4 Multipole Low Voltage Connectors

Key Features

- Wide range of body styles and sizes
- Unsealed, sealed or hermetic
- Signal or power
- Multipole up to 55 contacts
- Up to 30 A
- Standard or inverted polarity
- Solder, crimp or PCB contacts
- Guide mark standard
- Mechanical and color coding

This catalogue covers our standard connector solutions.
For thermocouple connectors, check our online documentation on **www.fischerconnectors.com**
For specific requests, hybrids or fiber optic configurations, please contact us.

How to Order our Products ?

- To find your local Fischer Connectors Office see Catalogue back cover or go to **www.fischerconnectors.com/contacts**
- For General Ordering Information, see page 2-3
- Cable Clamp Set should be ordered separately, see page 4-11
- For details on Options, see page 4-10
- For Accessories, see Section 11
- For Tooling, see Section 12

Other Fischer Connectors Series with Multipole Low Voltage Contacts

■ AluLite™ Series

Aluminium connectors ideal for ultralight or portable applications

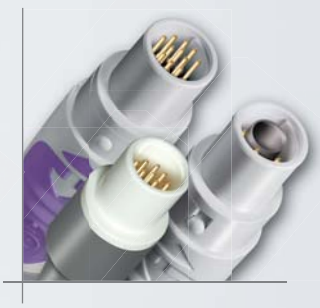
Fischer AluLite™ Series

■ Plastic Series

Plastic connectors ideal for lightweight applications

Fischer 405 Series
Fischer 4032 Series

■ Disposable



Low cost, high performance connectors developped for disposable equipments

Fischer L.U.C™ Series

■ Fischer UltiMate™

High performance connectors specially designed for military land Forces

Fischer LandForce™ Series

Cable Mounted Plugs

Cable Mounted Receptacles

Panel Mounted Receptacles

Panel Mounted Plugs

Panel Mounted Cable Receptacles

For all Multipole Low Voltage

Cable Mounted Plugs



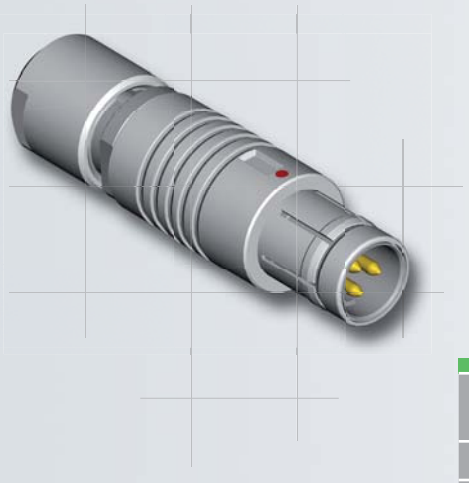


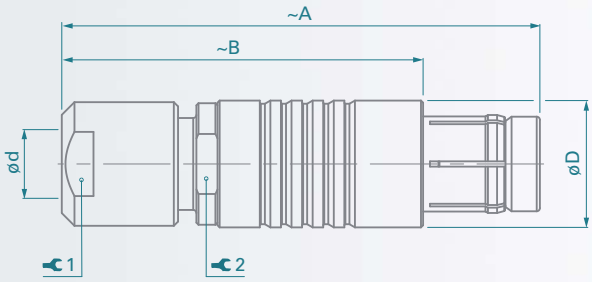

Body Style		S	SC	SOV	SA	SV	SS	SSC	WSO	Links to Detailed Information
Protection	Unsealed (IP50)	●	●	●	●	●	●	●	●	Sealed and Hermetic Connectors Page 13-8
	Sealed up to IP68	●	●	●	●	●	●	●	●	
Locking System	None			●						Plug Locking Systems Page 2-7
	Push-Pull	●			●	●	●		●	
	Emergency Release		●					●		
	Lanyard				●					
	Tamperproof					●				
Contacts	Crimp	●	●	●	●	●	●	●	●	Electrical & Contact Specifications Page 4-9
	Solder	●	●	●	●	●	●	●	●	
Housing Color	Natural Chrome	●	●	●	●	●	●	●	●	Options Page 4-10
	Black Chrome	●	●	●	●		●	●	●	
Design	Shortened Body						●	●		Core Series Overview Page 2-1
	Straight						●	●		
	Right Angle						●	●	●	
Cabling	Cable Clamp Sets	●	●	●	●	●			●	Cable Clamp Sets Page 4-11 Cable Assembly Section 3
	Overmoldable						●	●		
	Heat Shrinkable						●	●		
Accessories	Cable Bend Reliefs	●	●	●	●	●			●	Accessories Section 11
	Protective Sleeves	●	●	●						
	Sealing Caps	●	●	●	●	●	●	●	●	
Size	102 Series	●	●	●	●	●	●	●	●	Dimensions Page 4-3-1 For more Information Visit: **www.fischerconnectors.com /technical**
	103 Series	●	●	●	●	●	●	●	●	
	1031 Series	●	●	●	●	●	●	●	●	
	104 Series	●	●	●	●	●	●	●	●	
	105 Series	●	●	●	●	●	●	●	●	
	106 Series	●				●				
	107 Series	●				●				

Plugs mate with receptacles.

Cable Mounted Plugs

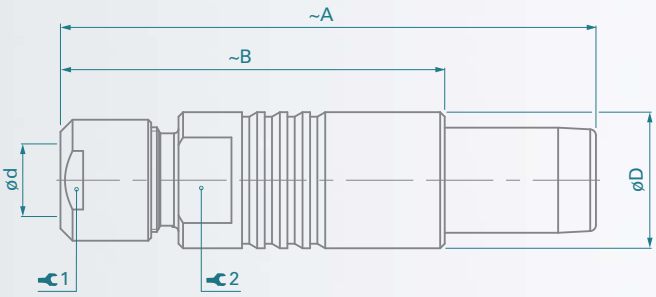
S / SC Body Styles





Series	A	B	D	d max Unsealed	d max Sealed	1	Torque 1 [Nm]	2
102	36	26	9	4.7	4.3	7	0.6	7
103	46	35	12	6.7	6.2	10	1.0	10
1031	48	38	13	7.2	6.7	12	1.5	11
104	50	38	15	8.7	8.7	12	2.0	13
105	62	47	18	10.7	10.7	15	3.5	16
106	80	55	28	19.2	19.2	22	8.0	-
107	110	85	34	22.7	22.7	32	10.0	32

SOV Body Style

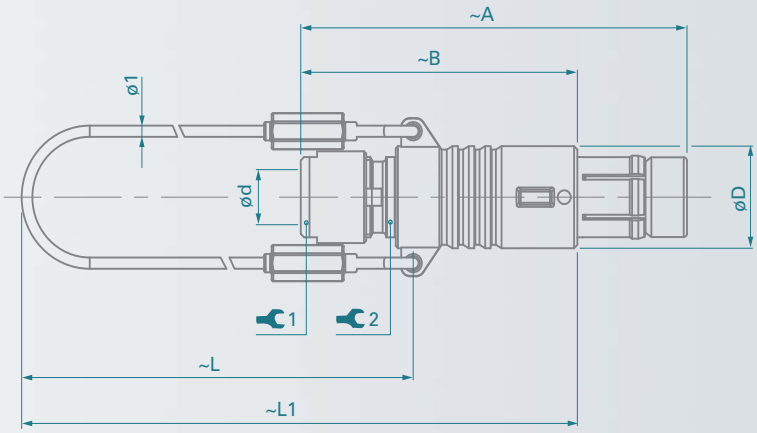


Series	A	B	D	d max Unsealed	d max Sealed	1	Torque 1 [Nm]	2
102	36	26	9	4.7	4.3	7	0.6	7
103	46	35	12	6.7	6.2	10	1.0	10
1031	48	38	13	7.2	6.7	12	1.5	11
104	50	38	15	8.7	8.7	12	2.0	13
105	62	47	18	10.7	10.7	15	3.5	16
106	Please contact us for additional information							
107								

All dimensions shown are in millimeters and are for reference only.

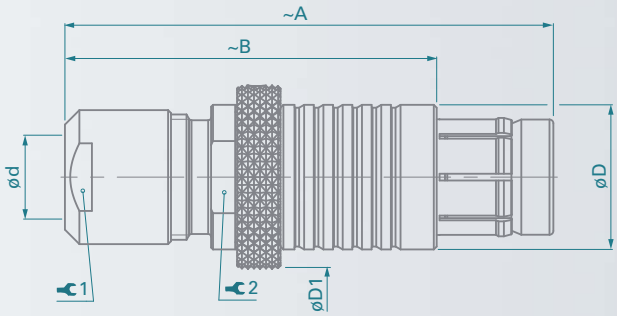
Cable Mounted Plugs

SA Body Style



Series	A	B	D	L	L1	d max Unsealed	d max Sealed	1	Torque 1 [Nm]	2
102	36	26	9	50	65	4.7	4.3	7	0.6	7
103	46	35	12	60	77	6.7	6.2	10	1.0	10
1031	48	38	13	55	75	7.2	6.7	12	1.5	11
104	50	38	15	65	84	8.7	8.7	12	2.0	13
105	62	47	18	70	94	10.7	10.7	15	3.5	16
106	Please contact us for additional information									
107										

SV Body Style

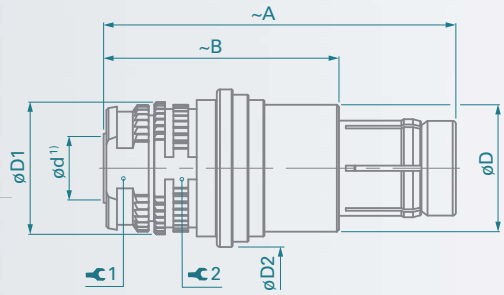


Series	A	B	D	D1	d max Unsealed	d max Sealed	1	Torque 1 [Nm]	2
102	36	26	9	11	4.7	4.3	7	0.6	-
103	46	35	12	13	6.7	6.2	10	1.0	-
1031	Please contact us for additional information								
104	50	38	15	20	8.7	8.7	12	2.0	13
105	62	47	18	22	10.7	10.7	15	3.5	16
106	80	55	30	35	19.2	19.2	22	8.0	-
107	110	85	34	38	22.7	22.7	32	10.0	32

Torque [Nm] are recommended values that may be influenced by the characteristics of the cable jacket.
Tests have to be made to evaluate the exact values. To secure the cable clamp nut, we recommend the use of thread locking adhesive.

Cable Mounted Plugs

SS / SSC Body Styles

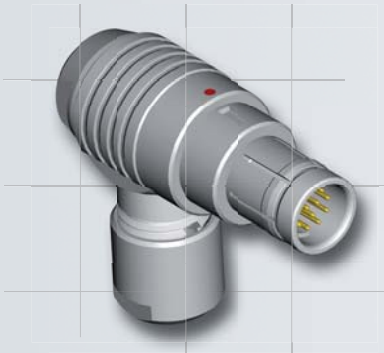


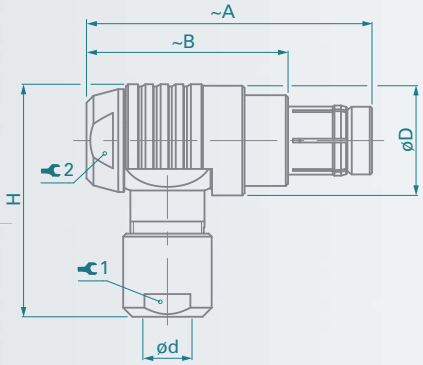
Series	A	B	D	D1	D2	d *max*	1	Torque 1 *[Nm]*	2
102	30	20	9.0	9.5	12.0	3.8	7	0.6	8
103	33	22	12.0	12.5	15.0	6.0	10	1.0	11
1031	33	23	12.4	13.0	15.5	6.2	10	1.0	11
104	38	26	15.0	15.3	18.0	8.0	12	2.0	13
105	44	29	18.0	18.4	21.2	10.0	15	3.5	16
106	Please contact us for additional information								
107									

1) Max. cable diameter below shield.

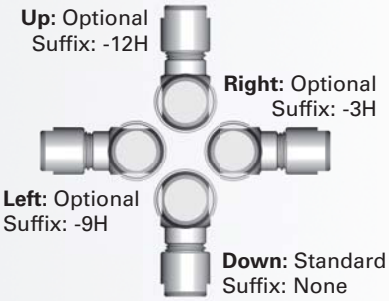
Cable Assembly: Overmolding Options

WSO Body Style





Cable Orientations: View from the back



Series	A	B	D	H	d *max* Unsealed	d *max* Sealed	1	Torque 1 *[Nm]*	2	Torque 2 *[Nm]*
102	33	23	12	25	4.7	4.3	7	0.6	8	1.0
103	38	27	15	31	6.7	6.2	10	1.0	11	1.3
1031	39	29	17	33	7.2	6.7	12	1.5	12	2.0
104	45	32	19	37	8.7	8.7	12	2.0	14	2.5
105	53	38	23	45	10.7	10.7	15	3.5	17	4.5
106	Please contact us for additional information									
107										

WSO is available for different cable orientations.
When ordering, choose which suffix to use in cable orientations figure.

Example: WSO 102 A056 -130 + with standard down cable orientation
WSO 102 A056 -130 **-9H** with left cable orientation

All dimensions shown are in millimeters and are for reference only.

