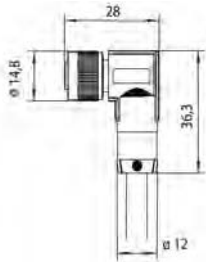


Actuator sensor interface · M12 – cables

Female M12 angled with PUR cable, shielded 360°, open end self-locking screwed connection
c-track compatible



Dimensions

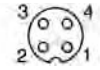


PIN assignment

456602, 456605, 456610



456702, 456705, 456710

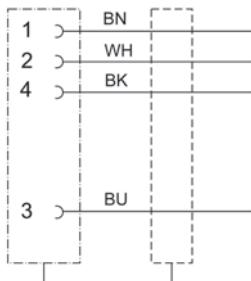


Circuit diagram

456602, 456605, 456610



456702, 456705, 456710

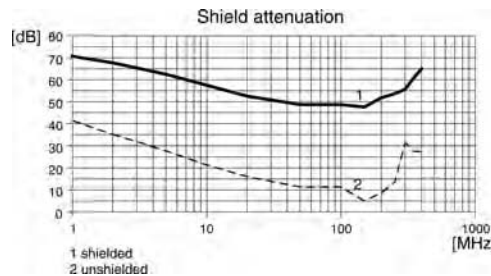


Description	Part-No.	Type	PU	
3-pole				
Cable length	2.0	456602	KUW3-M12 (C) 2M-PUR	10
	5.0	456605	KUW3-M12 (C) 5M-PUR	10
	10.0	456610	KUW3-M12 (C) 10M-PUR	10
4-pole				
Cable length	2.0	456702	KUW4-M12 (C) 2M-PUR	10
	5.0	456705	KUW4-M12 (C) 5M-PUR	10
	10.0	456710	KUW4-M12 (C) 10M-PUR	10

Technical data	3-pole			4-pole		
Nominal voltage				AC/DC 24 V		
Nominal voltage range				max. 250 V		
Rated current				4 A		
Number of terminations	3			4		
Cable length	2.0	5.0	10.0	2.0	5.0	10.0
Status Indication				-		
Current Consumption per LED				-		
Coding				A		
Shielding				360°		
General						
Form				M12 × 1, female angled		
Rated insulation voltage (EN 50178)				250 V		
Test voltage				2.5 kV		
Pollution degree				3		
Insulation resistance				>10 ⁹ Ω		
Contact resistance				<5 mΩ		
Class of flammability according to UL 94				V0		
Protection class				IP 67, in screwed condition		
Housing material				TPU black		
Contact material				CuSn, gold plated nickel		
Thread material				CuSn nickel plated		
Gasket				NBR		
Cable construction	3 × 0.34 mm ² (42 × 0.1)			4 × 0.34 mm ² (42 × 0.1)		
Cable jacket				PUR, RAL 9001 black		
Conductor insulation				PVC coloured		
Cable diameter				5.9 mm		
Bending radius				15 x cable diameter		
Storage temperature range				-30 °C – 90 °C		
Temperature range connector				-25 °C – 90 °C		
Temperature range cable fixed				-25 °C – 80 °C		
Temperature range cable moving				-5 °C – 80 °C		
Mechanical service life				-		
Weight (kg/piece)	0.115	0.225	0.420	0.125	0.275	0.520
Approvals				cULus		

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Action chart

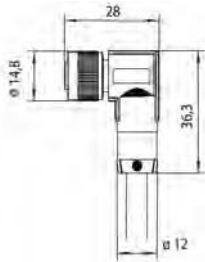


Actuator sensor interface · M12 – cables

Female M12 angled with PUR cable, shielded 360°, open end self-locking screwed connection
c-track compatible



Dimensions



PIN assignment

456802, 456805, 456810

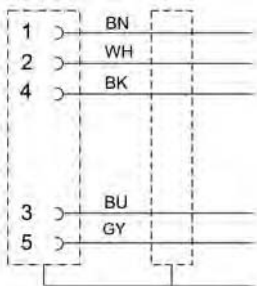


458902, 458905, 458910

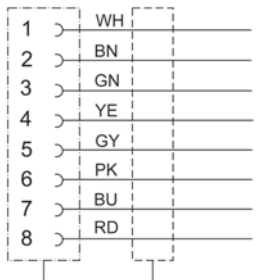


Circuit diagram

456802, 456805, 456810



458902, 458905, 458910

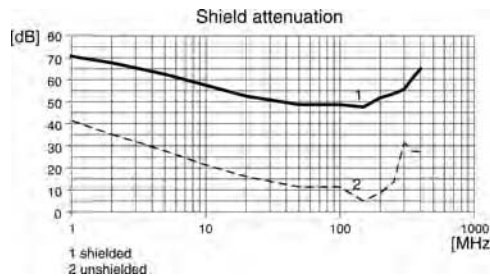


Description	Part-No.	Type	PU	
5-pole				
Cable length	2.0	456802	KUW5-M12 (C) 2M-PUR	10
	5.0	456805	KUW5-M12 (C) 5M-PUR	10
	10.0	456810	KUW5-M12 (C) 10M-PUR	10
8-pole				
Cable length	2.0	458902	KUW8-M12 (C) 2M-PUR	10
	5.0	458905	KUW8-M12 (C) 5M-PUR	10
	10.0	458910	KUW8-M12 (C) 10M-PUR	10

