20	6,0	50
M-UNIP0913	PG9	9,0 - 13,0	22	6,0	50
M-UNIP1106	PG11	4,0 - 6,5	20	6,0	50
M-UNIP1108	PG11	5,0 - 8,0	20	6,0	50
M-UNIP1109	PG11	6,5 - 9,5	20	6,0	50
M-UNIP1110	PG11	7,0 - 10,5	20	6,0	50
M-UNIP1113	PG11	9,0 - 13,0	22	6,0	50
M-UNIP1115	PG11	11,5 - 15,5	24	6,0	50
M-UNIP1306	PG13,5	4,0 - 6,5	22	6,5	50
M-UNIP1308	PG13,5	5,0 - 8,0	22	6,5	50
M-UNIP1309	PG13,5	6,5 - 9,5	22	6,5	50
M-UNIP1310	PG13,5	7,0 - 10,5	22	6,5	50
M-UNIP1313	PG13,5	9,0 - 13,0	22	6,5	50
M-UNIP1315	PG13,5	11,5 - 15,5	24	6,5	50
M-UNIP1318	PG13,5	14,0 - 18,0	30	6,5	25
M-UNIP1320	PG13,5	17,0 - 20,5	30	6,5	25
M-UNIP1606	PG16	4,0 - 6,5	24	6,5	50
M-UNIP1608	PG16	5,0 - 8,0	24	6,5	50
M-UNIP1609	PG16	6,5 - 9,5	24	6,5	50
M-UNIP1610	PG16	7,0 - 10,5	24	6,5	50
M-UNIP1613	PG16	9,0 - 13,0	24	6,5	50
M-UNIP1615	PG16	11,5 - 15,5	24	6,5	50
M-UNIP1618	PG16	14,0 - 18,0	30	6,5	25
M-UNIP1620	PG16	17,0 - 20,5	30	6,5	25
M-UNIP1625	PG16	20,0 - 25,0	40	6,5	10
M-UNIP1628	PG16	24,0 - 28,0	40	6,5	10
M-UNIP2110	PG21	7,0 - 10,5	30	7,0	25
M-UNIP2113	PG21	9,0 - 13,0	30	7,0	25
M-UNIP2115	PG21	11,5 - 15,5	30	7,0	25
M-UNIP2118	PG21	14,0 - 18,0	30	7,0	25
M-UNIP2120	PG21	17,0 - 20,5	30	7,0	25
M-UNIP2125	PG21	20,0 - 25,0	40	7,0	10
M-UNIP2128	PG21	24,0 - 28,0	40	7,0	10
M-UNIP2132	PG21	27,0 - 32,0	50	7,0	5
M-UNIP2134	PG21	29,0 - 34,0	50	7,0	5
M-UNIP2136	PG21	32,0 - 36,0	50	7,0	5
M-UNIP2913	PG29	9,0 - 13,0	40	8,0	10
M-UNIP2915	PG29	11,5 - 15,5	40	8,0	10
M-UNIP2918	PG29	14,0 - 18,0	40	8,0	10
M-UNIP2920	PG29	17,0 - 20,5	40	8,0	10
M-UNIP2925	PG29	20,0 - 25,0	40	8,0	10
M-UNIP2928	PG29	24,0 - 28,0	40	8,0	10
M-UNIP2932	PG29	27,0 - 32,0	50	8,0	5
M-UNIP2934	PG29	29,0 - 34,0	50	8,0	5
M-UNIP2936	PG29	32,0 - 36,0	50	8,0	5
M-UNIP3632	PG36	27,0 - 32,0	50	9,0	10
M-UNIP3634	PG36	29,0 - 34,0	50	9,0	10
M-UNIP3636	PG36	32,0 - 36,0	50	9,0	10
M-UNIP3638	PG36	33,0 - 38,0	57	9,0	5
M-UNIP3640	PG36	36,0 - 40,0	57	9,0	5
M-UNIP4236	PG42	32,0 - 36,0	57	10,0	5
M-UNIP4240	PG42	36,0 - 40,0	57	10,0	5
M-UNIP4844	PG48	39,0 - 44,0	64	10,0	5
M-UNIP4847	PG48	42,0 - 47,0	81	10,0	1
M-UNIP4852	PG48	45,0 - 52,0	81	10,0	1
M-UNIP4855	PG48	51,0 - 55,0	81	10,0	1
M-UNIP4858	PG48	54,0 - 58,0	81	10,0	1
M-UNIP4864	PG48	58,0 - 64,0	95	10,0	1
M-UNIP4870	PG48	63,0 - 70,0	95	10,0	1



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
M-UNIZ01406	G 1/4"	4,0 - 6,5	17	6,0	50
M-UNIZ03806	G 3/8"	4,0 - 6,5	20	6,0	50
M-UNIZ03809	G 3/8"	6,5 - 9,5	20	6,0	50
M-UNIZ01206	G 1/2"	4,0 - 6,5	22	7,0	50
M-UNIZ01208	G 1/2"	5,0 - 8,0	22	7,0	50
M-UNIZ01209	G 1/2"	6,5 - 9,5	22	7,0	50
M-UNIZ01210	G 1/2"	7,0 - 10,5	22	7,0	50
M-UNIZ01213	G 1/2"	9,0 - 13,0	22	7,0	50
M-UNIZ03410	G 3/4"	7,0 - 10,5	30	9,0	25
M-UNIZ03413	G 3/4"	9,0 - 13,0	30	9,0	25
M-UNIZ03415	G 3/4"	11,5 - 15,5	30	9,0	25
M-UNIZ03418	G 3/4"	14,0 - 18,0	30	9,0	25
M-UNIZ03420	G 3/4"	17,0 - 20,5	30	9,0	25
M-UNIZ10010	G 1"	7,0 - 10,5	35	9,0	25
M-UNIZ10013	G 1"	9,0 - 13,0	35	9,0	25
M-UNIZ10015	G 1"	11,5 - 15,5	35	9,0	25
M-UNIZ10018	G 1"	14,0 - 18,0	35	9,0	25
M-UNIZ10020	G 1"	17,0 - 20,5	35	9,0	25
M-UNIZ11430	G 1 1/4"	26,0 - 30,0	45	9,0	10
M-UNIZ11232	G 1 1/2"	27,0 - 32,0	50	9,0	5
M-UNIZ11234	G 1 1/2"	29,0 - 34,0	50	9,0	5
M-UNIZ11236	G 1 1/2"	32,0 - 36,0	50	9,0	5
M-UNIZ20044	G 2"	39,0 - 44,0	64	10,0	5
M-UNIZ21247	G 2 1/2"	42,0 - 47,0	81	15,0	1
M-UNIZ21252	G 2 1/2"	45,0 - 52,0	81	15,0	1
M-UNIZ21255	G 2 1/2"	51,0 - 55,0	81	15,0	1
M-UNIZ21258	G 2 1/2"	54,0 - 58,0	81	15,0	1
M-UNIZ30057	G 3"	50,0 - 57,0	95	15,0	1
M-UNIZ30064	G 3"	58,0 - 64,0	95	15,0	1
M-UNIZ30070	G 3"	63,0 - 70,0	95	15,0	1

Auch mit LSR- Dichtung (-60°C bis + 200°C) und TPE-V-Dichtung (-40°C bis +135°C) lieferbar. Auf Anfrage mit UL/CSA- Zulassung. Ungebohrte Dichteinsätze und Mehrfachdichteinsätze lieferbar.

Also available with LSR- sealing (-60°C up to +200°C) and TPE-V-sealing (-40°C up to +135°C). UL/CSA- approbation on request. Closed and multiple sealing inserts available.

Kabelverschraubung TYP X-UNI-DICHT-VA

Material: Edelstahl 1.4305
Klemmeinsatz: TPE-V
Schutzart: IP68
Temperaturbereich: -40°C bis +135°C

Cable Gland TYPE X-UNI-DICHT-VA

Material: stainless steel AISI 303
Clamping insert: TPE-V
Protection rating: IP68
Temperature range: -40°C up to +135°C



Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
X-UNIM1004	M10	1,0 - 4,5	14	5,0	1
X-UNIM1006	M10	4,0 - 6,5	14	5,0	1
X-UNIM1204	M12	1,0 - 4,5	14	6,0	1
X-UNIM1206	M12	4,0 - 6,5	14	6,0	1
X-UNIM1606	M16	4,0 - 6,5	17	6,5	1
X-UNIM1608	M16	5,0 - 8,0	17	6,5	1
X-UNIM1609	M16	6,5 - 9,5	17	6,5	1
X-UNIM2006	M20	4,0 - 6,5	22	7,0	1
X-UNIM2008	M20	5,0 - 8,0	22	7,0	1
X-UNIM2009	M20	6,5 - 9,5	22	7,0	1
X-UNIM2010	M20	7,0 - 10,5	22	7,0	1
X-UNIM2013	M20	9,0 - 13,0	22	7,0	1
X-UNIM2506	M25	4,0 - 6,5	27	7,5	1
X-UNIM2508	M25	5,0 - 8,0	27	7,5	1
X-UNIM2509	M25	6,5 - 9,5	27	7,5	1
X-UNIM2510	M25	7,0 - 10,5	27	7,5	1
X-UNIM2513	M25	9,0 - 13,0	27	7,5	1
X-UNIM2515	M25	11,5 - 15,5	27	7,5	1

Art. Nr. Art. No.	Gewinde Thread	für Kabel for cable	SW mm	GL mm	VPE Stk. Unit pcs.
X-UNIM3210	M32	7,0 - 10,5	36	8,0	1
X-UNIM3213	M32	9,0 - 13,0	36	8,0	1
X-UNIM3215	M32	11,5 - 15,5	36	8,0	1
X-UNIM3218	M32	14,0 - 18,0	36	8,0	1
X-UNIM3221	M32	17,0 - 21,0	36	8,0	1
X-UNIM4015	M40	11,5 - 15,5	46	8,0	1
X-UNIM4018	M40	14,0 - 18,0	46	8,0	1
X-UNIM4021	M40	17,0 - 21,0	46	8,0	1
X-UNIM4025	M40	20,0 - 25,0	46	8,0	1
X-UNIM4028	M40	24,0 - 28,0	46	8,0	1
X-UNIM4032	M40	27,0 - 32,0	50	8,0	1
X-UNIM5032	M50	27,0 - 32,0	55	10,0	1
X-UNIM5034	M50	29,0 - 34,0	55	10,0	1
X-UNIM5036	M50	32,0 - 36,0	55	10,0	1
X-UNIM5041	M50	36,0 - 41,0	60	10,0	1
X-UNIM6345	M63	39,5 - 45,0	70	10,0	1
X-UNIM6352	M63	47,0 - 52,0	70	10,0	1

Auch mit LSR- Dichteinsatz (-60°C bis +200°C), PG- oder Zoll- Gewinde lieferbar. In anderen Edelstahl-qualitäten lieferbar (z.b. 1.4301, 1.4404, 1.4571).

Also available LSR- sealing insert (-60°C up to +200°C), PG- or NPT- thread. Available in other Stainless steel qualities (e.g. AISI 304 or AISI 316).