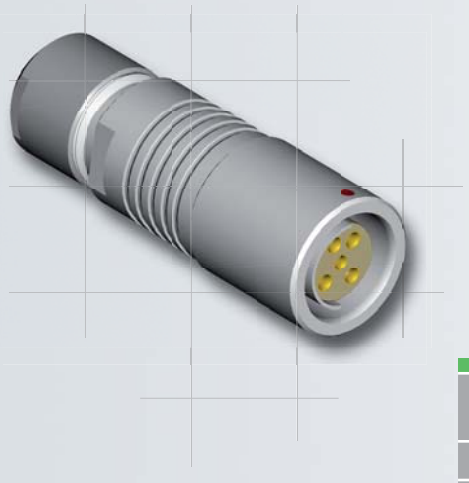
Cable Mounted Receptacles

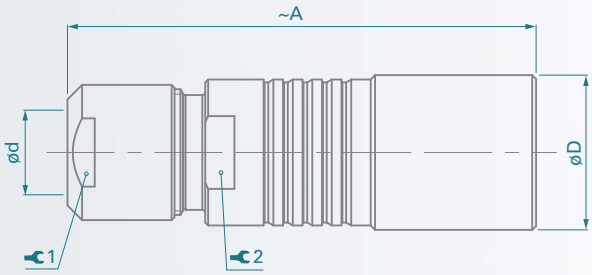
Body Style		K	KE	KS	KSE	Links to Detailed Information
Protection	Unsealed (IP50)	●		●		Sealed and Hermetic Connectors Page 13-8
	Sealed up to IP68		●		●	
Contacts	Crimp	●	●	●	●	Electrical & Contact Specifications Page 4-9
	Solder	●	●	●	●	
Housing	Natural Chrome	●	●	●	●	Options Page 4-10 Core Series Overview Page 2-1
	Black Chrome	●	●	●	●	
	Shortened Body			●	●	
Design	Straight			●	●	Core Series Overview Page 2-1
	Right Angle			●	●	
Cabling	Cable Clamp Sets	●	●			Cable Clamp Sets Page 4-11 Cable Assembly Section 3
	Overmoldable			●	●	
	Heat Shrinkable			●	●	
Accessories	Cable Bend Reliefs	●	●			Accessories Section 11
	Protective Sleeves	●	●			
	Sealing Caps	●	●	●	●	
Size	102 Series	●	●	●	●	Dimensions Page 4-4-1 For more Information Visit: **www.fischerconnectors.com/technical**
	103 Series	●	●	●	●	
	1031 Series	●	●	●	●	
	104 Series	●	●	●	●	
	105 Series	●	●	●	●	
	106 Series	●	●			
	107 Series	●	●			

Plugs mate with receptacles.

Cable Mounted Receptacles

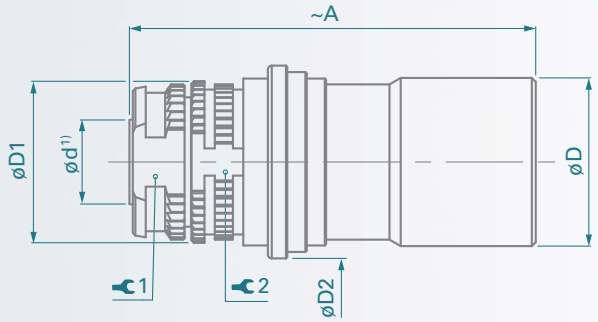
K / KE Body Styles





Series	A	D	d *max* Unsealed	d *max* Sealed	1	Torque 1 [Nm]	2
102	35	10	4.7	4.3	7	0.6	7
103	43	13	6.7	6.2	10	1.0	10
1031	46	13.5	7.2	6.7	12	1.5	11
104	50	16	8.7	8.7	12	2.0	13
105	60	19	10.7	10.7	15	3.5	16
106	79	33	19.2	19.2	25	8	25
107	105	36	22.7	22.7	32	10	32

KS / KSE Body Styles



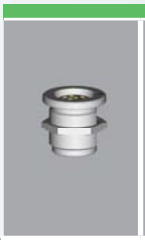
Series	A	D	D1	D2	d *max*	1	Torque 1 [Nm]	2
102	28	10.0	10.0	12.0	3.8	7	0.6	8
103	32	13.0	13.0	15.0	6.0	10	1.0	11
1031	31	13.5	13.5	15.5	6.2	10	1.0	11
104	35	16.0	16.0	18.0	8.0	12	2.0	13
105	43	19.0	18.0	21.2	10.0	15	3.5	16
106	Please contact us for additional information							
107								

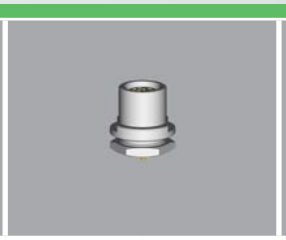
[1] Max. cable diameter below shield.

Cable Assembly: Overmolding Options

All dimensions shown are in millimeters and are for reference only.
Torque [Nm] are recommended values that may be influenced by the characteristics of the cable jacket.
Tests have to be made to evaluate the exact values. To secure the cable clamp nut, we recommend the use of thread locking adhesive.

Panel Mounted Receptacles

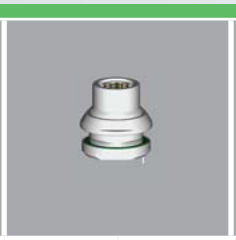



Body Style		D	DEU	DEE	DB	DBEU	DBEE	DBP
Protection	Unsealed (IP50)	●			●			●
	Sealed up to IP68		●	●		●	●	
	Hermetic			●			●	
Contacts	Crimp	●			●			●
	Solder	●	●	●	●	●	●	●
	PCB	●	●	●	●	●	●	●
Housing Color	Natural Chrome	●	●	●	●	●	●	●
	Black Chrome	●	●	●	●	●	●	●
Design	Right Angle							
	Flush	●	●	●				●
	Front Projecting				●	●	●	
	Bulkhead Feedthrough							
Assembly	Front Mounting	●	●	●	●	●	●	
	Rear Mounting							●
Accessories	Sealing Caps	●	●	●	●	●	●	●
	Spacers	●	●	●	●	●	●	●
	Color-Coded Washers	●			●			●
	Grounding Washers	●	●	●	●	●	●	●
	Locking Washers	●	●	●	●	●	●	●
	Decorative Nuts							●
Size	102 Series	●	●	●	●	●	●	●
	103 Series	●	●	●	●	●	●	●
	1031 Series	●	●	●	●	●	●	●
	104 Series	●	●	●	●	●	●	●
	105 Series	●	●	●	●	●	●	●
	106 Series	●		●			●	
	107 Series	●		●			●	

Plugs mate with receptacles.

Panel Mounted Receptacles

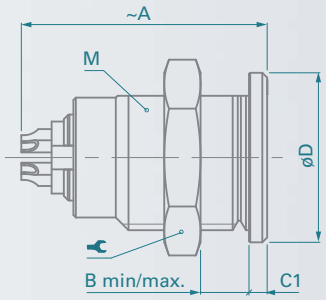





DBPU	DBPE	DBPLU	DBPLE	DG	DGP	DBPC	WDE	Links to Detailed Information
				●	●	●		Sealed and Hermetic Connectors Page 13-8
●	●	●	●				●	
	●		●				●	
				●	●			Electrical & Contact Specifications Page 4-9
●	●	●	●	●	●			
●	●	●	●	●	●	●		
●	●	●	●	●	●	●	●	Options Page 4-10
●	●	●	●	●	●	●		
						●		Core Series Overview Page 2-1
●	●			●	●	●	●	
		●	●	●	●		●	
							●	
				●	●		●	Core Series Overview Page 2-1
●	●	●	●	●	●	●		
●	●	●	●	●	●	●	●	Accessories Section 11
●	●	●	●	●	●	●	●	
				●	●	●		
●	●	●	●	●	●	●		
●	●	●	●	●	●	●		
●	●	●	●	●	●	●		
●	●	●	●	●	●	●	●	Dimensions Page 4-5-2 For more Information Visit: **www.fischerconnectors.com /technical**
●	●	●	●	●	●	●	●	
●	●	●	●	●	●	●		
●	●	●	●	●	●		●	
●	●	●	●	●	●		●	
				●	●		●	
	●						●	

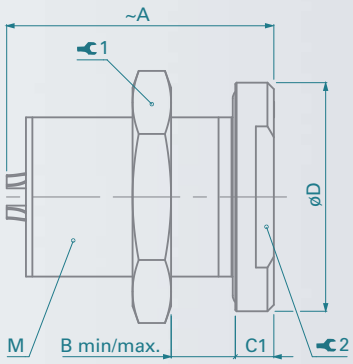
Panel Mounted Receptacles

D Body Style



Series	A	B	C1	D	M		Torque [Nm]
102	19	0/9	1.5	11	9x0.5	11	1.3
103	23	0/8	1.5	14	12x1	14	2.5
1031	25	0/10	2.0	16	14x1	17	3.0
104	25	0/11	2.2	19	15x1	17	4.0
105	32	0/15	2.0	22	18x1	22	6.0
106	50	0/18	3.0	37	32x1	TX00.106	15
107	46	0/18	4.0	40	35x1	TX00.107	16

DEU / DEE Body Styles

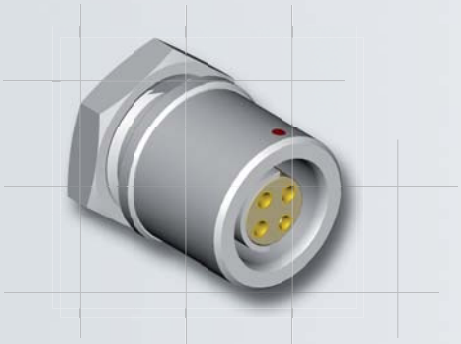


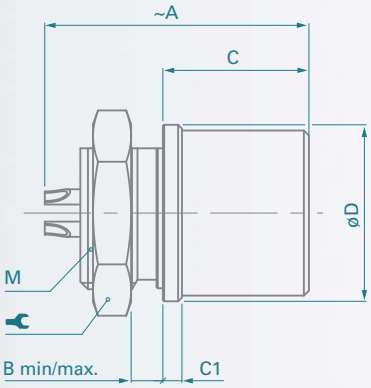
Series	A	B	C1	D	M	1	Torque 1 [Nm]	2
102	20	8/10	2.5	14	9x0.5	11	1.3	11
103	23	0/12	3.0	18	14x1	17	3.0	14
1031	25	0/12	3.0	19	14x1	17	3.0	15
104	25	0/15	4.0	22	16x1	19	4.5	17
105	33	10.5/18	4.0	27	20x1	25	6.5	-
106	50	19/24	5.0	41	32x1	TX00.106	15	-
107	47	19.2/22	5.0	45	35x1	TX00.107	16	-

Torque [Nm] are recommended values that may be influenced by the quality of the surface under the nut.
Tests have to be made to evaluate the exact values.

Panel Mounted Receptacles

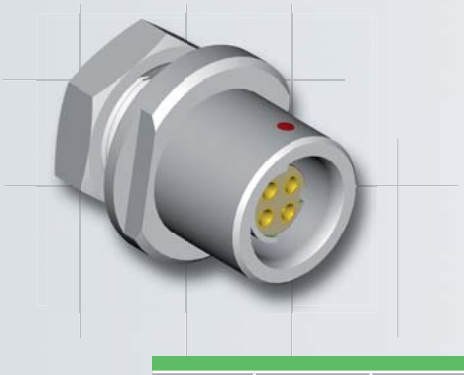
DB Body Style

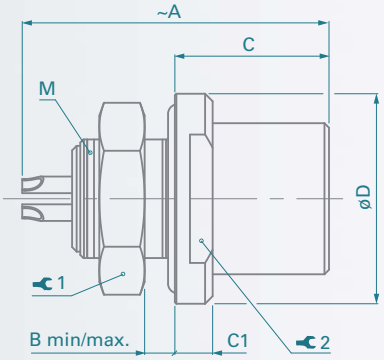




Series	A	B min/max.	C	C1	D	M		Torque [Nm]
102	18	0/3	11.0	1.0	11	9x0.5	11	1.3
103	21	0/4	11.5	1.5	14	12x1	14	2.5
1031	Please contact us for additional information							
104	26	0/3	14.5	2.5	19	16x1	19	4.5
105	33	0/7	19.0	2.0	22	18x1	22	6.0
106	Please contact us for additional information							
107								

DBEU / DBEE Body Styles



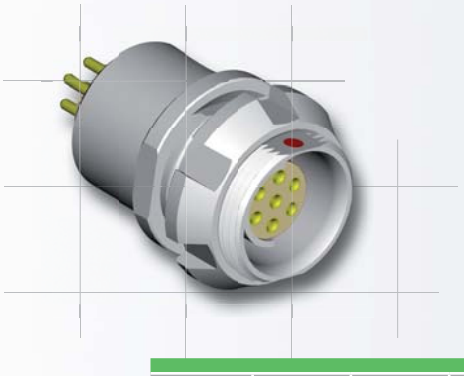


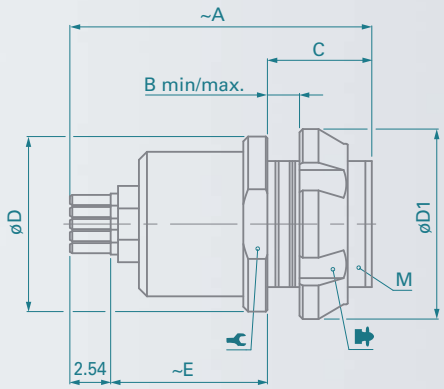
Series	A	B min/max.	C	C1	D	M	1	Torque 1 [Nm]	2
102	20	0/3.5	10.2	2.5	14	9x0.5	11	1.3	11
103	23	0/4.0	13.0	3.0	18	14x1	17	3.0	14
1031	24	0/4.0	12.0	3.0	19	14x1	17	3.0	15
104	30	0/3.5	16.0	4.0	22	16x1	19	4.5	17
105	32	0/5.0	19.0	4.0	27	18x1	22	6.0	22
106	50	0/6.5	25.5	7.0	40	32x1	TX00.106	15	-
107	47	0/5.0	24.0	5.0	45	35x1	TX00.107	16	38

All dimensions shown are in millimeters and are for reference only.

Panel Mounted Receptacles

DBP Body Style

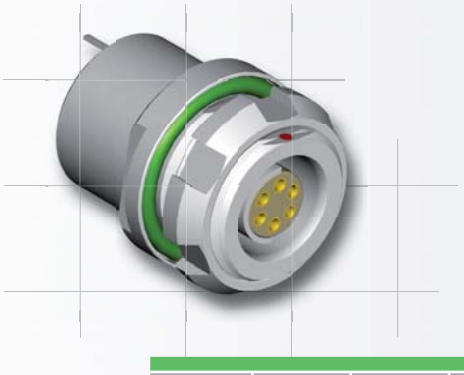


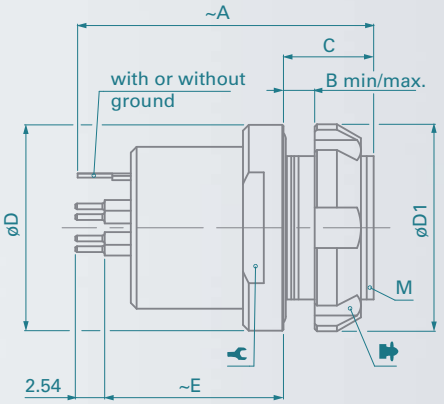


Series	A	B min/max.	C	D	D1	E	M		1)	Torque [Nm]
102	20	0/3.5	6.5	11	12	10.0	9x0.5	10	TC00.000	1.3
103	23	0/4.0	8.0	14	15	12.0	12x1	-	TF00.001	2.5
1031	23	0/3.0	7.0	16	18	13.0	14x1	-	TG00.001	3.0
104	26	0/5.0	9.0	19	19	11.5	15x1	-	TK00.000	4.0
105	30	0/12.0	17.0	22	23	10.0	18x1	-	TP00.011	6.0
106	Please contact us for additional information									
107										

1) Assembly tool for decorative slotted nut, see Tooling Page 12-1 for details.

DBPU / DBPE Body Styles





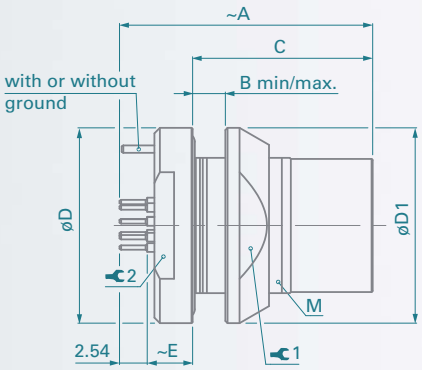
Series	A	B min/max.	C	D	D1	E	M		1)	Torque [Nm]
102	20	0/3.5	6.5	14	12	13.0	9x0.5	11	TC00.000	1.3
103	26	0/3.0	7.8	18	18	15.5	14x1	15	TG00.001	3.0
1031	23	0/3.0	7.0	19	18	13.0	14x1	15	TG00.001	3.0
104	26	0/4.0	8.0	22	20	15.5	16x1	-	TK00.002	4.5
105	30	0/5.0	10.0	27	25	14.0	20x1	-	TP00.005	6.5
106	Please contact us for additional information									
107										

1) Assembly tool for decorative slotted nut, see Tooling Page 12-1 for details.

Torque [Nm] are recommended values that may be influenced by the quality of the surface under the nut.
Tests have to be made to evaluate the exact values.

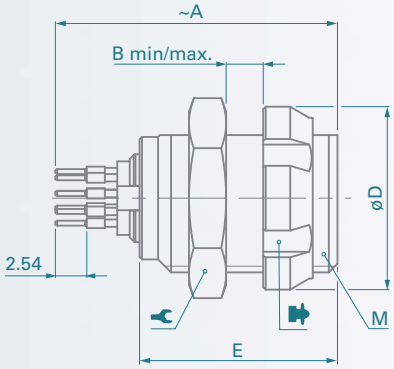
Panel Mounted Receptacles

DBPLU / DBPLE Body Styles



Series	A	B min/max.	C	D	D1	E	M	1	Torque 1 [Nm]	2
102	21	0/4.5	14.2	14	13	3.6	10x0.5	11	1.5	11
103	24	0/5.0	16.5	18	18	4.2	14x1	15	3.0	15
1031	23	0/5.5	16.0	19	20	4.2	15x1	17	4.0	15
104	27	0/6.5	18.5	22	20	5	16x1	17	4.5	17
105	31	0/7.0	22.5	27	25	5.5	20x1	22	6.5	22
106	Please contact us for additional information									
107										

DG / DGP Body Styles



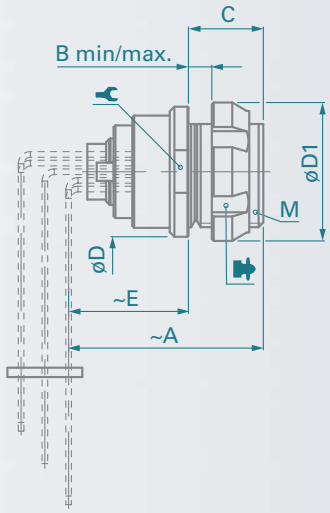
Series	A	B min/max.	D	E	M		1)	Torque [Nm]
102	20	0/6	12	14	9x0.5	11	TC00.000	1.3
103	23	0/7	15	15	12x1	14	TF00.001	2.5
1031	23	0/7	18	18	14x1	17	TG00.001	3.0
104	26	0/9	19	18	15x1	17	TK00.000	4.0
105	30	0/15	23	24	18x1	22	TP00.011	6.0
106	Please contact us for additional information							
107								

[1] Assembly tool for decorative slotted nut, see Tooling Page 12-1 for details.

All dimensions shown are in millimeters and are for reference only.

Panel Mounted Receptacles

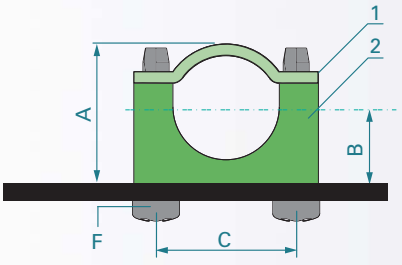
DBPC Body Style

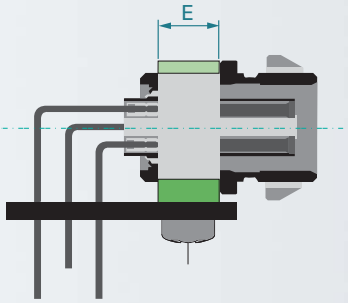


Series	A	B	C	D	D1	E[1]	M		[2]	Torque [Nm]
102	20.0	0/3.5	6.5	11	12	13	9x0.5	10	TC00.000	1.3
103	22.0	0/4.0	8.0	14	15	13	12x1	-	TF00.001	2.5
1031	21.5	0/3.0	7.0	16	18	14	14x1	-	TG00.001	3.0

[1] Please refer to online Dimensional Specifications for precise value and layout dimensions.
[2] Assembly tool for decorative slotted nut, see Tooling Page 12-1 for details.

DBPC Mounting Clamp





- Enables mounting directly to PCB with two screws
- Improves grounding of body to the PCB

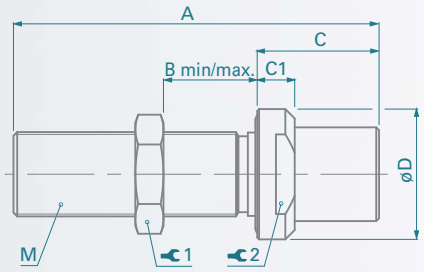
Series	A	B	C	E	F	Part Number
102	11.5	6.0	12	3.8	ø 2.2x13	102.1943
103 1031	15.2	8.2	16	4.9	ø 2.9x16	103.2253

Material:
1 - Nickel plated brass copper
2 - PBT

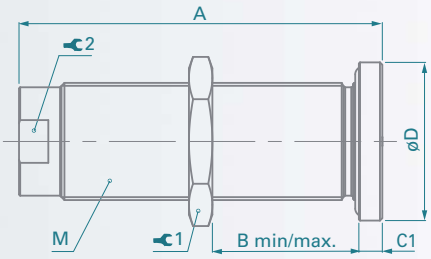
Torque [Nm] are recommended values that may be influenced by the quality of the surface under the nut. Tests have to be made to evaluate the exact values.

Panel Mounted Receptacles

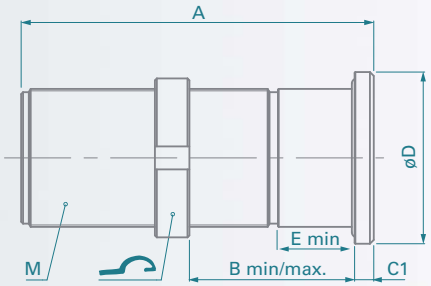
WDE Body Style for 102, 103 and 104 Series



WDE Body Style for 105 Series



WDE Body Style for 106 and 107 Series [1)]



Series	A	B min/max	C	C1	D	E min	M	1 [2)]	Torque 1 [Nm]	2
102	39	0/23	13	4	14	-	9x0.5	11	1.3	11
103	40	0/23	14	4	17	-	12x1	14	2.5	14
1031	Please contact us for additional information									
104	40	0/21	16	4	22	-	15x1	17	4.0	17
105	62	0/47	-	4	27	-	20x1	22	6.5	-
106 [1)]	74	0/39	-	12	42	30	32x1	TX00.106	15	-
107 [1)]	92	0/76	-	5	45	20	36x1	TX00.107	17	-

[1)] Feedthroughs of series 106 and 107 are supplied with slotted nuts. For nuts dimensions see Section 11 Accessories.
[2)] Assembly tool for side slotted nut, see Tooling Page 12-1 for details.

The bulkhead feedthrough connector allows the passing of electrical signals and power through a panel via two cable plugs.

The "AZ" version of the feedthrough accepts a type "A" plug on the flange side and a type "Z" plug on the threaded end, which is typically oriented toward the interior of the chassis.
In the version "ZA" the connections "A" and "Z" are inverted. See A/Z Polarity on Page 4-9-1.

Dimension "B max" specifies the maximum panel thickness. For panels thinner than the unthreaded section "E min" , we can provide spacers as shown in Section 11 Accessories.

All dimensions shown are in millimeters and are for reference only.

Panel Mounted Plugs

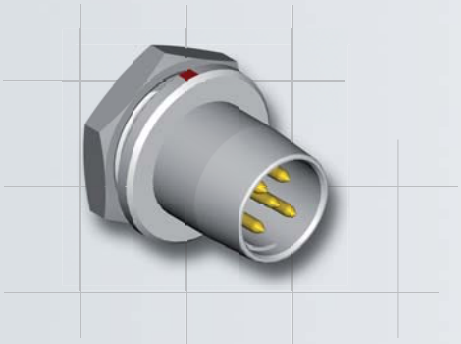


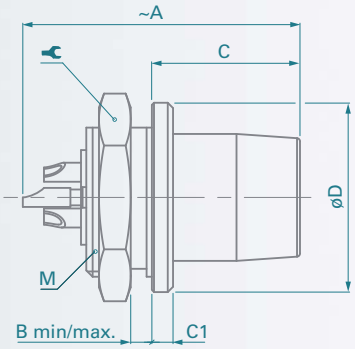
Body Style		SF	SFU	SFE	SFPU	SFPE	Links to Detailed Information
Protection	Unsealed (IP50)	●					Sealed and Hermetic Connectors Page 13-8
	Sealed up to IP68		●	●	●	●	
	Hermetic			●		●	
Contacts	Crimp	●					Electrical & Contacts Specifications Page 4-9
	Solder	●	●	●	●	●	
	PCB	●	●	●	●	●	
Housing Color	Natural Chrome	●	●	●	●	●	Options Page 4-10
	Black Chrome	●	●	●	●	●	
Assembly	Front Mounting	●	●	●			Core Series Overview Page 2-1
	Rear Mounting				●	●	
Accessories	Sealing Caps	●	●	●	●	●	Accessories Section 11
	Spacers	●	●	●	●	●	
	Color-Coded Washers	●					
	Insulating Washers	●					
	Grounding Washers	●	●	●			
	Locking Washers	●	●	●	●	●	
	Decorative Nuts				●	●	
Size	102 Series	●	●	●	●	●	Dimensions Page 4-6-1 For more Information Visit: **www.fischerconnectors.com /technical**
	103 Series	●	●	●	●	●	
	1031 Series	●	●	●	●	●	
	104 Series	●	●	●	●	●	
	105 Series	●	●	●	●	●	
	106 Series	●					
	107 Series	●					

Plugs mate with receptacles.

Panel Mounted Plugs

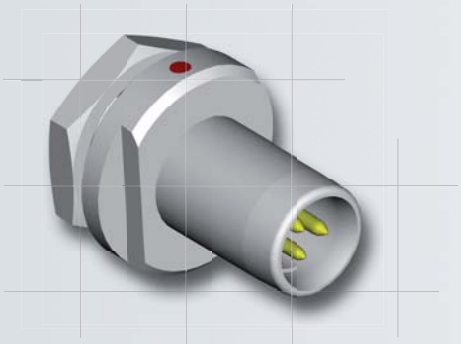
SF Body Style

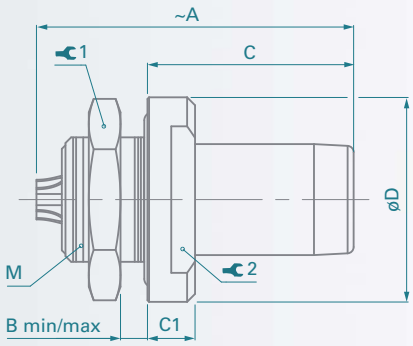




Series	A	B min/max.	C	C1	D	M		Torque [Nm]
102	20.0	0/4.0	11.0	1.0	10	9x0.5	11	1.3
103	23.5	0/3.0	12.5	1.5	14	12x1	14	2.5
1031	26.0	0/4.0	12.0	2.0	16	14x1	17	3.0
104	28.0	0/3.0	14.0	2.0	18	15x1	17	4.0
105	30.5	0/5.5	16.8	1.2	22	16x1	19	4.5
106	42.5	0/5.5	27.5	2.5	34	30x1	TX00.106	14
107	50.0	6.0	28.0	3.0	36	32x1	TX00.106	15

SFU / SFE Body Styles



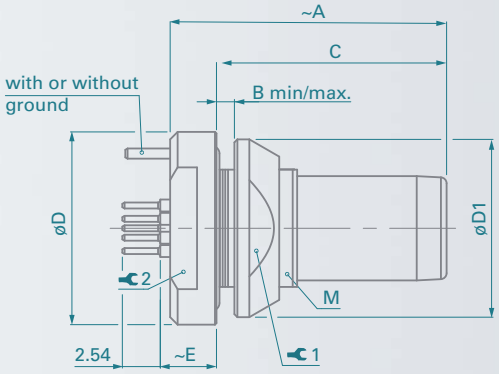


Series	A	B min/max.	C	C1	D	M	1	Torque 1 [Nm]	2
102	21	0/2.5	13	3	13	9x0.5	11	1.3	9
103	26	0/5.0	14	3	17	12x1	14	2.5	12
1031	26.5	0/4.0	13.7	3.7	19	14x1	17	3.0	12
104	28	0/7.5	15	3	22	16x1	19	4.5	-
105	32	0/6.0	4	4	27	20x1	25	6.5	-
106	Please contact us for additional information								
107									

All dimensions shown are in millimeters and are for reference only.

Panel Mounted Plugs

SFPU / SFPE Body Styles



Series	A	B min/max.	C	D	D1	E	M	1	Torque 1 [Nm]	2
102	22.0	0/2.5	15.4	13	12	3.8	9x0.5	10	1.3	9
103	25.5	0/4.0	18.5	17	16	4.5	12x1	13	2.5	12
1031	25.0	0/4.0	18.0	19	18	4.5	14x1	15	3.0	15
104	29.0	0/6.0	22.0	22	20	4.2	16x1	17	4.5	17
105	32.5	0/5.0	25.0	27	25	5.0	20x1	22	6.5	19
106	Please contact us for additional information									
107										

Torque [Nm] are recommended values that may be influenced by the quality of the surface under the nut.
Tests have to be made to evaluate the exact values.