Kabelverschraubungen AUF ANFRAGE

M-VZT - IP54

mit Sechskant- Zwischenstützen und Druckschraube
with hexagonal lower part and pressure screw



Cable glands ON REQUEST

M-LAGRACORD - IP55

mit Zugentlastung und Knickschutztülle
with strain relief and bend-protection sleeve



Ent- und Belüftungs- Verschraubung

TYP EBF / SO-M

Material: Messing vernickelt
Temperaturbereich: bis +300°C

Anwendung:

Zur Be- und Entlüftung von bzw. Luftzirkulation in Gehäusen, Schaltschränken und Anlagen.

Aeration and Deaeration Fitting

TYPE EBF / SO-M

Material: nickel-plated brass
Temperature range: up to +300°C

Application:

Aering and de-aering or ventilating of boxes, switch cabinets and installations.

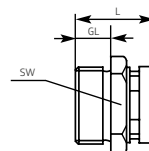


GEWINDEART METRISCH

Art. Nr. Art. No.	Art. Nr. VA Art. No. INOX	Gewinde Thread	L mm	GL/AG mm	SW mm	VPE Stk. Unit pcs.
05241	05241VA	M12	18,0	6,0	14	100
05242	05242VA	M16	18,0	6,0	17	100
05243	05243VA	M20	18,0	7,5	22	100
05244	05244VA	M25	20,0	7,5	30	50



Technische Zeichnung
Engineering drawing



Ent- und Belüftungs- Verschraubung

TYP EBF / SO-M-IP66

Material: Messing vernickelt
Dichtung: Polyethylen

Temperaturbereich: -20°C bis +80°C

Schutzart: IP66

Anwendung:

Zur Be- und Entlüftung von bzw. Luftzirkulation in Gehäusen, Schaltschränken und Anlagen.

Aeration and Deaeration Fitting

TYPE EBF / SO-M-IP66

Material: nickel-plated brass
Sealing: Polyethylene

Temperature range: -20°C up to +80°C

Protection rating: IP66

Application:

Aering and de-aering or ventilating of boxes, switch cabinets and installations.

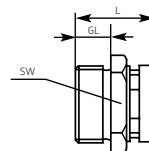


GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	L mm	GL/AG mm	SW mm	VPE Stk. Unit pcs.
052490	M20	20,0	10,0	24	50



Technische Zeichnung
Engineering drawing



Ent- und Belüftungs- Verschraubung

TYP EBF-SIEB

Material: Messing vernickelt
Edelstahlsieb

Temperaturbereich: bis +300°C

Anwendung:

Zum Ablauf von Kondenswasser in Gehäusen, Schaltschränken und Anlagen und zur Be- und Entlüftung.

Aeration and Deaeration Fitting

TYPE EBF-SIEB

Material: nickel-plated brass
stainless steel sieve

Temperature range: up to +300°C

Application:

To be used as discharge of condensation water in boxes, switch cabinets and installations

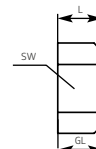


GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	L mm	GL/AG mm	SW mm	VPE Stk. Unit pcs.
27023	PG11	11,5	10,0	21	100



Technische Zeichnung
Engineering drawing



Gegenmutter TYP M-GM

Material: Messing vernickelt
Temperaturbereich: bis +200°C



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
M-GMM06	M6	9	2,8	50
M-GMM08	M8	11	2,8	50
M-GMM10	M10	13	2,8	50
M-GMM12	M12	15	2,8	100
M-GMM16	M16	19	2,8	100
M-GMM20	M20	24	3,0	100
M-GMM25	M25	30	3,5	100
M-GMM32	M32	36	4,0	100
M-GMM40	M40	46	5,0	50
M-GMM50	M50	60	5,0	25
M-GMM63	M63	70	6,0	25

Auch in Edelstahl erhältlich.
Also available in stainless steel.

Locknut TYPE M-GM

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
M-GMP07	PG07	15	2,8	100
M-GMP09	PG09	18	2,8	100
M-GMP11	PG11	21	3,0	100
M-GMP13	PG13,5	23	3,0	100
M-GMP16	PG16	26	3,0	100
M-GMP21	PG21	32	3,5	100
M-GMP29	PG29	41	4,0	50
M-GMP36	PG36	51	5,0	50
M-GMP42	PG42	60	5,0	25
M-GMP48	PG48	64	5,0	25



GEWINDEART ZOLL

Art. Nr. Art. No.	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
M-GMZ014	1/4"	15	2,8	100
M-GMZ038	3/8"	20	3,0	100
M-GMZ012	1/2"	24	3,0	100
M-GMZ034	3/4"	30	3,5	100
M-GMZ100	1"	38	4,5	100
M-GMZ114	1 1/4"	46	5,0	50
M-GMZ112	1 1/2"	51	5,0	50
M-GMZ134	1 3/4"	51	5,0	50
M-GMZ200	2"	64	5,5	50
M-GMZ212	2 1/2"	80	7,0	25
M-GMZ300	3"	100	8,0	10
M-GMZ400	4"	125	11,0	1
M-GMZ500	5"	150	12,0	1

EMV-Gegenmutter TYP M-GM-EMV

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Anwendung:

Gegenmutter mit Schneidkanten um eine erhöhte elektrische Leitfähigkeit zu erreichen.



GEWINDEART METRISCH

Art. Nr. Art. No.	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
M-GMM12EMV	M12	15	2,8	50
M-GMM16EMV	M16	19	2,8	50
M-GMM20EMV	M20	24	3,0	50
M-GMM25EMV	M25	30	3,5	50
M-GMM32EMV	M32	36	4,5	25
M-GMM40EMV	M40	46	5,0	25
M-GMM50EMV	M50	60	5,0	10
M-GMM63EMV	M63	70	6,0	10



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	SW mm	H mm	VPE Stk. Unit pcs.
M-GMP07EMV	PG07	15	4,7	100
M-GMP09EMV	PG09	18	4,7	100
M-GMP11EMV	PG11	21	4,7	100
M-GMP13EMV	PG13,5	23	4,7	100
M-GMP16EMV	PG16	26	4,7	100
M-GMP21EMV	PG21	32	5,2	50
M-GMP29EMV	PG29	41	5,7	50
M-GMP36EMV	PG36	51	6,5	50
M-GMP42EMV	PG42	60	6,5	25
M-GMP48EMV	PG48	64	6,5	25

Application:

Locknut with cutting edges in order to reach higher conductivity.



Reduzierung TYP M-RED

Material: Messing vernickelt
Temperaturbereich: bis +200°C



Form 2



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	VPE Stk. Unit pcs.
M-REDM1612	M16	M12	8,5	6,0	100
M-REDM2012	M20	M12	8,5	6,0	100
M-REDM2016	M20	M16	9,0	6,5	100
M-REDM2512	M25	M12	10,5	7,5	50
M-REDM2516	M25	M16	10,0	7,0	50
M-REDM2520	M25	M20	10,0	7,0	50
M-REDM3216	M32	M16	11,5	8,0	50
M-REDM3220	M32	M20	11,5	8,0	50
M-REDM3225	M32	M25	11,5	8,0	25
M-REDM4020	M40	M20	12,0	8,0	25
M-REDM4025	M40	M25	11,5	8,0	25
M-REDM4032	M40	M32	11,5	8,0	25
M-REDM5025	M50	M25	13,0	9,0	10
M-REDM5032	M50	M32	12,5	9,0	10
M-REDM5040	M50	M40	12,5	9,0	10
M-REDM6332	M63	M32	14,0	10,0	10
M-REDM6340	M63	M40	14,0	10,0	10
M-REDM6350	M63	M50	14,0	10,0	10

Reducer TYPE M-RED

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART PG

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	VPE Stk. Unit pcs.
M-REDPG0907	PG09	PG07	8,5	6,0	100
M-REDPG1107	PG11	PG07	8,5	6,0	100
M-REDPG1109	PG11	PG09	8,5	6,0	100
M-REDPG1307	PG13,5	PG07	9,0	6,5	100
M-REDPG1309	PG13,5	PG09	9,0	6,5	100
M-REDPG1311	PG13,5	PG11	9,0	6,5	100
M-REDPG1607	PG16	PG07	9,5	6,5	100
M-REDPG1609	PG16	PG09	9,5	6,5	100
M-REDPG1611	PG16	PG11	9,5	6,5	100
M-REDPG1613	PG16	PG13,5	9,5	6,5	100
M-REDPG2111	PG21	PG11	10,0	7,0	100
M-REDPG2113	PG21	PG13,5	10,0	7,0	100
M-REDPG2116	PG21	PG16	10,0	7,0	100
M-REDPG2916	PG29	PG16	11,5	8,0	50
M-REDPG2921	PG29	PG21	11,5	8,0	50
M-REDPG3621	PG36	PG21	12,5	9,0	25
M-REDPG3629	PG36	PG29	12,5	9,0	25
M-REDPG4229	PG42	PG29	14,0	10,0	10
M-REDPG4236	PG42	PG36	14,0	10,0	10
M-REDPG4836	PG48	PG36	14,0	10,0	10
M-REDPG4842	PG48	PG42	14,0	10,0	10

Reduzierung TYP M-REDS

Material: Messing vernickelt
Temperaturbereich: bis +200°C



Form 1



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	SW mm	VPE Stk. Unit pcs.
M-REDSM1612	M16	M12	8,5	6,0	18	50
M-REDSM2012	M20	M12	9,0	6,5	22	50
M-REDSM2016	M20	M16	9,0	6,5	22	50
M-REDSM2512	M25	M12	10,5	7,5	27	50
M-REDSM2516	M25	M16	10,0	7,0	28	50
M-REDSM2520	M25	M20	10,0	7,0	28	50
M-REDSM3216	M32	M16	11,0	8,0	35	50
M-REDSM3220	M32	M20	11,5	8,0	35	50
M-REDSM3225	M32	M25	11,5	8,0	35	25
M-REDSM4020	M40	M20	12,0	8,0	43	25
M-REDSM4025	M40	M25	12,5	8,0	43	25
M-REDSM4032	M40	M32	12,5	8,0	43	25
M-REDSM5025	M50	M25	14,0	10,0	54	10
M-REDSM5032	M50	M32	14,0	10,0	54	10
M-REDSM5040	M50	M40	14,0	10,0	54	10
M-REDSM6332	M63	M32	14,0	10,0	65	10
M-REDSM6340	M63	M40	14,0	10,0	68	10
M-REDSM6350	M63	M50	14,0	10,0	68	10
M-REDSM7250	M72	M50	17,0	12,0	80	5
M-REDSM7263	M72	M63	15,0	10,0	81	5
M-REDSM7550	M75	M50	23,0	15,0	90	5
M-REDSM7563	M75	M63	23,0	15,0	90	5
M-REDSM8063	M80	M63	18,0	10,0	90	5
M-REDSM8072	M80	M72	18,0	10,0	90	5
M-REDSM8075	M80	M75	18,0	10,0	90	5