Panel Mounted Cable Receptacles

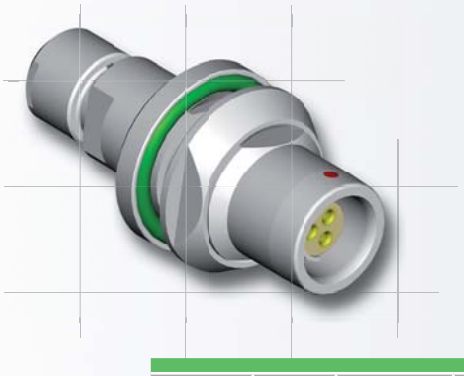


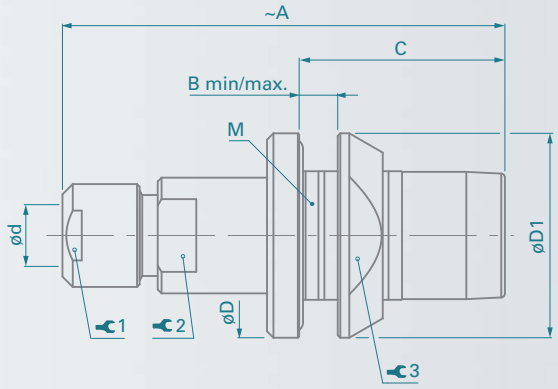
Body Style		DKBE	DK	DKE	Links to Detailed Information
Protection	Unsealed (IP50)		●		Sealed and Hermetic Connectors Page 13-8
	Sealed up to IP68	●		●	
Contacts	Crimp	●	●	●	Electrical & Contacts Specifications Page 4-9
	Solder	●	●	●	
Housing Color	Natural Chrome	●	●	●	Options Page 4-10
	Black Chrome	●	●	●	
Design	Flush		●		Core Series Overview Page 2-1
	Front Projecting	●		●	
Assembly	Panel Mounted	●	●	●	Core Series Overview Page 2-1
	Front Mounting		●	●	
	Rear Mounting	●			
	Cable Clamp Sets	●	●	●	Cable Clamp Sets Page 4-11
Accessories	Cable Bend Reliefs	●	●	●	Accessories Section 11
	Sealing Caps	●	●	●	
	Spacers	●	●	●	
	Color-Coded Washers	●	●		
	Insulating Washers				
	Grounding Washers	●	●	●	
	Locking Washers	●	●	●	
	Decorative Nuts	●			
Size	102 Series	●	●	●	Dimensions Page 4-7-1 For more Information Visit: **www.fischerconnectors.com/technical**
	103 Series	●	●	●	
	1031 Series	●			
	104 Series	●	●	●	
	105 Series	●	●	●	
	106 Series	●	●	●	
	107 Series	●	●	●	

Plugs mate with receptacles.

Panel Mounted Cable Receptacles

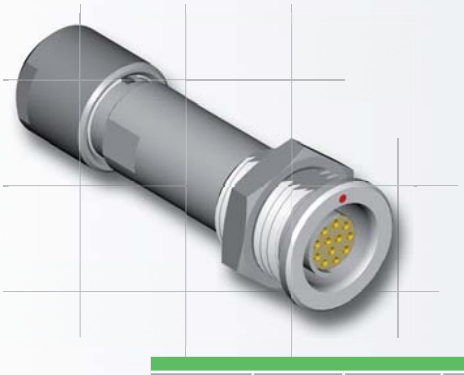
DKBE Body Style

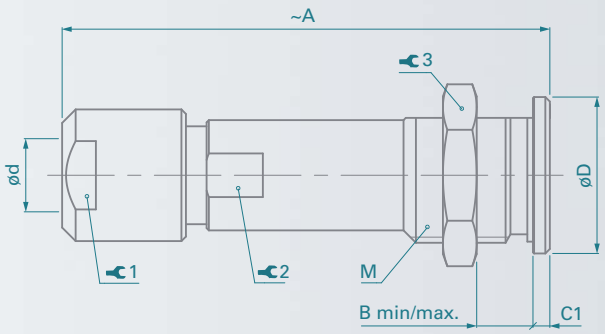




Series	A	B min/max.	C	D	d *max*	D1	M	1	Torque 1 *[Nm]*	2	3	Torque 3 *[Nm]*
102	35	0/3.5	16.0	16	4.3	16	12x1	7	0.6	7	13	2.5
103	43	0/4.0	19.0	19	6.2	20	15x1	10	1.0	10	17	4.0
1031	46	0/4.0	18.0	21	6.7	20	16x1	12	1.5	11	17	4.5
104	50	0/5.0	22.5	23	8.7	23	18x1	12	2.0	13	20	6.0
105	60	0/5.0	26.0	28	10.7	27	22x1	15	3.5	16	24	8.0
106	101	0/6.5	32.0	41	19.2	40	34x1	25	8.0	25	36	15
107	105	0/8.0	34.0	45	22.7	45	38x1	32	10.0	30	40	18

DK Body Style



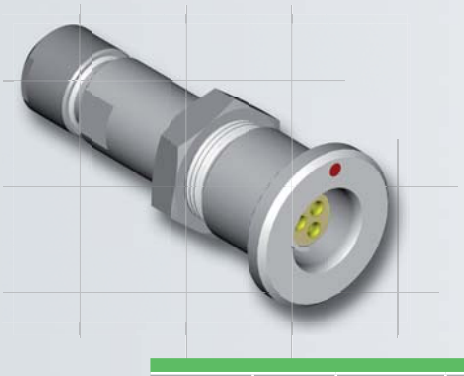


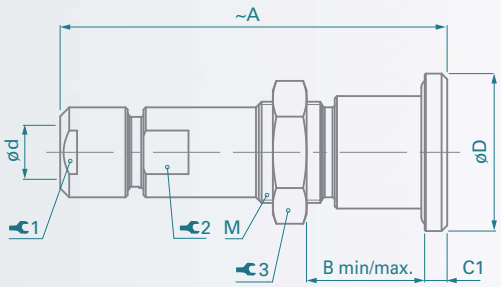
Series	A	B min/max.	C1	D	d *max*	M	1	Torque 1 *[Nm]*	2	3	Torque 3 *[Nm]*
102	35	0/9	1.5	11	4.7	9x0.5	7	0.6	-	11	1.3
103	44	0/10	1.5	14	6.7	12x1	10	1.0	9	14	2.5
1031	Please contact us for additional information										
104	50	0/11	2.0	19	8.7	15x1	12	2.0	12	17	4.0
105	60	0/16	2.0	22	10.7	18x1	15	3.5	14	22	6.0
106	80	0/21	3.0	37	19.2	32x1	25	8.0	25	TX00.106	15
107	105	0/17	4.0	40	22.7	35x1	32	10.0	30	TX00.107	16

Torque [Nm] are recommended values that may be influenced by the characteristics of the cable jacket and by the quality of the surface under the nut. Tests have to be made to evaluate the exact values. To secure the cable clamp nut, we recommend the use of thread locking adhesive.

Panel Mounted Cable Receptacles

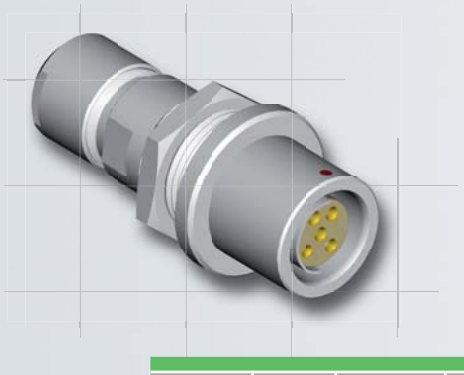
DKE Body Style for 102, 103 and 1031 Series

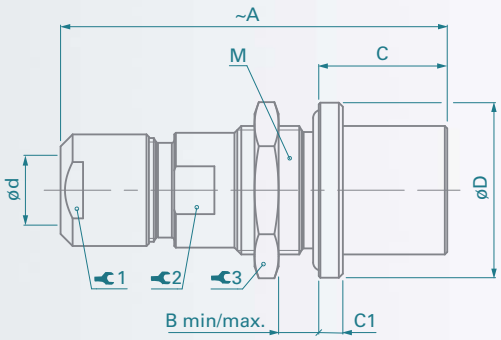




Series	A	B min/max.	C	C1	D	d *max*	M	1	Torque 1 *[Nm]*	2	3	Torque 3 *[Nm]*
102	35	9/12	-	2	14	4.3	9x0.5	7	0.6	7	11	1.3
103	45	9/14	-	3	17	6.2	14x1	10	1.0	10	17	3.0
1031	Please contact us for additional information											

DKE Body Style for 104, 105, 106 and 107 Series





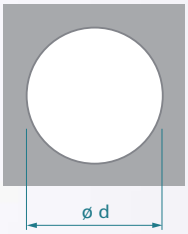
Series	A	B min/max.	C	C1	D	d *max*	M	1	Torque 1 *[Nm]*	2	3	Torque 3 *[Nm]*
104	50	0/8	16.0	3	22	8.7	16x1	12	2.0	13	19	4.5
105	61	0/9	19.0	4	27	10.7	20x1	15	3.5	16	25	6.5
106	85	0/9	25.5	7	37	19.2	30x1	25	8.0	25	TX00.106	14
107	110	0/21	25.0	5	45	22.7	35x1	32	10.0	30	TX00.107	16

All dimensions shown are in millimeters and are for reference only.

Panel Cut-Outs

The dimension of panel cut-outs varies according to the body style and size of the panel mounted connector. Refer to table below for more details.

Check details on dimensional specifications on our web site: **www.fischerconnectors.com/technical**



Panel Mounted Receptacles

Series	D	DEU DEE	DB	DBEU DBEE	DBP	DBPU DBPE	DBPLU DBPLE	DG DGP	DBPC	WDE
	ø d									
102	9.1	10.1	9.1	9.1	9.1	9.1	10.1	9.1	9.1	9.1
103	12.1	14.1	12.1	14.1	12.1	14.1	14.1	12.1	12.1	12.1
1031	14.1	14.1	-	14.1	14.1	14.1	15.1	14.1	14.1	-
104	15.1	16.1	16.1	16.1	15.1	16.1	16.1	15.1	-	15.1
105	18.1	20.1	18.1	18.1	18.1	20.1	20.1	18.1	-	20.1
106	32.2	34.2	-	32.2	-	-	-	32.2	-	32.2
107	35.2	36.2	-	35.2	-	35.2	-	-	-	36.2

Panel Mounted Plugs

Series	SF	SFU SFE	SFPU SFPE
	ø d		
102	9.1	9.1	9.1
103	12.1	12.1	12.1
1031	14.1	14.1	14.1
104	15.1	16.1	16.1
105	16.1	20.1	20.1
106	30.2	-	-
107	32.2	-	-

Panel Mounted Cable Receptacles

Series	DK	DKBE	DKE
	ø d		
102	9.1	12.1	10.1
103	12.1	15.1	14.1
1031	-	16.1	-
104	15.1	18.1	16.1
105	18.1	22.1	20.1
106	32.2	34.2	30.2
107	35.2	38.2	35.2

All dimensions shown are in millimeters and are for reference only.

Contents

A/Z Polarity

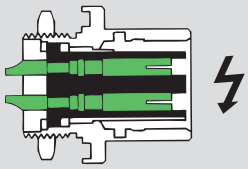
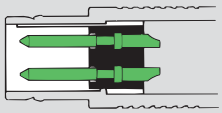
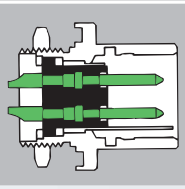
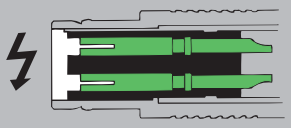
To protect users from contact with dangerous voltages, most Fischer connectors exist in two versions:

- **Type "A" Standard Polarity:**

The contacts of the receptacle are protected against accidental touch.
This version is recommended when voltage is present on the receptacle.

- **Type "Z" Inverted Polarity:**

The contacts of the plug are protected against accidental touch.
This version is recommended when voltage is present on the plug.

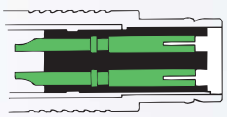
	Receptacle D	Plug S
Type "A" Standard Polarity		
Type "Z" Inverted Polarity		

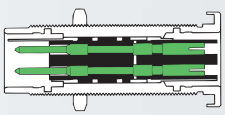
- **Important: An "A" type connector can never be mated with a "Z" type connector.**

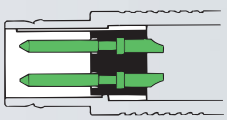
A plug "S" has the same housing in type "A" as in type "Z", but type "A" comes with unprotected contacts while type "Z" is equipped with touch-protected contacts.
In most cases these are female contacts which are recessed in the insulator.
For the exceptions, see High Voltage Connectors page 5-5 and Mixed High Voltage page 9-5

- **Bulkhead Feedthrough WDE:**

Type "AZ" is the standard version of the WDE.
The flange side accepts an "A" type plug, and the threaded side accepts a "Z" type plug.


Type "Z" plug (S)


WDE, type "AZ"


Type "A" plug (S)

The "ZA" version of the WDE accepts a type "Z" plug at the flange side and accepts a type "A" plug at the threaded end.

Contact Types

The Fischer contact designs are highly reliable and are guaranteed up to 10,000 mating cycles.

All standard brass and bronze contacts for use in the Core Series are screw machined, and all are gold plated over a nickel underplate.

The current Fischer design has very low insertion forces, improved contact area, and can be machined and calibrated in one operation.
The classic Fischer design, which has equivalent performance, is still in use on certain connectors.

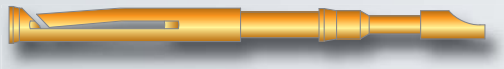
Most connectors are available with solder, crimp or PCB contacts and each type is optimized for a particular application.

Fischer Connectors manufactures as well connectors with thermocouple contacts.
Please check our online documentation on **www.fischerconnectors.com**

All contacts and connectors are RoHS compliant.

Solder Contacts

Solder contacts are the most versatile contact as they can be produced with any type of contact block material and can accept a wide range of wire sizes.



- The contacts are pre-installed in the insulator block, and the wires can be terminated with any appropriately sized soldering iron.
- Solder contacts may require operators who are qualified in specialized soldering techniques.