Reducer TYPE M-REDS

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART ZOLL

Art. Nr. Art. No.	AG Male	IG Female	GL / IG mm	SW mm	VPE Stk. Unit pcs.
M-REDSZ014018	1/4"	1/8"	6,0	20	50
M-REDSZ038014	3/8"	1/4"	6,0	20	50
M-REDSZ012014	1/2"	1/4"	8,0	24	50
M-REDSZ012038	1/2"	3/8"	8,0	24	50
M-REDSZ034038	3/4"	3/8"	8,0	30	50
M-REDSZ034012	3/4"	1/2"	8,0	30	50
M-REDSZ100012	1"	1/2"	11,0	35	25
M-REDSZ100034	1"	3/4"	11,0	35	25
M-REDSZ114034	1 1/4"	3/4"	-	45	10
M-REDSZ114100	1 1/4"	1"	11,0	45	10
M-REDSZ112100	1 1/2"	1"	-	51	5
M-REDSZ112114	1 1/2"	1 1/4"	11,0	51	5
M-REDSZ200100	2"	1"	-	64	5
M-REDSZ200112	2"	1 1/2"	11,0	64	5

Erweiterung TYP M-ERW

Material: Messing vernickelt
Temperaturbereich: bis +200°C



Form 3



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	AD mm	VPE Stk Unit pcs.
M-ERWM1216	M12	M16	15,0	5,0	18	100
M-ERWM1620	M16	M20	17,5	6,0	22	100
M-ERWM1625	M16	M25	20,0	6,5	27	50
M-ERWM2025	M20	M25	19,0	6,5	27	50
M-ERWM2032	M20	M32	22,0	7,0	34	50
M-ERWM2532	M25	M32	21,0	6,5	34	50
M-ERWM2540	M25	M40	24,0	7,5	43	50
M-ERWM3240	M32	M40	23,0	7,0	42	50
M-ERWM3250	M32	M50	28,0	8,0	53	25
M-ERWM4050	M40	M50	31,0	9,0	53	10
M-ERWM5063	M50	M63	31,0	9,0	66	10

Enlargement TYPE M-ERW

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART PG

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	AD mm	VPE Stk Unit pcs.
M-ERWPG0709	PG07	PG09	15,0	5,0	17	100
M-ERWPG0911	PG09	PG11	16,5	6,0	20	100
M-ERWPG0913	PG09	PG13,5	17,5	6,0	22	100
M-ERWPG1113	PG11	PG13,5	17,5	6,0	22	100
M-ERWPG1116	PG11	PG16	19,0	6,5	24	100
M-ERWPG1121	PG11	PG21	21,0	6,5	30	100
M-ERWPG1316	PG13,5	PG16	19,0	6,5	24	100
M-ERWPG1321	PG13,5	PG21	21,0	6,5	30	100
M-ERWPG1621	PG16	PG21	21,0	6,5	30	100
M-ERWPG1629	PG16	PG29	22,5	6,5	39	50
M-ERWPG2129	PG21	PG29	23,0	7,0	39	50
M-ERWPG2936	PG29	PG36	27,5	8,0	50	25
M-ERWPG3642	PG36	PG42	31,0	9,0	57	10
M-ERWPG4248	PG42	PG48	33,0	10,0	64	10

Erweiterung TYP M-ERWS

Material: Messing vernickelt
Temperaturbereich: bis +200°C



Form 5



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	SW mm	VPE Stk Unit pcs.
M-ERWSM1216	M12	M16	17,0	6,0	17	50
M-ERWSM1620	M16	M20	17,5	6,5	22	50
M-ERWSM1625	M16	M25	20,0	6,5	27	50
M-ERWSM2025	M20	M25	20,0	7,0	27	50
M-ERWSM2032	M20	M32	22,0	7,0	35	50
M-ERWSM2532	M25	M32	22,0	7,5	35	25
M-ERWSM2540	M25	M40	24,0	7,5	43	25
M-ERWSM3240	M32	M40	25,0	8,0	43	20
M-ERWSM3250	M32	M50	28,0	8,0	54	20
M-ERWSM4050	M40	M50	28,0	8,0	54	10
M-ERWSM5063	M50	M63	33,0	10,0	65	10

Enlargement TYPE M-ERWS

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART ZOLL

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	SW mm	VPE Stk Unit pcs.
M-ERWSZ014038	1/4"	3/8"	7,0	6,0	20	50
M-ERWSZ038012	3/8"	1/2"	9,0	6,0	24	50
M-ERWSZ012034	1/2"	3/4"	9,0	8,0	30	50
M-ERWSZ034100	3/4"	1"	9,0	8,0	35	50
M-ERWSZ034112	3/4"	1 1/2"	16,0	10,0	55	10
M-ERWSZ100114	1"	1 1/4"	12,0	11,0	45	10
M-ERWSZ100112	1"	1 1/2"	16,0	10,0	55	10
M-ERWSZ114112	1 1/4"	1 1/2"	12,0	11,0	51	10
M-ERWSZ112200	1 1/2"	2"	12,0	11,0	64	5
M-ERWSZ212300	2 1/2"	3"	25,0	20,0	-	5

Übergangsstück TYP M-ÜM-PG

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Adapter TYPE M-ÜM-PG

Material: nickel-plated brass
Temperature range: up to +200°C



Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜMPG1207	M12	PG07	15,0	5,0	3	14	100
M-ÜMPG1209	M12	PG09	16,5	7,0	5	18	100
M-ÜMPG1607	M16	PG07	7,5	6,0	2	-	100
M-ÜMPG1609	M16	PG09	17,0	6,0	5	20	100
M-ÜMPG1611	M16	PG11	17,0	7,0	5	20	100
M-ÜMPG2007	M20	PG07	9,0	7,0	1	24	100
M-ÜMPG2009	M20	PG09	9,0	6,5	2	-	100
M-ÜMPG2011	M20	PG11	17,0	6,5	3	-	100
M-ÜMPG2013	M20	PG13,5	18,5	6,5	3	-	100
M-ÜMPG2016	M20	PG16	19,5	6,5	3	-	100
M-ÜMPG2509	M25	PG09	10,0	8,0	1	28	50
M-ÜMPG2511	M25	PG11	10,0	7,0	2	-	50
M-ÜMPG2513	M25	PG13,5	10,0	7,0	2	-	50
M-ÜMPG2516	M25	PG16	10,0	6,5	2	-	50
M-ÜMPG 2521	M25	PG21	22,0	7,0	3	-	50
M-ÜMPG3213	M32	PG13,5	11,0	8,0	2	-	25

Aussengewinde (AG) Metrisch
Innengewinde (IG) PG

Male thread (AG) metric
Female thread (IG) PG

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜMPG3216	M32	PG16	11,0	8,0	2	-	25
M-ÜMPG3221	M32	PG21	11,0	8,0	2	-	25
M-ÜMPG3229	M32	PG29	24,5	8,0	3	-	25
M-ÜMPG4016	M40	PG16	12,0	8,0	2	-	25
M-ÜMPG4021	M40	PG21	11,5	9,0	2	-	25
M-ÜMPG4029	M40	PG29	24,5	8,0	5	45	10
M-ÜMPG4036	M40	PG36	27,5	8,0	3	-	10
M-ÜMPG5021	M50	PG21	13,0	9,0	2	-	10
M-ÜMPG5029	M50	PG29	12,5	9,0	2	-	10
M-ÜMPG5036	M50	PG36	28,5	9,0	5	55	10
M-ÜMPG5042	M50	PG42	31,0	9,0	3	-	10
M-ÜMPG5048	M50	PG48	30,0	10,0	4	64	10
M-ÜMPG6329	M63	PG29	14,0	10,0	2	-	10
M-ÜMPG6336	M63	PG36	14,0	10,0	2	-	10
M-ÜMPG6342	M63	PG42	14,0	10,0	2	-	10
M-ÜMPG6348	M63	PG48	33,0	10,0	3	-	10

Aussengewinde (AG) Metrisch
Innengewinde (IG) PG

Male thread (AG) metric
Female thread (IG) PG

Übergangsstück TYP M-ÜPG-M

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Adapter TYPE M-ÜPG-M

Material: nickel-plated brass
Temperature range: up to +200°C



Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜPGM0712	PG07	M12	15,0	5,0	5	14	100
M-ÜPGM0906	PG09	M6	9,0	6,0	1	18	50
M-ÜPGM0908	PG09	M8	9,0	6,0	1	18	50
M-ÜPGM0910	PG09	M10	9,0	6,0	1	18	50
M-ÜPGM0912	PG09	M12	14,0	6,0	1	18	50
M-ÜPGM0916	PG09	M16	16,0	6,0	5	19	100
M-ÜPGM1106	PG11	M6	9,0	6,0	1	21	50
M-ÜPGM1108	PG11	M8	9,0	6,0	1	21	50
M-ÜPGM1110	PG11	M10	9,0	6,0	1	21	50
M-ÜPGM1112	PG11	M12	9,0	6,0	1	21	50
M-ÜPGM1116	PG11	M16	16,0	6,0	5	22	100
M-ÜPGM1120	PG11	M20	16,5	6,0	4	24	50
M-ÜPGM1312	PG13,5	M12	9,0	6,0	1	24	50
M-ÜPGM1316	PG13,5	M16	9,0	6,0	1	24	50
M-ÜPGM1320	PG13,5	M20	17,5	6,5	5	24	100
M-ÜPGM1612	PG16	M12	9,0	6,0	1	24	25
M-ÜPGM1616	PG16	M16	9,0	6,0	1	24	25

Aussengewinde (AG) PG
Innengewinde (IG) Metrisch

Male thread (AG) PG
Female thread (IG) metric

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜPGM1620	PG16	M20	17,5	6,5	5	27	100
M-ÜPGM1625	PG16	M25	18,5	6,5	5	30	100
M-ÜPGM2116	PG21	M16	11,0	7,0	1	30	25
M-ÜPGM2120	PG21	M20	11,0	7,0	1	30	25
M-ÜPGM2125	PG21	M25	19,0	7,0	5	32	25
M-ÜPGM2132	PG21	M32	21,5	7,5	4	36	25
M-ÜPGM2925	PG29	M25	12,0	8,0	1	38	20
M-ÜPGM2932	PG29	M32	21,0	8,0	1	38	20
M-ÜPGM2940	PG29	M40	21,0	8,0	5	43	50
M-ÜPGM3632	PG36	M32	12,5	8,0	1	50	10
M-ÜPGM3640	PG36	M40	12,5	8,0	1	50	10
M-ÜPGM3650	PG36	M50	23,0	9,0	5	55	25
M-ÜPGM4232	PG42	M32	15,0	10,0	1	55	10
M-ÜPGM4240	PG42	M40	15,0	10,0	1	55	10
M-ÜPGM4250	PG42	M50	25,0	10,0	1	55	10
M-ÜPGM4263	PG42	M63	25,0	10,0	5	65	10
M-ÜPGM4840	PG48	M40	16,5	11,0	1	65	5
M-ÜPGM4850	PG48	M50	16,5	11,0	1	65	5

Aussengewinde (AG) PG
Innengewinde (IG) Metrisch

Male thread (AG) PG
Female thread (IG) metric

Übergangsstück

TYP M-ÜM-G
TYP M-ÜGA-M
TYP M-ÜPG-G
TYP M-ÜGA-PG

Material: Messing vernickelt
Temperaturbereich: bis +200°C



Form 1 Form 2 Form 5

Adapter

TYPE M-ÜM-G
TYPE M-ÜGA-M
TYPE M-ÜPG-G
TYPE M-ÜGA-PG

Material: nickel-plated brass
Temperature range: up to +200°C



Art. Nr. Art. No.	AG Male	IG Female	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜMG20038	M20	3/8"	8,0	1	24	50
M-ÜMG20012	M20	1/2"	7,0	5	24	50
M-ÜMG25012	M25	1/2"	8,0	1	30	50
M-ÜMG32034	M32	3/4"	8,0	1	35	25
M-ÜMG32100	M32	1"	8,0	1	35	25
M-ÜMG40100	M40	1"	11,0	1	45	10
M-ÜMG40114	M40	1 1/4"	11,0	5	45	10
M-ÜMG50114	M50	1 1/4"	11,0	1	55	10
M-ÜMG50112	M50	1 1/2"	11,0	5	55	5

Aussengewinde (AG) Metrisch
Innengewinde (IG) Zoll

Male thread (AG) metric
Female thread (IG) GAS

Art. Nr. Art. No.	AG Male	IG Female	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜPGG07014	PG07	1/4"	6,0	5	20	50
M-ÜPGG09018	PG09	1/8"	6,0	1	20	50
M-ÜPGG09014	PG09	1/4"	6,0	5	20	50
M-ÜPGG09038	PG09	3/8"	6,0	5	20	50
M-ÜPGG09012	PG09	1/2"	8,0	5	24	50
M-ÜPGG09034	PG09	3/4"	8,0	5	30	25
M-ÜPGG11014	PG11	1/4"	6,0	1	20	50
M-ÜPGG11038	PG11	3/8"	6,0	5	20	50
M-ÜPGG11012	PG11	1/2"	6,0	5	24	50
M-ÜPGG11034	PG11	3/4"	8,0	5	30	25
M-ÜPGG13014	PG13,5	1/4"	6,0	1	24	50
M-ÜPGG13038	PG13,5	3/8"	6,0	1	24	50
M-ÜPGG13012	PG13,5	1/2"	6,0	5	24	50
M-ÜPGG13034	PG13,5	3/4"	6,0	5	30	50
M-ÜPGG16014	PG16	1/4"	6,0	1	24	50
M-ÜPGG16038	PG16	3/8"	6,0	1	24	50
M-ÜPGG16012	PG16	1/2"	6,0	5	24	50
M-ÜPGG16034	PG16	3/4"	8,0	5	30	50
M-ÜPGG21012	PG21	1/2"	8,0	1	30	50
M-ÜPGG21034	PG21	3/4"	8,0	5	30	25
M-ÜPGG21100	PG21	1"	8,0	5	41	25
M-ÜPGG29034	PG29	3/4"	8,0	1	41	25
M-ÜPGG29100	PG29	1"	8,0	1	41	25
M-ÜPGG29114	PG29	1 1/4"	11,0	5	51	10
M-ÜPGG36100	PG36	1"	14,0	1	51	10
M-ÜPGG36114	PG36	1 1/4"	11,0	1	51	5
M-ÜPGG36112	PG36	1 1/2"	11,0	5	58	5
M-ÜPGG42112	PG42	1 1/2"	11,0	1	65	5
M-ÜPGG42200	PG42	2"	11,0	5	65	5
M-ÜPGG48112	PG48	1 1/2"	11,0	1	65	5
M-ÜPGG48200	PG48	2"	11,0	5	65	5

Aussengewinde (AG) PG
Innengewinde (IG) Zoll

Male thread (AG) PG
Female thread (IG) GAS

Art. Nr. Art. No.	AG Male	IG Female	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜGAM01416	1/4"	M16	6,0	5	20	50
M-ÜGAM03816	3/8"	M16	6,0	5	20	50
M-ÜGAM03820	3/8"	M20	7,0	5	24	50
M-ÜGAM01216	1/2"	M16	8,0	1	24	50
M-ÜGAM01220	1/2"	M20	7,0	5	24	50
M-ÜGAM01225	1/2"	M25	7,0	5	30	50
M-ÜGAM01232	1/2"	M32	7,0	5	35	50
M-ÜGAM03420	3/4"	M20	8,0	1	30	50
M-ÜGAM03425	3/4"	M25	7,0	5	30	50
M-ÜGAM03432	3/4"	M32	7,0	5	35	25
M-ÜGAM10025	1"	M25	8,0	1	35	25
M-ÜGAM10032	1"	M32	7,0	5	35	25
M-ÜGAM10040	1"	M40	11,0	5	45	10
M-ÜGAM11432	1 1/4"	M32	11,0	1	45	10
M-ÜGAM11440	1 1/4"	M40	11,0	5	45	10
M-ÜGAM11240	1 1/2"	M40	11,0	5	50	10
M-ÜGAM1450	1/4"	M50	14,0	2	55	10
M-ÜGAM11250	1 1/2"	M50	11,0	5	55	5
M-ÜGAM20050	2"	M50	14,0	1	65	10
M-ÜGAM20063	2"	M63	14,0	5	70	5

Aussengewinde (AG) Zoll
Innengewinde (IG) Metrisch

Male thread (AG) GAS
Female thread (IG) metric

Art. Nr. Art. No.	AG Male	IG Female	GL / AG mm	Form Shape	SW mm	VPE Stk Unit pcs.
M-ÜGAPG01407	1/4"	PG07	6,0	5	20	50
M-ÜGAPG01409	1/4"	PG09	6,0	5	20	50
M-ÜGAPG03809	3/8"	PG09	6,0	5	20	50
M-ÜGAPG03811	3/8"	PG11	6,0	5	24	50
M-ÜGAPG01211	1/2"	PG11	8,0	5	24	50
M-ÜGAPG01213	1/2"	PG13	8,0	5	24	50
M-ÜGAPG01216	1/2"	PG16	8,0	5	30	50
M-ÜGAPG03413	3/4"	PG13	8,0	1	30	50
M-ÜGAPG03416	3/4"	PG16	8,0	1	30	50
M-ÜGAPG03421	3/4"	PG21	8,0	5	35	50
M-ÜGAPG10021	1"	PG21	11,0	1	35	25
M-ÜGAPG10029	1"	PG29	11,0	5	35	25
M-ÜGAPG11429	1 1/4"	PG29	11,0	1	45	10
M-ÜGAPG11436	1 1/4"	PG36	11,0	5	51	10
M-ÜGAPG11236	1 1/2"	PG36	11,0	5	51	5
M-ÜGAPG11242	1 1/2"	PG42	11,0	5	64	5
M-ÜGAPG20042	2"	PG42	11,0	1	64	5
M-ÜGAPG20048	2"	PG48	11,0	5	64	5

Aussengewinde (AG) Zoll
Innengewinde (IG) PG

Male thread (AG) GAS
Female thread (IG) PG

Verbindungs- muffe

TYP M-MN

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Connecting Sleeve

TYPE M-MN

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART METRISCH

Art. Nr. Art. No.	IG Female	L mm	SW mm	VPE Stk. Unit pcs.
M-MNM16E	M16	18	19	20
M-MNM20E	M20	22	24	20
M-MNM25E	M25	24	30	10
M-MNM32E	M32	30	38	10
M-MNM40E	M40	37	45	5
M-MNM50E	M50	37	52	5
M-MNM63E	M63	36	70	5



GEWINDEART PG

Art. Nr. Art. No.	IG Female	L mm	SW mm	VPE Stk. Unit pcs.
M-MN01	PG09	18	19	20
M-MN02	PG11	22	22	20
M-MN03	PG13,5	22	24	20
M-MN04	PG16	24	26	20
M-MN05	PG21	24	32	10
M-MN06	PG29	30	42	10
M-MN07	PG36	34	50	5
M-MN08	PG42	35	58	5
M-MN09	PG48	45	64	5



GEWINDEART ZOLL

Art. Nr. Art. No.	IG Female	L mm	SW mm	VPE Stk. Unit pcs.
M-MN1E	1/4"	15	15	20
M-MN2E	3/8"	18	19	20
M-MN3E	1/2"	22	24	20
M-MN4E	3/4"	24	30	10
M-MN5E	1"	30	38	10
M-MN6E	1 1/4"	37	45	5
M-MN7E	1 1/2"	35	52	5
M-MN8E	2"	35	65	5

Gewindenippel

TYP M-N

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Nipple

TYPE M-N

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	L mm	ID mm	VPE Stk. Unit pcs.
M-NM16	M16	22	12	20
M-NM20	M20	22	15	20
M-NM25	M25	25	20	20
M-NM32	M32	28	25	10
M-NM40	M40	38	34	5
M-NM50	M50	40	40	5
M-NM63	M63	46	57	5



GEWINDEART PG

Art. Nr. Art. No.	AG Male	L mm	ID mm	VPE Stk. Unit pcs.
M-NP001	PG07	16	9	20
M-NP002*	PG09	17	11	20
M-NP003	PG11	17	14	20
M-NP004	PG13,5	17	16	20
M-NP005	PG16	17	18	20
M-NP006	PG21	21	23	10
M-NP007	PG29	23	31	10
M-NP008	PG36	25	39	5
M-NP009*	PG42	28	45	2
M-NP010	PG48	31	53	2



GEWINDEART ZOLL

Art. Nr. Art. No.	AG Male	L mm	ID mm	VPE Stk. Unit pcs.
M-NG02	1/4"	19	9	20
M-NG03	3/8"	22	12	20
M-NG04*	1/2"	22	15	20
M-NG05*	3/4"	25	20	20
M-NG06*	1"	28	25	10
M-NG07*	1 1/4"	38	34	5
M-NG08*	1 1/2"	40	40	5
M-NG10*	2"	44	53	2
M-NG11*	2 1/2"	40	66	-
M-NG12*	3"	64	80	-

* Stahl verzinkt
*galvanized steel

Verschlusssschraube TYP M-VSC

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Plug TYPE M-VSC

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	GL / AG mm	L mm	AD mm	VPE Stk. Unit pcs.
M-VSCM12	M12	5,0	7,5	14,0	100
M-VSCM16	M16	5,0	8,0	18,0	100
M-VSCM20	M20	6,0	9,5	22,0	100
M-VSCM25	M25	7,0	11,0	28,0	100
M-VSCM32	M32	8,0	12,0	35,0	50
M-VSCM40	M40	8,0	13,0	43,0	50
M-VSCM50	M50	9,0	15,0	53,0	25
M-VSCM63	M63	10,0	16,0	66,0	10

Auch mit montiertem O-Ring lieferbar (Temperaturbereich bis +100°C und Schutzart IP68). In Edelstahl 1.4305 (Bauform: sechskant) mit montiertem O-Ring aus Silikon lieferbar (Temperaturbereich von -60°C bis +180°C und Schutzart IP68).