PCB Contacts

PCB contacts are available on some Panel Mounted Connectors.

- These connectors are designed to be mounted directly to a PCB or flex circuit, and can be used in wave solder operations for faster production assembly.
- The pin diameter has been necessarily reduced in the area that will mount to the PCB, and this can affect the current carrying capacity and voltage characteristics of the connector depending on the PCB design and assembly techniques. These requirements should be reviewed during the product design process.
- PCB pins are non standard for Cable Mounted products.

Contact Types

Crimp Contacts

Crimp contacts are often used in higher volume applications, and offer the advantage of being able to replace individual contacts if they become damaged.

- Each contact has a selectively annealed area that is deformed during assembly by specialized tooling to assure proper termination of the wire to the contact.
- Special tools are also required to insert the contact into the insulator block. See Section 12 Tooling.
- Teflon insulator blocks are not compatible with crimp contacts, and crimp contacts only accept a limited range of wire sizes.
- Crimp contacts are not available in sealed or hermetic connectors.

Tooling for Crimp Contacts

Series	Polarity	Contact Diameter (mm)									
		0.5		0.7		0.9		1.3		1.6	
		Contact Part Number	Positioner Part Number	Contact Part Number	Positioner Part Number	Contact Part Number	Positioner Part Number	Contact Part Number	Positioner Part Number	Contact Part Number	Positioner Part Number
102	Male	200.2113	TX00.300	200.2884	TX00.304	200.2890	TX00.307	-	-	-	-
	Female	200.2114	TX00.302	200.2885	TX00.305	200.2892	TX00.309	-	-	-	-
103	Male	200.2113	TX00.300	200.2884	TX00.304	200.2890	TX00.307	200.2402	TX00.311	-	-
	Female	200.2114	TX00.302	200.2885	TX00.305	200.2892	TX00.309	200.2214	TX00.312	-	-
1031	Male	200.2172	TX00.301	200.2884	TX00.304	200.2890	TX00.307	200.2402	TX00.311	-	-
	Female	200.2183	TX00.303	200.2885	TX00.305	200.2892	TX00.309	200.2214	TX00.312	-	-
104	Male	200.2172	TX00.301	200.2884	TX00.304	200.2890	TX00.307	200.2402	TX00.311	200.1653	TX00.313
	Female	200.2183	TX00.303	200.2885	TX00.305	200.2892	TX00.309	200.2214	TX00.312	200.1654	TX00.314
105	Male	200.2172	TX00.301	200.2884	TX00.304	200.2891	TX00.308	200.2403	TX00.338	200.1653	TX00.313
	Female	200.2412	TX00.324	200.2886	TX00.306	200.2893	TX00.310	200.2214	TX00.312	200.1654	TX00.314
Crimp Tool Part Number		TX00.240		TX00.240		TX00.240		TX00.240		TX00.242	

See Section 12 Tooling, Page 12-2 for description of Crimping Tool and Positioner.

102 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts	Contact Termination			Insulating Material	Contact ø [mm]	Wire Size [2]		Test Voltage [V] in mated position				Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
										AC rms		DC			
			Solder	Crimp	PCB			Solder Contacts [1]	Crimp Contacts	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact		
102 A Z 051		2	●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.3	1.7	1.8	2.4	≤ 250	9.2
102 A Z 052		3	●		●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.3	1.3	1.8	1.6	≤ 250	8.2
102 A Z 053		4	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.2	1.2	1.7	1.8	≤ 200	5.5
102 A Z 054		5	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	0.8	1.0	1.3	1.8	≤ 160	5.2
102 A Z 056		7	●	●	●	PEEK	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	max ø0.43mm min ø0.20mm AWG28-32	0.8	1.0	1.3	1.8	≤ 160	2.0
102 A Z 059		9	●		●	PEEK	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	–	0.8	1.1	1.2	1.8	≤ 160	1.7

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.

This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

All dimensions shown are in millimeters and are for reference only.

103 and 1031 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts	Contact Termination			Insulating Material	Contact ø [mm]	Wire Size [2]		Test Voltage [V] in mated position				Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
										AC rms		DC			
			Solder	Crimp	PCB			Solder Contacts [1]	Crimp Contacts	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact		
103 A Z 051		2	●	●	●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm min ø0.58mm AWG18-24	1.5	2.2	2.2	3.0	≤ 250	13
103 A Z 052		3	●		●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	1.2	1.5	1.8	2.0	≤ 250	12
103 A Z 053		4	●		●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.2	1.6	2.0	2.4	≤ 250	7.0
103 A Z 054		5	●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.1	1.4	1.9	2.2	≤ 250	6.8
103 A Z 056		6	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.0	1.3	2.0	2.0	≤ 250	5.2
103 A Z 057		7	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.0	1.3	2.0	2.0	≤ 250	5.0
103 A Z 058		8	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	0.8	1.1	1.4	1.9	≤ 200	3.8
103 A Z 062		12	●	●	●	PEEK	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	max ø0.43mm min ø0.20mm AWG28-32	0.9	1.2	1.5	1.8	≤ 200	2.0
1031 A Z 010		10	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.4	1.5	2.0	2.2	≤ 250	4.5
1031 A Z 012		12	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.4	1.5	2.0	2.2	≤ 250	4.2
1031 A Z 019		19	●	●	●	PEEK	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	max ø0.43mm min ø0.20mm AWG28-32	1.2	0.9	2.0	1.5	≤ 250	2.5

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.
This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

104 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts	Contact Termination: Solder	Crimp	PCB	Insulating Material	Contact ø [mm]	Wire Size [2]: Solder Contacts [1]	Wire Size [2]: Crimp Contacts	Test Voltage [V] in mated position: AC rms: Contact to Body	AC rms: Contact to Contact	DC: Contact to Body	DC: Contact to Contact	Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
104 A Z 051		2	● ❍		● ❍	PEEK PTFE	1.6	max ø1.86mm AWG13 [1] AWG14 [7/22]	–	1.8	2.2	2.8	3.2	≤ 500	20
104 A Z 040		3	❍ ●	●	●	PEEK PBT	1.6	max ø1.86mm AWG13 [1] AWG14 [7/22]	max ø1.78mm min ø1.17mm AWG14-18	1.6	2.0	2.6	3.0	≤ 500	18
104 A Z 037		4	●	●	●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm min ø0.58mm AWG18-24	1.8	2.2	2.5	3.0	≤ 500	12
104 A Z 087		4 (2)	●		●	PBT	2.3	max ø2.48mm AWG11 [1] AWG12 [7/20]	–	1.5	1.6	2.2	2.5	≤ 400	28
		2					0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	2.0		2.8			3.0
104 A Z 053		5	●		●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	1.4	1.7	2.4	2.7	≤ 320	11
104 A Z 065		6	●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.7	2.0	2.4	2.6	≤ 400	6.5
104 A Z 054		7	●		●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.5	1.8 [5] 2.1	2.2	2.0 [5] 2.8	≤ 320	6.5

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.
This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

[5] Test voltages between the contacts with the shortest distance.

All dimensions shown are in millimeters and are for reference only.

104 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts	Contact Termination			Insulating Material	Contact ø [mm]	Wire Size [2]		Test Voltage [V] in mated position				Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
			Solder	Crimp	PCB			Solder Contacts [1]	Crimp Contacts	AC rms		DC			
										Contact to Body	Contact to Contact	Contact to Body	Contact to Contact		
104 AZ 066		8	●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.5	1.5	2.5	2.5	≤ 320	6.2
104 AZ 055		9 (1)	●		●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	2.4	2.2	3.8	3.6	≤ 250	12
		9 (8)					0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.4	1.5	2.0	2.4		6.0
104 AZ 056		11	●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.4	1.5	2.1	2.2	≤ 250	5.8
104 AZ 086		16	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.0	1.5	1.6	2.2	≤ 200	4.0
104 AZ 092		19	●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	0.8	1.2	1.2	1.8	≤ 200	3.5
104 A124 [5]		27		●	●	PEEK	0.5	–	max ø0.43mm min ø0.20mm AWG28-32	1.2	0.5	1.8	0.5	≤ 200	2.0

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.
This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

[5] This configuration has different environmental performances due to the use of another sealant material.
Please contact us for more information.

105 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts		Contact Termination			Insulating Material	Contact ø [mm]	Wire Size [2]		Test Voltage [V] in mated position				Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
											AC rms		DC			
				Solder	Crimp	PCB			Solder Contacts [1]	Crimp Contacts	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact		
105 AZ 051		2		●			PEEK	2.0	max ø2.03mm AWG13 [1] AWG14 [7/22]	–	2.5	3.0	4.0	4.0	≤ 630	26
105 AZ 087		2		●			PEEK	3.0	max ø3.13mm AWG9 [1] AWG10 [105/30]	–	1.2	1.6	2.3	3.0	≤ 400	30
105 AZ 052		3		●			PEEK	2.0	max ø2.03mm AWG13 [1] AWG14 [7/22]	–	2.0	2.5	3.0	3.5	≤ 400	23
105 AZ 053		4		●			PEEK	2.0	max ø2.03mm AWG13 [1] AWG14 [7/22]	–	1.8	1.8	2.6	2.6	≤ 320	20
105 AZ 054 [5]		7	1	●			PEEK	2.0	max ø2.03mm AWG13 [1] AWG14 [7/22]	–	3.0	2.0	4.0	3.0	≤ 320	25
			6					1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	1.8	1.5	2.5	2.0		7.0
105 AZ 067		8		● ❍			PEEK PTFE	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	1.7	2.0	2.5	2.8	≤ 320	10
105 A 124		8	2	●			PEEK	2.3	max ø2.48mm AWG11 [1] AWG12 [7/20]	–	1.2	2.2	1.8	3.2	≤ 250	18.5
			6					1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	1.2	1.2	1.8	1.8		7.5
105 AZ 101 [5]		9	1	●		●	PEEK	2.0	max ø2.03mm AWG13 [1] AWG14 [7/22]	–	3.0	2.0	4.0	3.0	≤ 320	25
			8					1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	1.8	1.5	2.5	2.0		5.0

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.
This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

[5] Contact dia. 2.0 is positioned to make contact first and break last.

All dimensions shown are in millimeters and are for reference only.

105 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts		Contact Termination			Insulating Material	Contact ø [mm]	Wire Size [2]		Test Voltage [V] in mated position				Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
											AC rms		DC			
				Solder	Crimp	PCB			Solder Contacts [1]	Crimp Contacts	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact		
105 AZ **062**		10		●	●	●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm min ø0.58mm AWG18-24	1.7	2.0	2.5	2.7	≤ 320	9.0
105 AZ **069**		12		●		●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	-	1.4	1.5	1.8	2.0	≤ 250	8.0
105 AZ **104** [5]		13	3	●		●	PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	–	2.5	1.5	3.8	2.2	≤ 320	14
			10					0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.3	1.5	1.8	2.2		1.0
105 A **127**		13	3		●		PEEK	1.3	–	max ø1.18mm min ø0.58mm AWG18-24	3.0	2.8	4.8	3.9	≤ 630	14
			10					0.7	–	max ø0.62mm min ø0.38mm AWG24-28	3.1	1.1	4.7	1.9		1.0
105 AZ **058**		15		●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.4	1.6	1.8	2.2	≤ 250	5.3
105 AZ **110** [6]		16	4	●		●	PEEK	1.6	max ø1.86mm AWG13 [1] AWG14 [7/22]	–	1.6	1.3	2.8	2.1	≤ 250	14
			12					0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.0	1.2	1.5	2.0		1.0
105 AZ **038**		18		●	●	●	PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.83mm min ø0.48mm AWG22-26	1.4	1.6	1.8	2.2	≤ 200	4.5
105 AZ **093**		24		●		●	PBT	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	–	1.2	1.5	1.5	2.0	≤ 250	3.5
105 AZ **102**		27		●	●	●	PEEK	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	1.2	1.5	1.5	2.0	≤ 250	3.0

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.
This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

[5] Contacts dia. 1.3 are positioned to make contact first and break last.

[6] Contacts dia. 1.6 are positioned to make contact first and break last.

106 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts	Contact Termination			Insulating Material	Contact ø [mm]	Wire Size [2]		Test Voltage [V] in mated position				Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
										AC rms		DC			
			Solder	Crimp	PCB			Male Solder Contacts [1]	Female Solder Contacts [1]	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact		
106 A/Z 003 [5]		3	● ❍			PTFE PEEK	2.3	max ø2.13mm AWG12 [1] AWG14 [7/22]	max ø2.28mm AWG12 [1] AWG14 [105/34]	3.5	5.0	6.0	6.5	≤ 1000	26
106 A/Z 007 [5][6]		7	● ❍			PTFE PEEK	2.0	max ø2.08mm AWG12 [1] AWG14 [7/22]	max ø2.03mm AWG13 [1] AWG14 [7/22]	2.5	3.0	4.5	4.5	≤ 800	20
106 A/Z 019		8	● ❍			PTFE PEEK	2.0	max ø2.08mm AWG12 [1] AWG14 [7/22]	max ø2.03mm AWG13 [1] AWG14 [7/22]	2.2	2.2	4.0	3.0	≤ 630	19
106 A/Z 015		12	● ❍			PTFE PEEK	2.0	max ø2.08mm AWG12 [1] AWG14 [7/22]	max ø2.03mm AWG13 [1] AWG14 [7/22]	1.8	2.2	2.5	3.0	≤ 500	16
106 A/Z 018		17	● ❍			PTFE PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.23mm AWG17 [1] AWG18 [16/30]	1.8	2.2	2.5	3.0	≤ 500	8.0
106 A/Z 017		24	● ❍			PTFE PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm AWG17 [1] AWG18 [16/30]	1.8	1.5	2.5	2.1	≤ 400	7.0

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.
This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

[5] The contact solder cups are specially insulated.

[6] Contact Number 1 is positioned to make contact first and break last.

All dimensions shown are in millimeters and are for reference only.