Also available with mounted O-ring (Temperature Range up to +100°C and Protection Rating IP68). Available in stainless steel AISI 303 (Shape: hexagonal) with mounted O-ring in silicone (Temperature range -60°C up to +180°C and protection Rating IP68).



GEWINDEART PG

Art. Nr. Art. No.	AG Male	GL / AG mm	L mm	AD mm	VPE Stk. Unit pcs.
M-VSCPG07	PG07	5,0	8,0	14,0	100
M-VSCPG09	PG09	6,0	9,0	17,0	100
M-VSCPG11	PG11	6,0	9,0	20,0	100
M-VSCPG13	PG13,5	6,5	9,5	22,0	100
M-VSCPG16	PG16	6,5	9,5	24,0	100
M-VSCPG21	PG21	7,0	11,0	30,0	50
M-VSCPG29	PG29	8,0	12,0	39,0	25
M-VSCPG36	PG36	9,0	15,0	50,0	10
M-VSCPG42	PG42	10,0	16,0	57,0	10
M-VSCPG48	PG48	10,0	16,0	64,0	10

Verschlusssschraube TYP M-TPE

Material: Messing vernickelt
Temperaturbereich: bis +200°C

Plug TYPE M-TPE

Material: nickel-plated brass
Temperature range: up to +200°C



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	GL mm	L mm	SW mm	VPE Stk. Unit pcs.
M-TPE16	M16	8	13	19	20
M-TPE20	M20	8	13	22	20
M-TPE25	M25	9	14	30	10
M-TPE32	M32	9	14	35	10
M-TPE40	M40	9	17	42	5
M-TPE50	M50	13	23	55	5
M-TPE63	M63	16	24	81	2



GEWINDEART PG

Art. Nr. Art. No.	AG Male	GL mm	L mm	SW mm	VPE Stk. Unit pcs.
M-TPE01	PG07	8	12	14	20
M-TPE02	PG09	8	12	17	20
M-TPE03	PG11	8	13	20	20
M-TPE04	PG13,5	9	14	22	20
M-TPE05	PG16	9	14	24	20
M-TPE06	PG21	10	15	30	10
M-TPE07	PG29	10	15	38	10
M-TPE08*	PG36	13	20	50	5
M-TPE09*	PG42	12	21	55	5
M-TPE10*	PG48	15	25	60	2



GEWINDEART ZOLL

Art. Nr. Art. No.	AG Male	GL mm	L mm	SW mm	VPE Stk. Unit pcs.
M-TPE1	1/4"	8	12,0	15	20
M-TPE2	3/8"	8	13,0	19	20
M-TPE3	1/2"	9	14,0	24	20
M-TPE4	3/4"	9	14,0	30	10
M-TPE5	1"	10	15,5	38	10
M-TPE6*	1 1/4"	15	22,0	42	5
M-TPE7*	1 1/2"	15	22,0	50	5
M-TPE8*	2"	17	25,0	60	2
M-TPE9*	2 1/2"	19	29,0	75	2

* Stahl verzinkt
*galvanized steel

Winkel 90° TYP M-WM

Material: Zinkdruckguss
Temperaturbereich: -20°C bis +100°C

Anwendung:

Durch die kompakte Bauweise ist ein Einsatz in Installationsbereichen mit engen Platzverhältnissen möglich. Die integrierte Feststellmutter ermöglicht die Einstellung in jede Richtung.

Elbow 90° TYPE M-WM

Material: zinc die-casting
Temperature range: -20°C up to +100°C

Application:

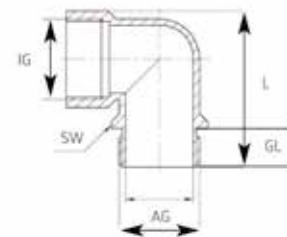
Due to compact construction dimensions application in areas with limited space is possible. The integrated fixing nut allows for direction adjustment.



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	IG Female	ID mm	L mm	GL mm	SW mm	VPE Stk. Unit pcs.
M-WM16	M16	M16	12,2	38,0	16,0	22	100
M-WM20	M20	M20	16,0	42,0	16,0	26	50
M-WM25	M25	M25	21,0	48,5	16,5	34	50
M-WM32	M32	M32	27,6	57,5	16,5	40	25
M-WM40	M40	M40	35,0	67,0	19,0	50	10

Technische Zeichnung
Engineering drawing



Winkel 90° TYP M-WPG

Material: Zinkdruckguss
Temperaturbereich: -20°C bis +100°C

Elbow 90° TYPE M-WPG

Material: zinc die-casting
Temperature range: -20°C up to +100°C



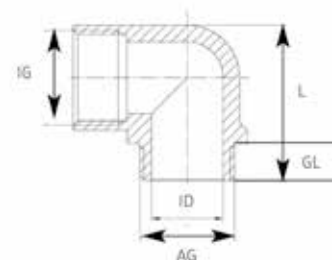
GEWINDEART PG

Art. Nr. Art. No.	AG Male	IG Female	ID mm	L mm	GL mm	VPE Stk. Unit pcs.
M-WPG09	PG09	PG09	11,5	25,0	6,0	100
M-WPG11	PG11	PG11	14,3	28,0	6,0	50
M-WPG13	PG13,5	PG13,5	16,0	30,5	6,5	50
M-WPG16	PG16	PG16	18,5	33,5	6,5	50
M-WPG21	PG21	PG21	23,8	38,8	6,8	25
M-WPG29	PG29	PG29	32,0	52,0	8,0	10

Auf Anfrage:
mit langem Gewinde
lieferbar

On request:
available with long thread

Technische Zeichnung
Engineering drawing

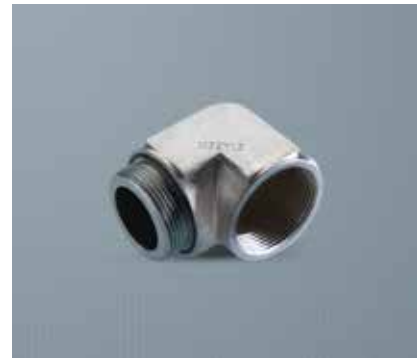


Winkel 90° TYP M-UW

Material: Zinkdruckguss
Temperaturbereich: -20°C bis +100°C

Elbow 90° TYPE M-UW

Material: zinc die-casting
Temperature range: -20°C up to +100°C



GEWINDEART METRISCH

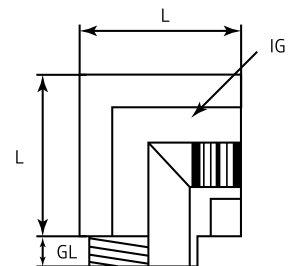
Art. Nr. Art. No.	AG Male	IG Female	L mm	GL mm	VPE Stk Unit pcs.
M-UWM16	M16	M16	25,0	20	25
M-UWM20	M20	M20	30,0	24	25
M-UWM25	M25	M25	35,0	30	25
M-UWM32	M32	M32	45,0	38	10



GEWINDEART PG

Art. Nr. Art. No.	AG Male	IG Female	L mm	GL mm	VPE Stk Unit pcs.
M-UWPG07	PG07	PG07	20,0	16	25
M-UWPG09	PG09	PG09	23,0	19	25
M-UWPG11	PG11	PG11	28,0	23	25
M-UWPG13	PG13,5	PG13,5	32,0	25	25
M-UWPG16	PG16	PG16	32,0	27	10
M-UWPG21	PG21	PG21	38,0	35	10
M-UWPG29	PG29	PG29	46,0	41	5
M-UWPG36	PG36	PG36	67,0	55	5

Technische Zeichnung
Engineering drawing



Feststelladapter TYP M-FV

Material: Messing vernickelt
Temperaturbereich: -20°C bis +100°C

Anwendung:

Ermöglicht genaue Positionierung von 45°/90° Bogen- und Winkelverschraubungen während der Montage.

Locking Device TYPE M-FV

Material: nickel-plated brass
Temperature range: -20°C up to +100°C

Application:

Accurate positioning of 45°/90° elbows and fittings while mounting.



GEWINDEART METRISCH

Art. Nr. Art. No.	AG Male	IG Female	GL mm	SW mm	VPE Stk Unit pcs.
M-FVM16	M16	M16	6,0	18	25
M-FVM20	M20	M20	6,5	22	25
M-FVM25	M25	M25	7,0	28	25
M-FVM32	M32	M32	8,0	35	10



GEWINDEART PG

Art. Nr. Art. No.	AG Male	IG Female	GL mm	SW mm	VPE Stk Unit pcs.
M-FVPG09	PG09	PG09	6,0	17	25
M-FVPG11	PG11	PG11	6,5	20	25
M-FVPG13	PG13,5	PG13,5	6,5	22	25
M-FVPG16	PG16	PG16	6,5	24	25
M-FVPG21	PG21	PG21	7,0	30	25
M-FVPG29	PG29	PG29	8,0	40	10

Flanschwinkel

TYP M-FLW

Material: Zinkdruckguss
Temperaturbereich: -20°C bis +100°C

Anwendung:

Kurzer Flanschwinkel aus Zinkdruckguss um Kabel im rechten Winkel aus Schaltschränken oder Maschinengehäusen zu führen. Ein eingelegter O-Ring dichtet den Flansch zum Gehäuse hin ab.

Flanged Angle

TYPE M-FLW

Material: zinc die-casting
Temperature range: -20°C up to +100°C

Application:

Short flange angle made of zinc die-casting conduct cables at right angles from switch cabinets or machine housings. An inserted O-ring seals the flange to the housing.



GEWINDEART METRISCH

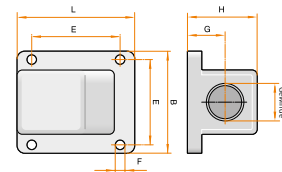
Art. Nr. Art. No.	Gewinde Thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk Unit pcs.
M-FLWM16	M16	48,0	48,0	30,0	37,0	4,3	15,5	10
M-FLWM20	M20	53,0	56,0	35,0	44,0	5,5	18,0	10
M-FLWM25	M25	63,0	65,0	42,0	54,0	5,5	22,5	10
M-FLWM32	M32	70,0	75,0	52,0	60,0	5,5	27,0	5
M-FLWM40	M40	71,0	75,0	52,0	60,0	5,5	27,0	5
M-FLWM50	M50	89,0	93,0	69,0	72,0	6,5	33,5	2
M-FLWM63	M63	96,0	114,0	74,0	84,0	6,5	37,0	1



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk Unit pcs.
M-FLWPG09	PG09	45,0	48,0	30,0	37,0	4,3	15,5	10
M-FLWPG11	PG11	45,0	48,0	30,0	37,0	4,3	15,5	10
M-FLWPG13	PG13,5	53,0	56,0	35,0	44,0	5,5	19,0	10
M-FLWPG16	PG16	53,0	56,0	35,0	44,0	5,5	19,0	10
M-FLWPG21	PG21	63,0	65,0	42,0	54,0	5,5	23,0	5
M-FLWPG29	PG29	71,0	75,0	52,0	60,0	5,5	27,0	5
M-FLWPG36	PG36	89,0	94,0	69,0	72,0	6,5	34,0	2
M-FLWPG42	PG42	96,0	114,0	74,0	84,0	6,5	36,5	1
M-FLWPG48	PG48	96,0	114,0	74,0	84,0	6,5	37,0	1

Technische Zeichnung Engineering drawing



Flanschwinkel

TYP M-FLWL

Material: Zinkdruckguss
Temperaturbereich: -20°C bis +100°C

Anwendung:

Langer Flanschwinkel aus Zinkdruckguss um Kabel im rechten Winkel aus Schaltschränken oder Maschinengehäusen zu führen. Ein eingelegter O-Ring dichtet den Flansch zum Gehäuse hin ab.

Flanged Angle

TYPE M-FLWL

Material: zinc die-casting
Temperature Range: -20°C up to +100°C

Application:

Long flange angle made of zinc die-casting conduct cables at right angles from switch cabinets or machine housings. An inserted O-ring seals the flange to the housing.



GEWINDEART METRISCH

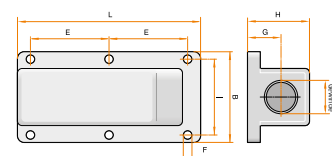
Art. Nr. Art. No.	Gewinde Thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk Unit pcs.
M-FLWLM40	M40	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLM50	M50	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLM63	M63	95,0	203,0	84,0	74,0	6,5	38,0	1



GEWINDEART PG

Art. Nr. Art. No.	Gewinde Thread	B mm	L mm	H mm	E mm	F mm	G mm	VPE Stk Unit pcs.
M-FLWLPG29	PG29	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLPG36	PG36	84,0	170,0	71,5	68,0	6,5	33,0	1
M-FLWLPG42	PG42	95,0	208,0	84,0	74,5	6,5	39,0	1
M-FLWLPG48	PG48	95,0	208,0	84,0	74,5	6,5	39,0	1

Technische Zeichnung Engineering drawing



Schellen

TYP AP-FAN-LSGS-FAVT

Material: Stahl verzinkt
Edelstahl

AP Schlauch-Abschlussring
FAN Edelstahl Schneckengewindeschelle
FAVT Schneckengewindeschelle
mit Erdungsschraube
LSGL Schneckengewindeschelle Chromstahl

Clamps

TYPE AP-FAN-LSGS-FAVT

Material: steel
stainless steel

AP Protection ring
FAN Stainless steel hose clamp
FAVT Stainless steel clamp with earthing screw
LSGL Galvanised steel clamp



Art. Nr. Art. No.	min. Schlauch / conduit	max. Schlauch / conduit	VPE Stk Unit pcs.
AP10	10	15	20
AP12	12	18	20
AP15	15	21	20
AP20	20	27	10
AP27	27	35	10
AP36	36	45	5
AP40	40	50	5
AP47	47	57	5
AP58	58	70	2

Art. Nr. Art. No.	min. Range	max. Range	Band mm	VPE Stk Unit pcs.
FAN1	11	17	9	100
FAN2	13	20	9	100
FAN3	19	28	9	50
FAN4	26	38	9	25
FAN5	32	44	9	25
FAN6	38	50	9	25
FAN7	44	56	9	25
FAN8	58	75	9	10

LSGL Art. Nr. Art. No.	min. Range	max. Range	Band mm	VPE Stk Unit pcs.
LSGL41001	8	12	9	100
LSGL41002	10	16	9	100
LSGL41003	12	20	9	100
LSGL41004	12	22	9	100
LSGL41005	16	25	9	100
LSGL41006	20	32	9	100
LSGL41007	23	35	9	100
LSGL41008	25	40	9	100
LSGL41009	30	45	9	100
LSGL41010	32	50	9	50
LSGL41011	40	60	9	50
LSGL41012	50	70	9	50
LSGL41013	60	80	9	50
LSGL41014	70	90	9	25
LSGL41015	80	100	9	25
LSGL41016	90	110	9	25

Art. Nr. Art. No.	min. Range	max. Range	Band mm	VPE Stk Unit pcs.
FAVT01	13	20	9	100
FAVT02	19	28	9	50
FAVT03	32	44	9	25
FAVT04	44	56	9	25
FAVT05	58	75	9	10

Abzweigkasten

TYP C1 - C2A - C3

Material: Aluguss
Dichtung: Elastomer
Schutzart: IP65
Temperaturbereich: -40°C bis +100°C

Junction Box

TYPE C1 - C2A - C3

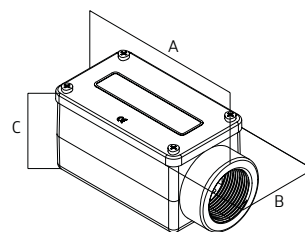
Material: aluminum cast
Clamping insert: Elastomer
Protection rating: IP65
Temperature range: -40°C up to +100°C



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C11009	1/4"	C101001	82	35	34	10
M16	C1100M16	PG11	C110011	3/8"	C101002	82	35	34	10
M20	C1110M20	PG13,5	C111013	1/2"	C101101	115	45	44	10
		PG16	C111016			115	45	44	10
M25	C1110M25	PG21	C111021	3/4"	C101102	115	45	44	10
M32	C1120M32	PG29	C112029	1"	C10120	128	55	54	5
M40	C1130M40			1 1/4"	C101301	146	70	70	5
M50	C1130M50	PG36	C113036	1 1/2"	C101302	146	70	70	5
		PG48	C114048	2"	C101402	160	80	80	2



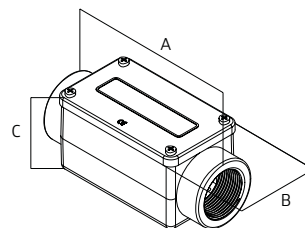
Technische Zeichnung C1 (1 Ausgang)
 Engineering drawing C1 (1 Way)



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C2A20009	1/4"	C2A02001	94	35	34	10
M16	C2A200M16	PG11	C2A20011	3/8"	C2A02002	94	35	34	10
M20	C2A210M20	PG13,5	C2A21013	1/2"	C2A02101	130	45	44	10
		PG16	C2A21016			130	45	44	10
M25	C2A210M25	PG21	C2A21021	3/4"	C2A02102	130	45	44	10
M32	C2A220M32	PG29	C2A22029	1"	C2A0220	150	55	54	5
M40	C2A230M40			1 1/4"	C2A02301	170	70	70	5
M50	C2A230M50	PG36	C2A23036	1 1/2"	C2A02302	170	70	70	5
		PG48	C2A24048	2"	C2A02402	190	80	80	2
				2 1/2"	C2A0250	310	110	102	1
				3"	C2A0260	310	110	118	1



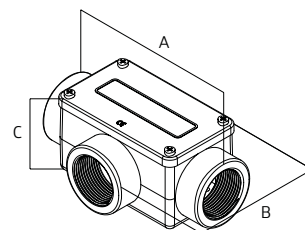
Technische Zeichnung C2A (2 Ausgänge / gerade)
 Engineering drawing C2A (2 Ways / straight)



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C350009	1/4"	C305001	94	46	34	10
M16	C3500M16	PG11	C350011	3/8"	C305002	94	46	34	10
M20	C3510M20	PG13,5	C351013	1/2"	C305101	130	59	44	10
		PG16	C351016			130	59	44	10
M25	C3510M25	PG21	C351021	3/4"	C305102	130	59	44	10
M32	C3520M32	PG29	C352029	1"	C30520	150	76	54	5
M40	C3530M40			1 1/4"	C305301	170	95	70	5
M50	C3530M50	PG36	C353036	1 1/2"	C305302	170	95	70	5
		PG48	C354048	2"	C305402	190	110	80	2
				2 1/2"	C30550	310	144	102	1
				3"	C30560	310	144	118	1



Technische Zeichnung C3 (3 Ausgänge)
 Engineering drawing C3 (3 Ways)



Abzweigkasten

TYP C2 - C2D - C2S - C4

Material: Aluguss
Dichtung: Elastomer
Schutzart: IP65
Temperaturbereich: -40°C bis +100°C

Junction Box

TYPE C2 - C2D - C2S - C4

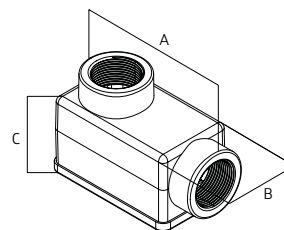
Material: aluminum cast
Sealing: Elastomer
Protection rating: IP65
Temperature range: -40°C up to +100°C



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C24009	1/4"	C204001	82	35	46	10
M16	C2400M16	PG11	C240011	3/8"	C204002	82	35	46	10
M20	C2410M20	PG13,5	C241013	1/2"	C204101	115	45	59	10
		PG16	C241016			115	45	59	10
M25	C2410M25	PG21	C241021	3/4"	C204102	115	45	59	10
M32	C2420M32	PG29	C242029	1"	C20420	128	55	76	5
M40	C2430M40			1 1/4"	C204301	146	70	95	5
M50	C2430M50	PG36	C243036	1 1/2"	C204302	146	70	95	5
		PG48	C244048	2"	C204402	160	80	110	2
				2 1/2"	C20450	276	110	136	1
				3"	C20460	276	110	152	1



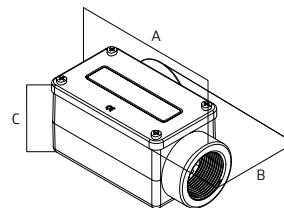
Technische Zeichnung C2 (2 Ausgänge / 90°)
 Engineering drawing C2 (2 Ways / 90°)



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C2D9009	1/4"	C2D09001	82	46	34	10
M16	C2D900M16	PG11	C2D90011	3/8"	C2D09002	82	46	34	10
M20	C2D910M20	PG13,5	C2D91013	1/2"	C2D09101	115	59	44	10
		PG16	C2D91016			115	59	44	10
M25	C2D910M25	PG21	C2D91021	3/4"	C2D09102	115	59	44	10
M32	C2D920M32	PG29	C2D92029	1"	C2D0920	128	76	54	5
M40	C2D930M40			1 1/4"	C2D09301	146	95	70	5
M50	C2D930M50	PG36	C2D93036	1 1/2"	C2D09302	146	95	70	5
		PG48	C2D94048	2"	C2D09402	160	110	80	2
				2 1/2"	C2D09050	276	144	102	1
				3"	C2D09060	276	144	118	1



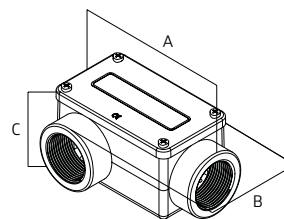
Technische Zeichnung C2D (2 Ausgänge / nach rechts)
 Engineering drawing C2D (2 Ways / to the right)