107 Series

● = Standard ❍ = Option

Type	Pin Layout	Number of Contacts	Contact Termination: Solder	Crimp	PCB	Insulating Material	Contact ø [mm]	Wire size [2]: Male Solder Contacts [1]	Female Solder Contacts [1]	Test Voltage [V] in mated position: AC rms: Contact to Body	AC rms: Contact to Contact	DC: Contact to Body	DC: Contact to Contact	Rated Voltage [4] r.m.s [V]	Current Rating [3] [A]
107 A Z 013		4	●			PTFE	2.3	max ø2.93mm AWG9 [1] AWG10 [37/26]	max ø2.28mm AWG12 [1] AWG14 [105/34]	6.5	7.0	10	11	≤ 1000	26
107 A Z 018		6	● ❍			PTFE PEEK	2.3	max ø2.93mm AWG9 [1] AWG10 [37/26]	max ø2.28mm AWG12 [1] AWG14 [105/34]	4.5	4.5	6.0	6.0	≤ 800	25
107 A Z 015		19	● ❍			PTFE PEEK	2.0	max ø2.08mm AWG12 [1] AWG14 [7/22]	max ø2.03mm AWG13 [1] AWG14 [7/22]	2.0	2.5	2.5	3.2	≤ 500	13
107 A Z 051		27	● ❍			PTFE PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm AWG17 [1] AWG18 [16/30]	2.0	2.0	3.0	3.2	≤ 400	7.5
107 A Z 052		40	● ❍			PTFE PEEK	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm AWG17 [1] AWG18 [16/30]	1.8	1.5	2.5	2.0	≤ 320	6.5
107 A Z 023		55 8	●			PTFE	1.3	max ø1.18mm AWG17 [1] AWG18 [16/30]	max ø1.18mm AWG17 [1] AWG18 [16/30]	2.0	1.8	2.8	2.5	≤ 400	7.0
		47	❍			PEEK	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.88mm AWG20 [1] AWG22 [19/34]	17	15	2.5	2.1		3.0

[1] Stranding values are in brackets.

[2] For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

[3] Recommended max. operating current per contact at 40°C temperature rise measured according to IEC 60512-3-5b.

[4] Recommended operating voltage at sea level measured according to IEC 60664-1.

This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application-specific safety criteria shall be considered first.
This must be evaluated in the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test Voltage to determine the operating voltage. See page 13-6 for details.

Contents

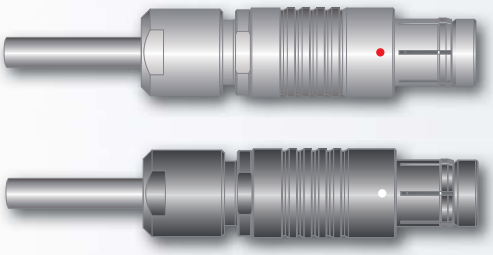
Options Presentation

Options Part Numbering

Housing Colors and Cable Bend Reliefs

Connector Housing Colors

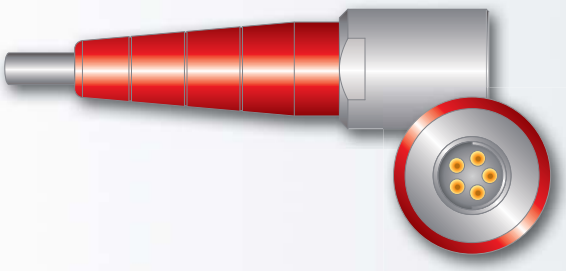
All the body styles of our Core Product Line are available in two colors:



- Natural chrome connector housing with red guide mark.
- Non reflective black chrome housing with white guide mark.

Guide mark is standard for Multipole Low and High Voltage, Mixed Multipole and Mixed Coax Connectors.

Color-coding is achieved by using accessories:



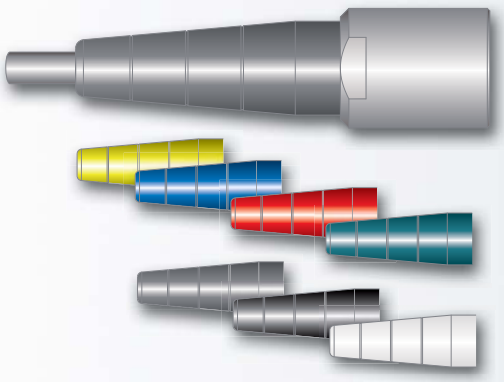
- Cable Bend Reliefs for Cable Connectors.
- Washers for Panel Connectors.

For detailed information on Cable Bend Reliefs and Washers, See Section 11 Accessories.

Our AluLite™ connector Series – ideal for ultralight product development – features a wide array of housing colors. For more, **download** AluLite™ series catalogue at **www.fischerconnectors.com/catalogues.**

Cable Bend Reliefs and Clamp Nut Types

A cable bend relief is a useful accessory for connectors mounted with cable clamp sets (S/SC; SOV; SA; SV; WSO; K/KE; DK; DKE; DBKE).



It enables to:

- Prevent cable torsion, enhancing your connections efficiency.
- Color-code your connectors for easy identification.

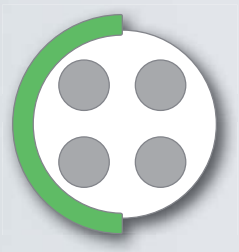
Cable bend reliefs require special clamp nuts, thus are linked with your selection of options.

For detailed information on cable bend reliefs and washers, see Section 11 Accessories.

Mechanical Coding

For Easy Connect / Disconnect Operations

Our contact blocks are engineered with arc-shape metal guides, which ensure precise alignement of connectors during the mating process.



This guiding mechanism provides:

- Increased safety and user friendliness by preventing misconnection.
- Easy mating cycles, can be blind-mated.
- Increased equipment life span by optimally protecting the contacts.

Keying Codes Options

All Multipole body styles are mechanically coded.
Code 1 is the standard, but other codes can be requested (See table below).

	Female Block	Male Block
Code 1		
Code 2		
Code 3		

Other keying codes are available on request, please contact us.

Multipole Low Voltage, High Voltage & Mixed Connectors

1	**Housing Color** Which housing color do you need?		NATURAL CHROME with Red Guide Mark				
2	**Contact Block Material** Which contact block material do you need?		PTFE	PBT		PEEK	
3	**Contact Type** Which contact type do you need?		Solder	Solder	Crimp[1)]	Solder	Crimp[1)]
4	**Keying Code** Which keying code do you need?	Code 1	-60	-80	-100	-130	-150
		Code 2	-2060	-2080	-2100	-230	-250
		Code 3	-3060	-3080	-3100	-330	-350

[1)] Crimp contacts are not an option for sealed or hermetic connectors.

Cable Bend Relief

Do you need a cable bend relief, and if yes which color?

Applicable for	Last Digit	Description
Cable Mounted Plugs & Receptacles using Cable Clamp Sets Except SS/SSC-KS/KSE	0	Clamp nut without bend relief
	1	Clamp nut with white bend relief
	2	Clamp nut with black bend relief
	3	Clamp nut with green bend relief
	4	Clamp nut with blue bend relief
	5	Clamp nut with yellow bend relief
	6	Clamp nut with red bend relief
	7	Clamp nut with grey bend relief

Contact Type for Panel Mounted Connectors

Applicable for	Last Digit	Description
Front Mounted: D-DEU/E-DB-DBEU/E-DG-SF-SFU/E	0	Standard: solder contacts
	9	With PCB (Printed Circuit Board) contacts instead of solder contacts
Rear Mounted: DBP-DBPU/E-DBPLU/E-DGP-SFPU/E	0	Standard: PCB (Printed Circuit Board) contacts
	9	With solder contacts instead of PCB (Printed Circuit Board) contacts

Design and Accessories

Applicable for	Extensions	Description
Receptacles	N	Nickel plated body with bright finish
	E	EPDM interface O-ring
	G	Ground tag if solder contact or Ground pin if PCB contact
	B	Black Nut
	D	Decorative slotted nut
	F	Decorative nut (with 2 flats)

Other options are available on request, please contact us.

Multipole Low Voltage, High Voltage & Mixed Connectors

BLACK CHROME with White Guide Mark				
PTFE	PBT		PEEK	
Solder	Solder	Crimp[1)]	Solder	Crimp[1)]
-70	-90	-110	-140	-160
-2070	-2090	-2110	-240	-260
-3070	-3090	-3110	-340	-360

[1)] Crimp contacts are not an option for sealed or hermetic connectors.

Examples

Plugs

S 102 A056 - 130+
Natural chrome housing color with PEEK contact block, solder contacts, keying code 1, clamp nut without bend relief and without cable clamp set (To be ordered separately)

S 102 A056 - 232+
Natural chrome housing color with PEEK contact block, solder contacts, keying code 2, clamp nut with black bend relief, without cable clamp set

SS 102 A056 - 260
Black chrome housing color with PEEK contact block, crimp contacts, keying code 2

Receptacles

D 102 A056 - 130
Natural chrome housing color with PEEK contact block, solder contacts, keying code 1

D 102 A056 - 260
Black chrome housing color with PEEK contact block, crimp contacts, keying code 2

DBPU 102 A056 - 130G
Natural chrome housing color with PEEK contact block, PCB contacts, keying code 1 and ground pin

DBPU 102 A056 - 130NBE
Nickel plated body with PEEK contact block, solder contacts, keying code 1, with black nut and EPDM interface O-ring

Contents

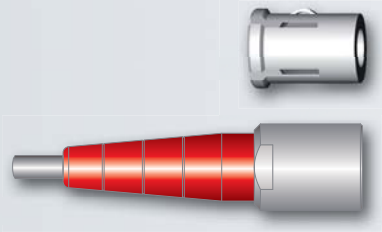
Introduction

Dimensions S/SC; SOV; SA; SV; K/KE; DK; DKE and DKBE; Body Styles

Dimensions WSO Body Style

Introduction

To guarantee excellent cable retention and strain relief, Fischer Connectors provides robust and high quality cable clamp sets:



- Collet style clamp system retaining cable over large jacket surface area.
- Protection of small diameters and delicate conductors.
- Can be combined with cable bend reliefs for optimal performance. See Accessories, page 11-2.

Cable clamp sets are suitable for all cable mounted connectors, except SS/SSC and KS/KSE.
For these specific body styles, see Section 3 Cable Assembly for overmolding or heat shrinking techniques.

Range Overview: S, U and E Cable Clamp Sets

Fischer Connectors offers three types of cable clamps sets.
The table below will help you select the one corresponding to your needs.

Cable Clamp Set	Do you need the interface between the cable and the connector to be sealed?		Do you need the connector to be terminated to the cable shield?	
	Unsealed	Sealed	Unshielded	Shielded
S - Shielded	●			●
U - Unshielded	●		●	
E - Environmental		●	●	●

For 106 and 107 connector series, only S and E cable clamp sets are available. See page 4-11-7 and 4-11-8 for details.

Part Numbering

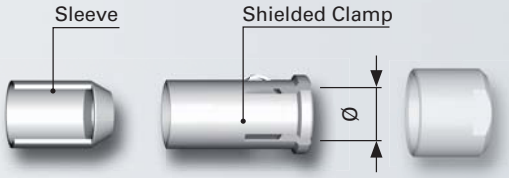
Below Cable Clamp Sets Should be Ordered Separately	
Multipole Low Voltage	Triax
S 102 A056-130 +	
Examples	
Connector ordering line	
S 102 A056-130 +	
Clamp Set ordering line	
E3 102.5/2.0	
See following pages for Cable Clamp Set selection.	

Below Cable Clamp Sets are Included with Connector	
Coax Low Voltage	Coax High Voltage
Shielded (S) or Environmental (E) Cable Clamp Set diameter should be added to the connector part number separated by ø.	
Examples	
For S - Shielded Clamp Sets	
K 103 A002-600 ø6.2	
For E - Environmental Clamp Sets	
KE 103 A002-600 ø6.2	
See following pages for S or E Cable Clamp Set selection.	

102 Series

S - Shielded

Shielded cable clamp with sleeve.

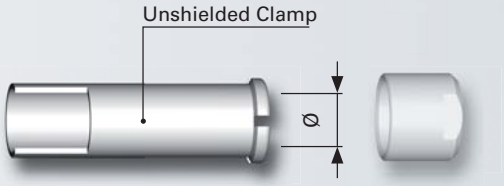


Cable dia. Range	Collet Ø	Cable Clamp Set [1]
1.5 - 2.1	2.1	E32 102.1/2.1 + A
2.1 - 2.6	2.6	E32 102.1/2.6 + A
2.6 - 3.1	3.1	E32 102.1/3.1 + A
3.1 - 3.6	3.6	E32 102.1/3.6 + A

Cable dia. Range	Collet Ø	Cable Clamp Set [1]
3.6 - 4.1	4.1	E32 102.1/4.1 + A
4.1 - 4.3	4.3	E32 102.1/4.3 + A
4.3 - 4.7	4.7	102.248 + A

U - Unshielded

Unshielded, one-piece cable clamp.

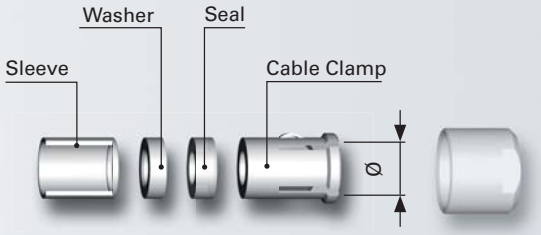


Cable dia. Range	Collet Ø	Cable Clamp Set [1]
1.4 - 2.0	2.0	E3 102.5/2.0
2.0 - 2.7	2.7	E3 102.5/2.7
2.7 - 3.5	3.5	E3 102.5/3.5

Cable dia. Range	Collet Ø	Cable Clamp Set [1]
3.5 - 4.2	4.2	E3 102.5/4.2
4.2 - 4.7	4.7	E3 102.5/4.7

E - Environmental

Environmentally sealed clamp for use with shielded or unshielded cables.



Cable dia. Range	Collet Ø	Cable Clamp Set [1]
1.5 - 2.1	2.1	E31 102.2/2.1 + B
2.1 - 2.6	2.6	E31 102.2/2.6 + B
2.6 - 3.1	3.1	E31 102.2/3.1 + B

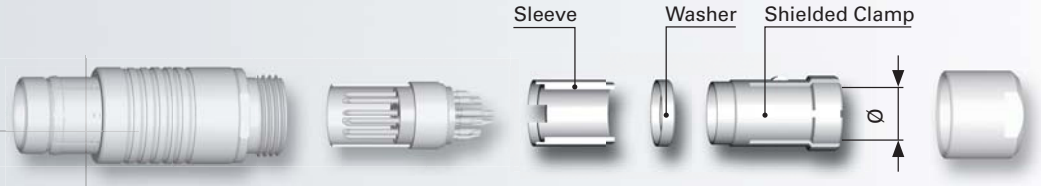
Cable dia. Range	Collet Ø	Cable Clamp Set [1]
3.1 - 3.6	3.6	E31 102.2/3.6 + B
3.6 - 4.1	4.1	E31 102.2/4.1 + B
4.1 - 4.3	4.3	E31 102.2/4.3 + B

[1] For ordering information see Page 4-11-1.