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C2S10009	1/4"	C2S010001	82	46	34	10
M16	C2S1000M16	PG11	C2S100011	3/8"	C2S010002	82	46	34	10
M20	C2S1010M20	PG13,5	C2S101013	1/2"	C2S010101	115	59	44	10
		PG16	C2S101016			115	59	44	10
M25	C2S1010M25	PG21	C2S101021	3/4"	C2S010102	115	59	44	10
M32	C2S1020M32	PG29	C2S102029	1"	C2S01020	128	76	54	5
M40	C2S1030M40			1 1/4"	C2S010301	146	95	70	5
M50	C2S1030M50	PG36	C2S103036	1 1/2"	C2S010302	146	95	70	5
		PG48	C2S104048	2"	C2S010402	160	110	80	2
				2 1/2"	C2S01050	276	144	102	1
				3"	C2S01060	276	144	118	1



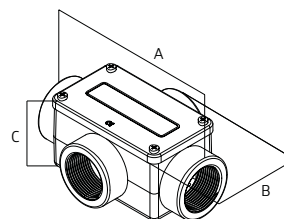
Technische Zeichnung C2S (2 Ausgänge / nach links)
 Engineering drawing C2S (2 Ways / to the left)



Metrisch Metric	Art. Nr. M Art. No. M	PG PG	Art. Nr. PG Art. No. PG	Zoll GAS	Art. Nr. Zoll Art. No. GAS	A mm	B mm	C mm	VPE Stk. Unit pcs.
		PG09	C46009	1/4"	C406001	94	57	34	10
M16	C4600M16	PG11	C460011	3/8"	C406002	94	57	34	10
M20	C4610M20	PG13,5	C461013	1/2"	C406101	130	74	44	10
		PG16	C461016			130	74	44	10
M25	C4610M25	PG21	C461021	3/4"	C406102	130	74	44	10
M32	C4620M32	PG29	C462029	1"	C40620	150	97	54	5
M40	C4630M40			1 1/4"	C406301	170	120	70	5
M50	C4630M50	PG36	C463036	1 1/2"	C406302	170	120	70	5
		PG48	C464048	2"	C406402	190	140	80	2
				2 1/2"	C40650	310	178	102	1
				3"	C40660	310	178	118	1



Technische Zeichnung C4 (4 Ausgänge)
 Engineering drawing C4 (4 Ways)



Metall-Gehäuse

TYP LA
TYP LIG

Material: LA - Aluminium,
LIG - Edelstahl
Dichtung: Polyurethan
Schutzart: IP66
IP68 / IP69K auf Anfrage
Temperaturbereich: -40°C bis +90°C

Metal-Boxes

TYPE LA
TYPE LIG

Material: LA - Aluminium
LIG - Stainless steel
Clamping insert: Polyurethan
Protection rating: IP66
on request IP68 / IP69K
Temperature range: -40°C up to +90°C



! LIG - mit Befestigungsbohrung
LIG - with fixing wholes

! LIGO - ohne Befestigungsbohrungen
LIGO - without fixing wholes



Art. Nr. LA Art. No. LA	Länge mm Length mm	Breite mm Width mm	Höhe mm Height mm	VPE Stk. Unit pcs.
LA40	50	45	30	1
LA60	58	64	34	1
LA61	98	64	34	1
LA62	150	64	34	1
LA64	185	64	34	1
LA80	75	80	57	1
LA81	125	80	57	1
LA82	175	80	57	1
LA83	250	80	52	1
LA102	100	100	80	1
LA103	160	100	80	1
LA101	200	100	80	1
LA100	230	100	110	1
LA122	122	120	80	1
LA120	122	120	90	1
LA124	220	120	80	1
LA121	220	120	90	1
LA128	220	120	120	1
LA126	360	120	80	1
LA140	140	140	90	1
LA141	200	140	90	1
LA160	160	160	90	1
LA161	260	160	90	1
LA162	360	160	90	1
LA163	560	160	90	1
LA181	180	180	100	1
LA180	280	180	100	1
LA234	200	230	110	1
LA235	200	230	180	1
LA230	280	230	110	1
LA231	330	230	110	1
LA236	330	230	180	1
LA232	400	230	110	1
LA238	400	230	224	1
LA233	600	230	110	1
LA310	400	310	110	1
LA315	400	310	140	1
LA311	400	310	180	1
LA316	400	310	226	1
LA312	600	310	110	1
LA313	600	310	180	1
LA600	600	600	200	1

Weitere Größen auf Anfrage.
Weitere Dichtungen verfügbar:
CR (-40°C bis +100°C)
Silikon (-60°C bis +130°C)

Erhältliches Zubehör:
z.B. Tragschienen, Erdungsschienen, Montageplatten, Innen- und Außengelenke

Auf Wunsch kann auch eine Bearbeitung und/oder Bestückung des Gehäuses nach Ihren Vorgaben vorgenommen werden.

Additional sizes on request.
Other sealings available:
CR (-40°C up to +100°C)
Silicone (-60°C up to +130°C)

Accessories available:
e.g. mounting rails, earthing rails, mounting plates, inner and outer joints

Modifications and assembly installations on request.



Art. Nr. LIG Art. No. LIG	Art. Nr. LIGO Art. No. LIGO	Länge mm Length mm	Breite mm Width mm	Höhe mm Height mm	VPE Stk. Unit pcs.
LIG100	LIGO100	100	100	61	1
LIG101	LIGO101	150	100	61	1
LIG150	LIGO150	150	150	81	1
LIG102		200	100	61	1
LIG200	LIGO200	200	200	81	1
LIG201	LIGO201	200	200	121	1
LIG151		300	150	81	1
LIG202		300	200	81	1
LIG203	LIGO203	300	200	121	1
LIG300		300	300	121	1
LIG301		300	300	161	1
LIG380		380	380	161	1
LIG152		400	150	81	1
LIG204		400	200	121	1
LIG302		400	300	161	1
LIG303		500	300	161	1
LIG400		500	400	161	1
LIG600		600	200	121	1

Weitere verfügbare Edelstahl-Gehäuse:
Typ LIGS: Industriegehäuse mit Scharnier (verfügbare Maße: 200x250x97 mm bis 600x380x217 mm)

Typ LKSS: Edelstahl-Kleinschaltschrank mit scharnierter Tür (verfügbare Maße: 200x300x155 mm bis 600x760x210 mm)

Weitere Größen und EMV-Ausführung auf Anfrage.
Weitere Dichtungen verfügbar: Polyurethan (PUR)

Other available Stainless steel boxes:
Type LIGS: Industrial housing with hinge (available sizes: 200x250x97 mm to 600x380x217 mm)

Type LKSS: Stainless steel compact cabinet with hinged door (available sizes: 200x300x155 mm to 600x760x210 mm)

Additional sizes and emc-versions on request.
Other sealings also available: polyurethan (PUR)

Kunststoff-Gehäuse

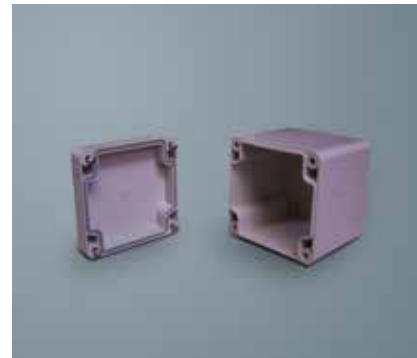
TYP LM - LT - LP

Material:	LM - Makrolon, LT - Terluran (ABS) LP - Polyester
Dichtung:	LM - Neopren LT - Neopren LP - Polyurethan
Temperaturbereich:	LM: -40°C bis +120°C LT: -40°C bis +80°C LP: -40°C bis +120°C
Schutzart:	IP65 LP - IP66

Plastic-Box

TYPE LM - LT - LP

Material:	LM - Makrolon LT- Terluran (ABS) LP - Polyester
Clamping insert:	LM - Neoprene LT - Neoprene LP - Polyurethane
Temperature range:	LM: -40°C up to +120°C LT: -40°C up to +80°C LP: -40°C up to +120°C
Protection rating:	IP65 LP - IP66



Auf Anfrage:
mit Bearbeitung

On request:
With adaptation



Art. Nr. LM Art. No. LM	Art. Nr. LT Art. No. LT	Länge mm Length mm	Breite mm Width mm	Höhe mm Height mm	VPE Stk. Unit pcs.
LM50	LT50	52	50	35	1
LM51	LT51	65	50	35	1
LM80	LT80	82	80	55	1
LM81	LT81	82	80	85	1
LM82	LT82	120	80	55	1
LM83	LT83	120	80	85	1
LM84	LT84	160	80	55	1
LM85	LT85	160	80	85	1
LM120	LT120	122	120	55	1
LM123	LT123	122	120	85	1
LM125	LT125	160	120	90	1
LM121	LT121	200	120	75	1
LM127	LT127	200	120	90	1
LM122	LT122	240	120	100	1
LM150	LT150	200	150	75	1
LM160	LT160	240	160	90	1
LM163	LT163	240	160	120	1
LM161	LT161	250	160	90	1
LM162	LT162	250	160	120	1
LM200	LT200	360	200	150	1
LM230	LT230	300	230	86	1
LM231	LT231	300	230	110	1

Mit Klarsichtdeckel lieferbar.
Auch mit Schraubverschluss lieferbar.
Sonderfarben, andere Größen, höhere
IP-Schutzarten und UL/CSA-Zulassung
auf Anfrage.

Available with clear lid.
Also available as screw closure.
Special colours, additional sizes, higher
IP-rates and UL/CSA-recognition on
request.



Art. Nr. LP Art. No. LP	Länge mm Length mm	Breite mm Width mm	Höhe mm Height mm	VPE Stk. Unit pcs.
LP50	55	55	37	1
LP51	55	55	59	1
LP75	80	75	55	1
LP76	80	75	75	1
LP77	110	75	55	1
LP78	110	75	75	1
LP79	160	75	55	1
LP73	160	75	75	1
LP80	190	75	55	1
LP81	190	75	75	1
LP82	230	75	55	1
LP83	230	75	75	1
LP101	320	100	80	1
LP120	122	120	90	1
LP121	220	120	90	1
LP160	160	160	90	1
LP161	260	160	90	1
LP162	360	160	90	1
LP163	560	160	90	1
LP251	255	250	120	1
LP252	255	250	160	1
LP250	400	250	120	1
LP253	400	250	160	1
LP254	600	250	120	1
LP360	360	360	90	1
LP400	400	405	120	1
LP401	401	406	201	1

Weitere Größen auf Anfrage.
Weitere Dichtungen verfügbar:
CR (-40°C bis +100°C)
Silikon (-60°C bis +130°C)

Additional sizes on request.
Other sealings available:
CR (-40°C up to +100°C)
Silicone (-60°C up to +130°C)

ISO-Gewinde nach DIN 60423

ISO thread according to EN 60423

ISO-Gewinde ISO thread	Steigung mm Pitch mm	Außendurchmesser mm Outside diameter mm	Kerndurchmesser mm Core diameter mm	Durchgangsbohrung mm Clearance hole mm
10	1,0	10	9,0	10,2
12	1,5	12	10,5	12,2
16	1,5	16	14,5	16,2
20	1,5	20	18,5	20,2
25	1,5	25	23,5	25,2
32	1,5	32	30,5	32,2
40	1,5	40	38,5	40,2
50	1,5	50	48,5	50,2
63	1,5	63	61,5	63,2
75	1,5	75	73,5	75,2
80	2,0	80	78,0	80,2
90	2,0	90	88,0	90,2

PG-Gewinde nach DIN 40430

PG thread according to EN 40430

PG-Gewinde PG thread	Steigung mm Pitch mm	Außendurchmesser mm Outside diameter mm	Kerndurchmesser mm Core diameter mm	Durchgangsbohrung mm Clearance hole mm
7	1,270	12,5	11,28	12,7
9	1,410	15,2	13,86	15,4
11	1,410	18,6	17,26	18,8
13	1,410	20,4	19,06	20,7
16	1,410	22,5	21,16	22,8
21	1,587	28,3	26,78	28,6
29	1,587	37,0	35,48	37,4
36	1,587	47,0	45,58	47,5
42	1,587	54,0	52,48	54,5
48	1,588	59,3	57,48	59,8

ZOLL-Gewinde zylindrisch ISO 228-1

GAS thread ISO 228-1

ZOLL-Gewinde GAS thread	Steigung mm Pitch mm	Außendurchmesser mm Outside diameter mm	Kerndurchmesser mm Core diameter mm	Durchgangsbohrung mm Clearance hole mm
1/4"	1,337	13,157	11,145	13,4
3/8"	1,337	16,662	14,950	27,0
1/2"	1,814	20,955	18,631	21,3
3/4"	1,814	26,441	24,117	26,8
1"	2,309	33,249	30,291	33,7
1 1/4"	2,309	41,910	38,952	42,4
1 1/2"	2,309	47,803	44,825	48,3
2"	2,309	59,614	56,656	60,2
2 1/2"	2,309	75,184	72,226	75,7
3"	2,309	87,884	84,926	88,5
3 1/2"	2,309	100,330	97,372	101,0
4"	2,309	113,030	110,072	114,0

NPT (konisch) Rohrgewinde (Amerika)

NPT (conical) pipe thread (America)

NPT-Gewinde NPT thread	Steigung mm Pitch mm	Außendurchmesser mm Outside diameter mm	Kerndurchmesser mm Core diameter mm	Durchgangsbohrung mm Clearance hole mm
1/4"	1,411	13,616	18	13,4
3/8"	1,411	17,055	18	27,0
1/2"	1,814	21,223	14	21,3
3/4"	1,814	26,568	14	26,8
1"	2,208	33,227	11 1/2	33,7
1 1/4"	2,208	41,984	11 1/2	42,4
1 1/2"	2,208	48,053	11 1/2	48,3
2"	2,208	60,091	11 1/2	60,2

Gebrauchsempfehlungen - JAW-FIT Suggestions for correct use - JAW-FIT

IP66



Das Rohr in das Verbindungsstück hineinstecken und bis zum Anschlag drehen.

Push the conduit into the connector and twist it fully to the end.



Das Rohr leicht herausziehen, um sicherzustellen, dass das JAW-FIT System richtig eingerastet ist.

Slightly pull back the conduit to ensure that the JAW-FIT System is fully engaged.



Benutzen Sie ein einfaches Werkzeug OT0748 zum erneuten Öffnen.

Use an easy tool OT0748 to reopen.

IP68



Legen Sie die IP68 Verschlusskappe auf das Endstück des Rohres.

Fit the IP68 seal cap onto the cut end of the conduit.



Drehen Sie den JAW-FIT Verschlussring auf die Öffnung. Drücken Sie das Rohr mit der angebrachten Verschlusskappe auf die Verschraubung. Prüfen Sie, ob das Rohr komplett in die Verschraubung gedrückt wurde.

Twist the JAW-FIT locking ring to the opening position. Push the conduit with applied seal cap into the connector. Make sure that the conduit is fully pushed into the connector.



Rasten Sie das Rohr ein, indem Sie das JAW-FIT System zurück zur Verschlussstelle drehen.*

Engage the conduit twisting the JAW-FIT system back to the locking position.*



Das Rohr leicht herausziehen, um sicherzustellen, dass das JAW-FIT System richtig eingerastet ist.

Slightly pull back the conduit to ensure that the JAW-FIT System is fully engaged.



Benutzen Sie ein einfaches Werkzeug zum erneuten Öffnen.

Use an easy tool to reopen.

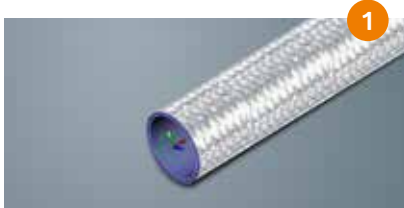
* Aus Sicherheitsgründen wird das JAW-FIT Element nicht passen, falls die Verschlusskappe nicht richtig angebracht sein sollte.

* For safety reasons the JAW-FIT element will not fit if the seal cap is not fully installed.

Gebrauchsempfehlungen - Metallverschraubungen

Suggestions for correct use - Metal fittings

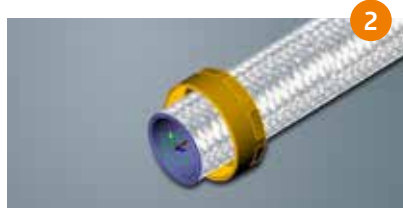
Schutzschlauch The conduit



Den Schlauch auf die benötigte Länge zuschneiden. (Bitte beachten: Beim Einsatz eines Stahlflechtes, sollte keine Litze absteigen)

Take the conduit cut to size trim the metal braid carefully. (Do not leave any single metal yarn spreading out the conduit)

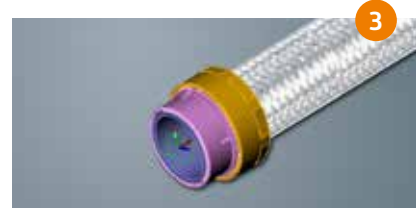
Überwurfmutter montieren Introduction of the pressure nut



Die Überwurfmutter auf den Schlauch schieben.

Insert the pressure nut on the conduit.

Druckring montieren Introduction of the ring



Drücken Sie den Kunststoffring bis zum Anschlag auf den Schlauch.

Insert the polyamide ring on the conduit.

Innentülle montieren Aligning of the metal ferrule



Innentülle am Grundschauch anpassen.

Align the metal ferrule with the conduit.

Innentülle eindrehen Screwing of the metal ferrule



Innentülle bis zum Anschlag Eindrehen.

Screw the metal ferrule up to the shoulder.

Verschraubungskörper montieren The fitting



Alle Einzelteile der Verschraubung, durch eindrehen oder einstecken, miteinander verbinden.

Insert all the assembled elements into the fitting.

Überwurfmutter fest montieren Screwing of the nut



Die Überwurfmutter bis zum max. auf den Verschraubungskörper drehen.

Screw the nut on the fitting body until locking. Check the assembling.

Flachdichtung montieren Insertion of the gasket



Flachdichtung über das Gewinde ziehen.

Insert the gasket over the thread up to the shoulder.

Gegenmutter montieren Screwing the locknut



Gegenmutter am Gewinde aufdrehen.

Screw the locknut to lock the assembling elements into the apparatus.

Übersicht zum IP-Schutzgrad

Overview of the IPdegree of protection

Erste Kennziffer First parameter	Berührungsschutz Protection against accidental contact	Fremdkörperschutz Protection against foreign objects	Zweite Kennziffer Second parameter	Wasserschutz Protection against water
0		Kein besonderer Schutz <i>No special protection</i>	0	Kein besonderer Schutz <i>No special protection</i>
1	Gegen große Körperflächen <i>Against large surface areas</i>	Große Fremdkörper Durchmesser > 50 mm <i>Against foreign objects Diameter > 50 mm</i>	1	Gegen senkrecht fallendes Tropfwasser <i>Against vertically falling dripping water</i>
2	Gegen Finger oder ähnlich große Gegenstände <i>Against fingers or other objects of a similar size</i>	Mittelgroße Fremdkörper Durchmesser > 12 mm <i>Medium-sized foreign objects with diameter > 12 mm</i>	2	Gegen schräg fallendes Tropfwasser (bis 15° Abweichung von der Senkrechten) <i>Against dripping water falling at an angle (up to 15° deviation from vertical)</i>
3	Gegen Werkzeuge, Drähte und ähnliches mit einer Dicke von > 2,5 mm <i>Against tools, cables and similar with a thickness of > 2.5 mm</i>	Kleine Fremdkörper Durchmesser > 2,5 mm <i>Small foreign objects Diameter > 2.5 mm</i>	3	Gegen Sprühwasser (beliebige Richtung bis 60° Abweichung von der Senkrechten) <i>Against spray water (any direction up to 60° deviation from vertical)</i>
4	Gegen Werkzeuge, Drähte und ähnliches mit einer Dicke von > 1 mm <i>Against tools, cables and similar with a thickness of > 1mm</i>	Kornförmige Fremdkörper Durchmesser > 1 mm <i>Granular foreign objects with diameter > 1 mm</i>	4	Gegen Spritzwasser aus allen Richtungen <i>Against splash water from all directions</i>
5	Vollständiger Schutz <i>Full protection</i>	Staubgeschützt; Staubablagerungen sind zulässig, dürfen aber in ihrer Menge nicht die Funktion des Gerätes gefährden <i>Protected against dust; dust deposits are permitted but should not be in such an amount that they put the operation of the device at risk</i>	5	Gegen Strahlwasser aus einer Düse aus allen Richtungen <i>Against jet water from a nozzle from all directions</i>
6	Vollständiger Schutz <i>Full protection</i>	Staubdicht <i>Dust-tight</i>	6	Gegen Überflutung <i>Against flooding</i>
			7	Gegen Eintauchen <i>Against immersion</i>
			8	Gegen Untertauchen <i>Against immersion</i>

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Lagerhinweis Polyamid Spritzgussteile

Storing instruction for polyamide injection moulded parts

- » Polyamid konditioniert in einem Zeitraum von ein bis drei Monaten, d.h. es erfolgt eine Wasser- bzw. Feuchtigkeitsaufnahme bis zu 2,5 % des Teilgewichtes und sollte deshalb bei einer Temperatur von +15°C bis +25°C bei einer Luftfeuchtigkeit von 55 % bis 75 % gelagert werden.
- » Die Lagerung sollte in verschweißten Beuteln erfolgen und in geschlossenen Räumen.
- » Teileentnahme aus den Beuteln sollte erst unmittelbar vor Verarbeitung erfolgen.
- » Der Beutel ist nach der Artikelentnahme sofort wieder zu verschließen.

- » Polyamide conditions during a period of 1 to 3 months, that might effect a possible water-/humidity absorption up to 2,5 % of the part weight. We recommend a storing temperature of +15°C to +25°C at an atmospheric humidity of 55 % to 75 %.
- » Polyamide articles should be stored in welded bags and in closed rooms.
- » Do not withdraw parts out of the bag until further processing.
- » The bag must be closed straight after parts have been withdrawn.



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