103 Series

S - Shielded

Shielded cable clamp with washer and sleeve.

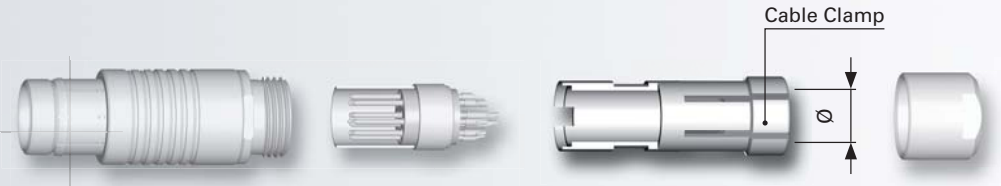


Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
1.7 - 2.2	2.2	E31 103.1/2.2 +B
2.2 - 2.7	2.7	E31 103.1/2.7 +B
2.7 - 3.2	3.2	E31 103.1/3.2 +B
3.2 - 3.7	3.7	E31 103.1/3.7 +B
3.7 - 4.2	4.2	E31 103.1/4.2 +B

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
4.2 - 4.7	4.7	E31 103.1/4.7 +B
4.7 - 5.2	5.2	E31 103.1/5.2 +B
5.2 - 5.7	5.7	E31 103.1/5.7 +B
5.7 - 6.2	6.2	E31 103.1/6.2 +B
6.2 - 6.7	6.7	E31 103.1/6.7 +B

U - Unshielded

Unshielded, one-piece cable clamp.

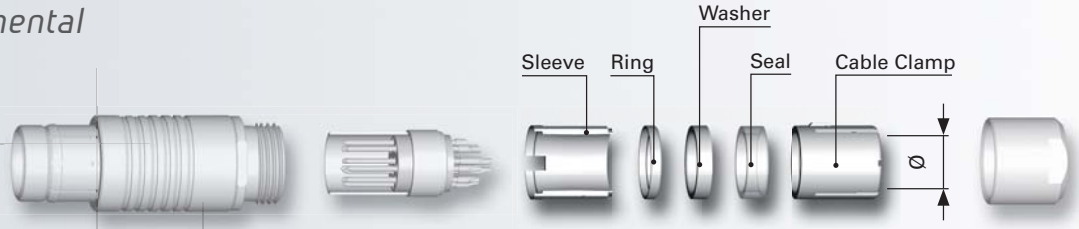


Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
2.2 - 3.2	3.2	E3 103.6/3.2
3.2 - 4.2	4.2	E3 103.6/4.2
4.2 - 4.7	4.7	E3 103.6/4.7
4.7 - 5.2	5.2	E3 103.6/5.2

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
5.2 - 5.7	5.7	E3 103.6/5.7
5.7 - 6.2	6.2	E3 103.6/6.2
6.2 - 6.7	6.7	E3 103.6/6.7

E - Environmental

Environmentally sealed clamp for use with shielded or unshielded cables.



Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
1.7 - 2.2	2.2	E31 103.2/2.2 + B
2.2 - 2.7	2.7	E31 103.2/2.7 + B
2.7 - 3.2	3.2	E31 103.2/3.2 + B
3.2 - 3.7	3.7	E31 103.2/3.7 + B
3.7 - 4.2	4.2	E31 103.2/4.2 + B

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
4.2 - 4.7	4.7	E31 103.2/4.7 + B
4.7 - 5.2	5.2	E31 103.2/5.2 + B
5.2 - 5.7	5.7	E31 103.2/5.7 + B
5.7 - 6.2	6.2	E31 103.2/6.2 + B

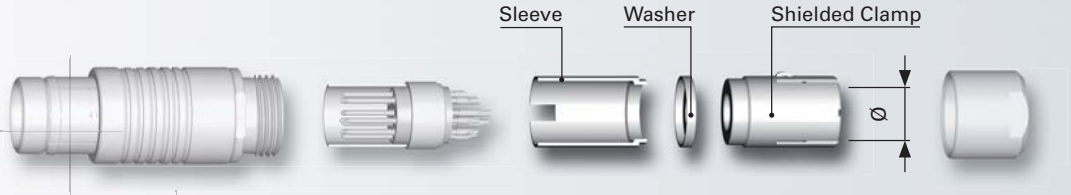
[1] For ordering information see Page 4-11-1.

All dimensions shown are in millimeters and are for reference only.

1031 Series

S - Shielded

Shielded cable clamp with washer and sleeve.

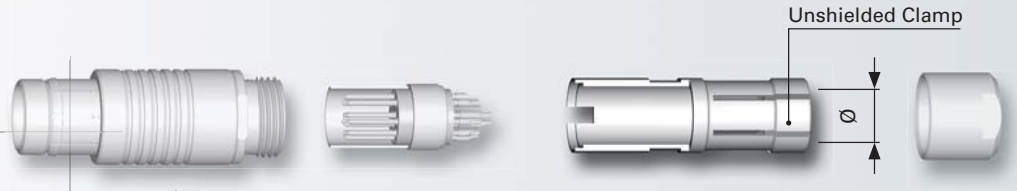


Cable dia. Range	Collet Ø	Cable Clamp Set [1]
2.2 - 2.7	2.7	E3 1031.1/2.7
2.7 - 3.2	3.2	E3 1031.1/3.2
3.2 - 3.7	3.7	E3 1031.1/3.7
3.7 - 4.2	4.2	E3 1031.1/4.2
4.2 - 4.7	4.7	E3 1031.1/4.7

Cable dia. Range	Collet Ø	Cable Clamp Set [1]
4.7 - 5.2	5.2	E3 1031.1/5.2
5.2 - 5.7	5.7	E3 1031.1/5.7
5.7 - 6.2	6.2	E3 1031.1/6.2
6.2 - 6.7	6.7	E3 1031.1/6.7
6.7 - 7.2	7.2	E3 1031.1/7.2

U - Unshielded

Unshielded, one-piece cable clamp.

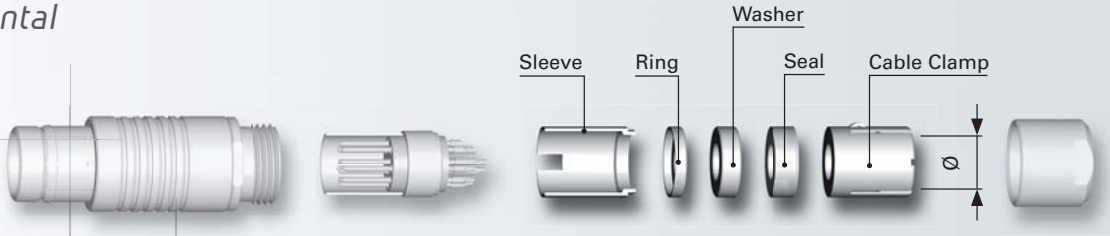


Cable dia. Range	Collet Ø	Cable Clamp Set [1]
2.2 - 2.7	2.7	E3 1031.6/2.7
2.7 - 3.2	3.2	E3 1031.6/3.2
3.2 - 3.7	3.7	E3 1031.6/3.7
3.7 - 4.2	4.2	E3 1031.6/4.2
4.2 - 4.7	4.7	E3 1031.6/4.7

Cable dia. Range	Collet Ø	Cable Clamp Set [1]
4.7 - 5.2	5.2	E3 1031.6/5.2
5.2 - 5.7	5.7	E3 1031.6/5.7
5.7 - 6.2	6.2	E3 1031.6/6.2
6.2 - 6.7	6.7	E3 1031.6/6.7
6.7 - 7.2	7.2	E3 1031.6/7.2

E - Environmental

Environmentally sealed clamp for use with shielded or unshielded cables.



Cable dia. Range	Collet Ø	Cable Clamp Set [1]
2.2 - 2.7	2.7	E3 1031.2/2.7
2.7 - 3.2	3.2	E3 1031.2/3.2
3.2 - 3.7	3.7	E3 1031.2/3.7
3.7 - 4.2	4.2	E3 1031.2/4.2
4.2 - 4.7	4.7	E3 1031.2/4.7

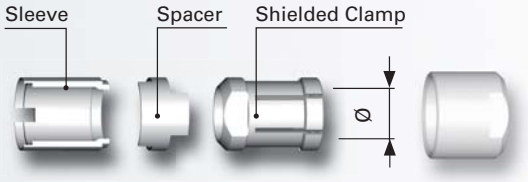
Cable dia. Range	Collet Ø	Cable Clamp Set [1]
4.7 - 5.2	5.2	E3 1031.2/5.2
5.2 - 5.7	5.7	E3 1031.2/5.7
5.7 - 6.2	6.2	E3 1031.2/6.2
6.2 - 6.7	6.7	E3 1031.2/6.7

[1] For ordering information see Page 4-11-1.

104 Series

S - Shielded

Shielded cable clamp with spacer and sleeve.

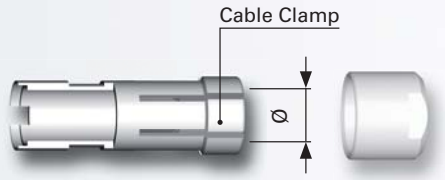


Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator	
		Plug	Receptacle
2.9 - 4.0	4.0	E3 104.3/4.0 + B	E3 104.4/4.0 + C
4.0 - 4.7	4.7	E3 104.3/4.7 + B	E3 104.4/4.7 + C
4.7 - 5.7	5.7	E3 104.3/5.7 + B	E3 104.4/5.7 + C

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator	
		Plug	Receptacle
5.7 - 6.7	6.7	E3 104.3/6.7 + B	E3 104.4/6.7 + C
6.7 - 7.7	7.7	E3 104.3/7.7 + B	E3 104.4/7.7 + C
7.7 - 8.7	8.7	E3 104.3/8.7 + B	E3 104.4/8.7 + C
8.7 - 9.1	9.1	E3 104.3/9.1 + B	E3 104.4/9.1 + C

U - Unshielded

Unshielded, one-piece cable clamp.

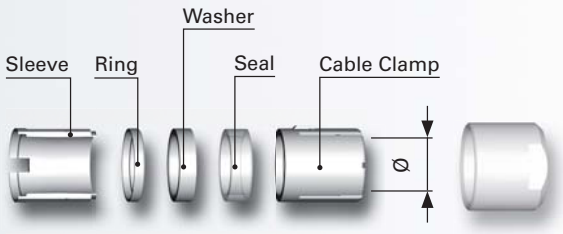


Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
3.2 - 4.2	4.2	E3 104.6/4.2
4.2 - 4.7	4.7	E3 104.6/4.7
4.7 - 5.7	5.7	E3 104.6/5.7
5.7 - 6.7	6.7	E3 104.6/6.7

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
6.7 - 7.7	7.7	E3 104.6/7.7
7.7 - 8.2	8.2	E3 104.6/8.2
8.2 - 8.7	8.7	E3 104.6/8.7

E - Environmental

Environmentally sealed clamp for use with shielded or unshielded cables.



Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator	
		Plug	Receptacle
2.9 - 4.0	4.0	E3 104.2/4.0 + B	E3 104.2/4.0 + C
4.0 - 4.7	4.7	E3 104.2/4.7 + B	E3 104.2/4.7 + C
4.7 - 5.7	5.7	E3 104.2/5.7 + B	E3 104.2/5.7 + C

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator	
		Plug	Receptacle
5.7 - 6.7	6.7	E3 104.2/6.7 + B	E3 104.2/6.7 + C
6.7 - 7.7	7.7	E3 104.2/7.7 + B	E3 104.2/7.7 + C
7.7 - 8.7	8.7	E3 104.2/8.7 + B	E3 104.2/8.7 + C

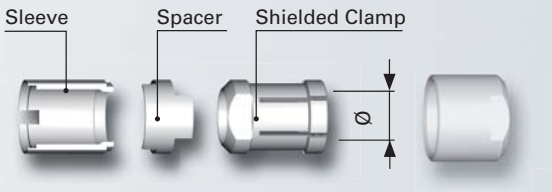
[1] For ordering information see Page 4-11-1.

All dimensions shown are in millimeters and are for reference only.

105 Series

S - Shielded

Shielded cable clamp with spacer and sleeve.

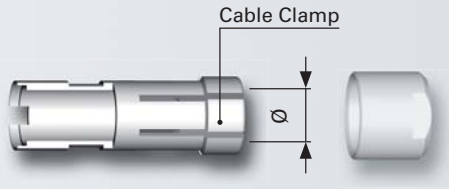


Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
3.2 - 4.2	4.2	E3 105.1/4.2 + B
4.2 - 5.2	5.2	E3 105.1/5.2 + B
5.2 - 6.2	6.2	E3 105.1/6.2 + B
6.2 - 7.2	7.2	E3 105.1/7.2 + B

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
7.2 - 8.2	8.2	E3 105.1/8.2 + B
8.2 - 9.2	9.2	E3 105.1/9.2 + B
9.2 - 10.0	10.0	E3 105.1/10.0 + B
10.0 - 10.7	10.7	E3 105.1/10.7 + B

U - Unshielded

Unshielded, one-piece cable clamp.

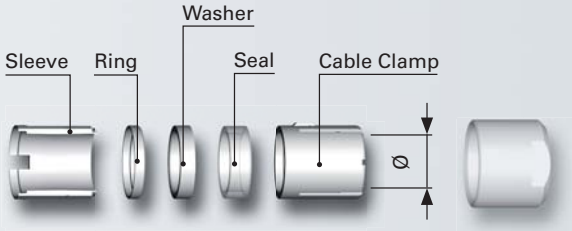


Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
2.5 - 3.5	3.5	E3 105.6/3.5
3.5 - 4.5	4.5	E3 105.6/4.5
4.5 - 5.5	5.5	E3 105.6/5.5
5.5 - 6.5	6.5	E3 105.6/6.5

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
6.5 - 7.5	7.5	E3 105.6/7.5
7.5 - 8.5	8.5	E3 105.6/8.5
8.5 - 9.5	9.5	E3 105.6/9.5
9.5 - 10.5	10.5	E3 105.6/10.5

E - Environmental

Environmentally sealed clamp for use with shielded or unshielded cables.



Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
3.2 - 4.2	4.2	E31 105.2/4.2 + B
4.2 - 5.2	5.2	E31 105.2/5.2 + B
5.2 - 6.2	6.2	E31 105.2/6.2 + B
6.2 - 7.2	7.2	E31 105.2/7.2 + B

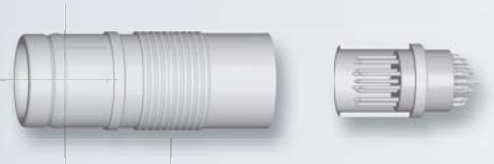
Cable dia. Range	Collet Ø	Cable Clamp Set [1] PEEK or PBT Insulator
7.2 - 8.2	8.2	E31 105.2/8.2 + B
8.2 - 9.2	9.2	E31 105.2/9.2 + B
9.2 - 10.0	10.0	E31 105.2/10.0 + B
10.0 - 10.7	10.7	E31 105.2/10.7 + B

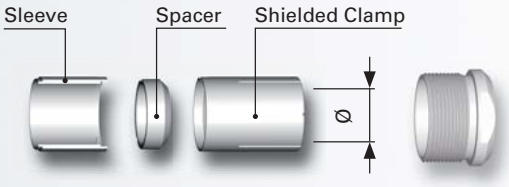
[1] For ordering information see Page 4-11-1.

106 Series

S - Shielded

Shielded cable clamp
with spacer and sleeve.





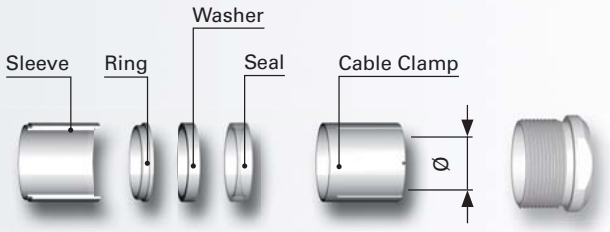
Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE Insulator	
		Plug	Receptacle
4.2 - 5.2	5.2	E3 106.1/5.2	E3 106.3/5.2
5.2 - 6.2	6.2	E3 106.1/6.2	E3 106.3/6.2
6.2 - 7.2	7.2	E3 106.1/7.2	E3 106.3/7.2
7.2 - 8.2	8.2	E3 106.1/8.2	E3 106.3/8.2
8.2 - 9.2	9.2	E3 106.1/9.2	E3 106.3/9.2
9.2 - 10.2	10.2	E3 106.1/10.2	E3 106.3/10.2
10.2 - 11.2	11.2	E3 106.1/11.2	E3 106.3/11.2
11.2 - 12.2	12.2	E3 106.1/12.2	E3 106.3/12.2

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE Insulator	
		Plug	Receptacle
12.2 -13.2	13.2	E3 106.1/13.2	E3 106.3/13.2
13.2 - 14.2	14.2	E3 106.1/14.2	E3 106.3/14.2
14.2 - 15.2	15.2	E3 106.1/15.2	E3 106.3/15.2
15.2 - 16.2	16.2	E3 106.1/16.2	E3 106.3/16.2
16.2 - 17.2	17.2	E3 106.1/17.2	E3 106.3/17.2
17.2 - 18.2	18.2	E3 106.1/18.2	E3 106.3/18.2
18.2 - 19.2	19.2	E3 106.1/19.2	E3 106.3/19.2

Shielded cable clamps with washers and sleeves.

E - Environmental

Environmentally
sealed clamp
for use with shielded
or unshielded cables.



Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE Insulator	
		Plug	Receptacle
4.2 - 5.2	5.2	E3 106.2/5.2	E3 106.4/5.2
5.2 - 6.2	6.2	E3 106.2/6.2	E3 106.4/6.2
6.2 - 7.2	7.2	E3 106.2/7.2	E3 106.4/7.2
7.2 - 8.2	8.2	E3 106.2/8.2	E3 106.4/8.2
8.2 - 9.2	9.2	E3 106.2/9.2	E3 106.4/9.2
9.2 - 10.2	10.2	E3 106.2/10.2	E3 106.4/10.2
10.2 - 11.2	11.2	E3 106.2/11.2	E3 106.4/11.2
11.2 - 12.2	12.2	E3 106.2/12.2	E3 106.4/12.2

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE Insulator	
		Plug	Receptacle
12.2 -13.2	13.2	E3 106.2/13.2	E3 106.4/13.2
13.2 - 14.2	14.2	E3 106.2/14.2	E3 106.4/14.2
14.2 - 15.2	15.2	E3 106.2/15.2	E3 106.4/15.2
15.2 - 16.2	16.2	E3 106.2/16.2	E3 106.4/16.2
16.2 - 17.2	17.2	E3 106.2/17.2	E3 106.4/17.2
17.2 - 18.2	18.2	E3 106.2/18.2	E3 106.4/18.2
18.2 - 19.2	19.2	E3 106.2/19.2	E3 106.4/19.2

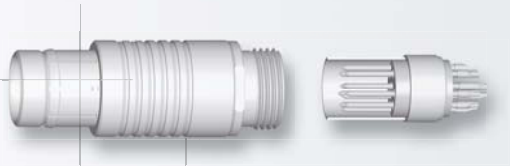
[1] For ordering information see Page 4-11-1.

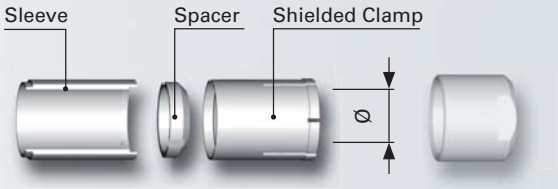
All dimensions shown are in millimeters and are for reference only.

107 Series

S - Shielded

Shielded cable clamp with spacer and sleeve.



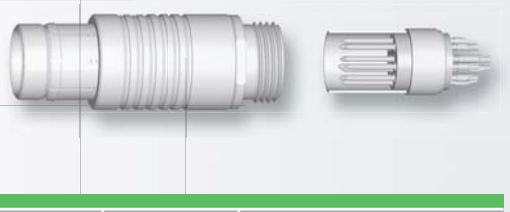


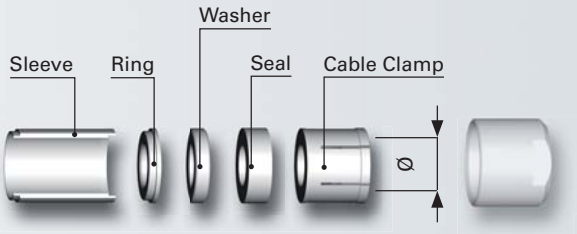
Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE insulator
5.7 - 7.2	7.2	E3 107.1/7.2
7.2 - 8.2	8.2	E3 107.1/8.2
8.2 - 9.2	9.2	E3 107.1/9.2
9.2 - 10.2	10.2	E3 107.1/10.2
10.2 - 11.2	11.2	E3 107.1/11.2
11.2 - 12.2	12.2	E3 107.1/12.2
12.2 - 13.2	13.2	E3 107.1/13.2
13.2 - 14.2	14.2	E3 107.1/14.2

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE insulator
14.2 -15.2	15.2	E3 107.1/15.2
15.2 - 16.2	16.2	E3 107.1/16.2
16.2 - 17.2	17.2	E3 107.1/17.2
17.2 - 18.2	18.2	E3 107.1/18.2
18.2 - 19.2	19.2	E3 107.1/19.2
19.2 - 20.2	20.2	E3 107.1/20.2
20.2 - 21.2	21.2	E3 107.1/21.2
21.2 - 22.7	22.7	E3 107.1/22.7

E - Environmental

Environmentally sealed clamp for use with shielded or unshielded cables.





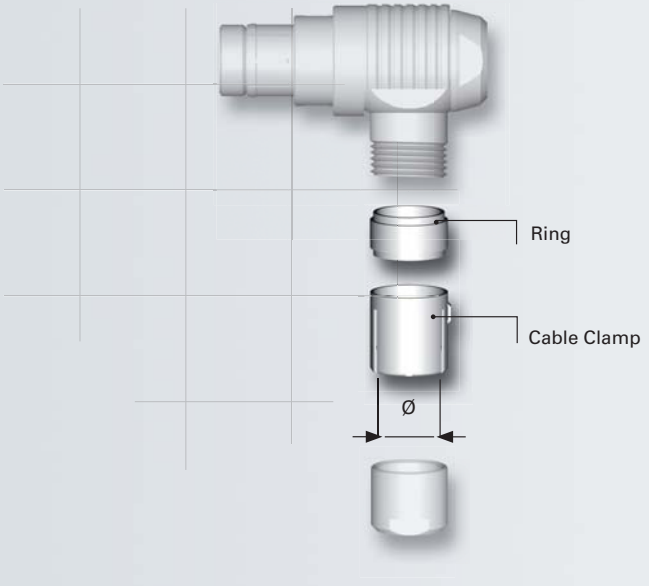
Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE insulator
5.7 - 7.2	7.2	E3 107.2/7.2
7.2 - 8.2	8.2	E3 107.2/8.2
8.2 - 9.2	9.2	E3 107.2/9.2
9.2 - 10.2	10.2	E3 107.2/10.2
10.2 - 11.2	11.2	E3 107.2/11.2
11.2 - 12.2	12.2	E3 107.2/12.2
12.2 - 13.2	13.2	E3 107.2/13.2
13.2 - 14.2	14.2	E3 107.2/14.2

Cable dia. Range	Collet Ø	Cable Clamp Set [1] PTFE insulator
14.2 - 15.2	15.2	E3 107.2/15.2
15.2 - 16.2	16.2	E3 107.2/16.2
16.2 - 17.2	17.2	E3 107.2/17.2
17.2 - 18.2	18.2	E3 107.2/18.2
18.2 - 19.2	19.2	E3 107.2/19.2
19.2 - 20.2	20.2	E3 107.2/20.2
20.2 - 21.2	21.2	E3 107.2/21.2
21.2 - 22.7	22.7	E3 107.2/22.7

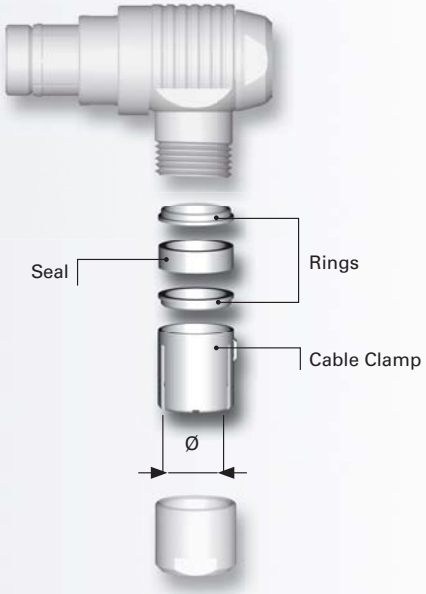
[1] For ordering information see Page 4-11-1.

WSO 102, 103, 1031, 104 and 105 Series

■ S-Shielded or U-Unshielded (Unsealed)



■ E-Environmental (Sealed)



Series	Cable dia. Range	Clamp Ø	Cable Clamp Set [1]	
			Unsealed	Sealed
102	1.5 - 2.1	2.1	E3 102.12/2.1	E3 102.13/2.1
	2.1 - 2.6	2.6	E3 102.12/2.6	E3 102.13/2.6
	2.6 - 3.1	3.1	E3 102.12/3.1	E3 102.13/3.1
	3.1 - 3.6	3.6	E3 102.12/3.6	E3 102.13/3.6
	3.6 - 4.1	4.1	E3 102.12/4.1	E3 102.13/4.1
	4.1 - 4.3	4.3	E3 102.12/4.3	E3 102.13/4.3
	4.3 - 4.7	4.7	E3 102.12/4.7	-
103	1.7 - 2.2	2.2	E3 103.12/2.2	E3 103.13/2.2
	2.2 - 2.7	2.7	E3 103.12/2.7	E3 103.13/2.7
	2.7 - 3.2	3.2	E3 103.12/3.2	E3 103.13/3.2
	3.2 - 3.7	3.7	E3 103.12/3.7	E3 103.13/3.7
	3.7 - 4.2	4.2	E3 103.12/4.2	E3 103.13/4.2
	4.2 - 4.7	4.7	E3 103.12/4.7	E3 103.13/4.7
	4.7 - 5.2	5.2	E3 103.12/5.2	E3 103.13/5.2
	5.2 - 5.7	5.7	E3 103.12/5.7	E3 103.13/5.7
	5.7 - 6.2	6.2	E3 103.12/6.2	E3 103.13/6.2
	6.2 - 6.7	6.7	E3 103.12/6.7	-

Series	Cable dia. Range	Clamp Ø	Cable Clamp Set [1]	
			Unsealed	Sealed
1031	2.2 - 2.7	2.7	E3 1031.12/2.7	E3 1031.13/2.7
	2.7 - 3.2	3.2	E3 1031.12/3.2	E3 1031.13/3.2
	3.2 - 3.7	3.7	E3 1031.12/3.7	E3 1031.13/3.7
	3.7 - 4.2	4.2	E3 1031.12/4.2	E3 1031.13/4.2
	4.2 - 4.7	4.7	E3 1031.12/4.7	E3 1031.13/4.7
	4.7 - 5.2	5.2	E3 1031.12/5.2	E3 1031.13/5.2
	5.2 - 5.7	5.7	E3 1031.12/5.7	E3 1031.13/5.7
	5.7 - 6.2	6.2	E3 1031.12/6.2	E3 1031.13/6.2
	6.2 - 6.7	6.7	E3 1031.12/6.7	E3 1031.13/6.7
	6.7 - 7.2	7.2	E3 1031.12/7.2	-
104	2.9 - 4.0	4.0	E3 104.12/4.0	E3 104.13/4.0
	4.0 - 4.7	4.7	E3 104.12/4.7	E3 104.13/4.7
	4.7 - 5.7	5.7	E3 104.12/5.7	E3 104.13/5.7
	5.7 - 6.7	6.7	E3 104.12/6.7	E3 104.13/6.7
	6.7 - 7.7	7.7	E3 104.12/7.7	E3 104.13/7.7
	7.7 - 8.7	8.7	E3 104.12/8.7	E3 104.13/8.7
105	3.2 - 4.2	4.2	E3 105.12/4.2	E3 105.13/4.2
	4.2 - 5.2	5.2	E3 105.12/5.2	E3 105.13/5.2
	5.2 - 6.2	6.2	E3 105.12/6.2	E3 105.13/6.2
	6.2 - 7.2	7.2	E3 105.12/7.2	E3 105.13/7.2
	7.2 - 8.2	8.2	E3 105.12/8.2	E3 105.13/8.2
	8.2 - 9.2	9.2	E3 105.12/9.2	E3 105.13/9.2
	9.2 - 10.0	10.0	E3 105.12/10.0	E3 105.13/10.0
	10.0 - 10.7	10.7	E3 105.12/10.7	E3 105.13/10.7

[1] For ordering information see Page 4-11-1

All dimensions shown are in millimeters and are for reference only.