Technical data	5-pole			8-pole		
Nominal voltage	AC/DC 24 V					
Nominal voltage range	max. 60 V			max. 30 V		
Rated current	max. 4 A per contact			max. 2 A per contact		
Number of terminations	5			8		
Cable length	2.0	5.0	10.0	2.0	5.0	10.0
Status Indication	-					
Current Consumption per LED	-					
Coding	A					
Shielding	360°					
General						
Form	M12 × 1, female angled					
Rated insulation voltage (EN 50178)	63 V			36 V		
Test voltage	1.5 kV					
Pollution degree	3					
Insulation resistance	>10 ⁹ Ω					
Contact resistance	<5 mΩ					
Class of flammability according to UL 94	V0					
Protection class	IP 67, in screwed condition					
Housing material	TPU black					
Contact material	CuSn, gold plated nickel					
Thread material	CuSn nickel plated					
Gasket	NBR					
Cable construction	5 × 0.34 mm ² (42 × 0.1)			8 × 0.25 mm ² (32 × 0.1)		
Cable jacket	PUR, RAL 9001 black					
Conductor insulation	PVC coloured					
Cable diameter	5.9 mm					
Bending radius	15 x cable diameter					
Storage temperature range	-30 °C – 90 °C					
Temperature range connector	-25 °C – 90 °C					
Temperature range cable fixed	-25 °C – 80 °C					
Temperature range cable moving	-5 °C – 80 °C					
Mechanical service life	-					
Weight (kg/piece)	0.150	0.300	0.565	0.155	0.305	0.570
Approvals	cULus					

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Action chart

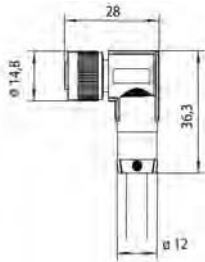


Actuator sensor interface · M12 – cables

Female M12 angled, with LEDs and PUR cable, open end self-locking screwed connection
c-track compatible



Dimensions



PIN assignment

468020, 468050, 468100

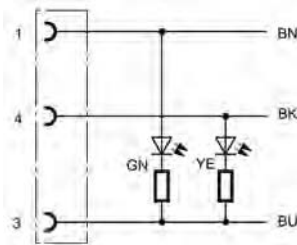


469020, 469050, 469100

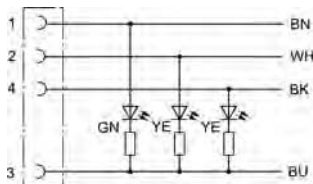


Circuit diagram

468020, 468050, 468100



469020, 469050, 469100



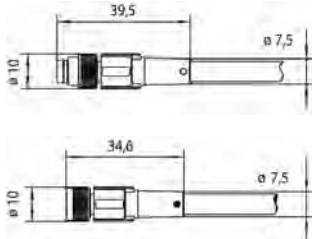
Description	Part-No.			Type			PU
3-pole							
Cable length	2.0	468020	KUW/LED A-M12 2M-PUR				10
	5.0	468050	KUW/LED A-M12 5M-PUR				10
	10.0	468100	KUW/LED A-M12 10M-PUR				10
4-pole							
Cable length	2.0	469020	KUW/LED P-M12 2M-PUR				10
	5.0	469050	KUW/LED P-M12 5M-PUR				10
	10.0	469100	KUW/LED P-M12 10M-PUR				10
Technical data							
				3-pole		4-pole	
Nominal voltage				AC/DC 24 V			
Nominal voltage range				DC 10 - 30 V			
Rated current				4 A			
Number of terminations				3		4	
Cable length	2.0	5.0	10.0	2.0	5.0	10.0	
Status Indication	Operating voltage: LED green, I/O: LED yellow						
Current Consumption per LED	<10 mA / LED						
Coding	A						
Shielding	-						
General							
Form	M12 × 1, female angled, with LEDs						
Rated insulation voltage (EN 50178)	32 V						
Test voltage	-						
Pollution degree	3						
Insulation resistance	>10 ⁹ Ω						
Contact resistance	<5 mΩ						
Class of flammability according to UL 94	V0						
Protection class	IP 67, in screwed condition						
Housing material	TPU black						
Contact material	CuSn, gold plated nickel						
Thread material	CuSn nickel plated						
Gasket	NBR						
Cable construction	3 × 0.34 mm ² (42 × 0.1)			4 × 0.34 mm ² (42 × 0.1)			
Cable jacket	PUR, RAL 9001 black						
Conductor insulation	PVC coloured						
Cable diameter	4.4 mm			4.7 mm			
Bending radius	15 x cable diameter						
Storage temperature range	-30 °C – 90 °C						
Temperature range connector	-25 °C – 90 °C						
Temperature range cable fixed	-25 °C – 80 °C						
Temperature range cable moving	-5 °C – 80 °C						
Mechanical service life	-						
Weight (kg/piece)	0.095	0.190	0.370	0.100	0.200	0.390	
Approvals	cULus						
Accessories							
				Article number		Type	PU
Cable markers 4×23mm				499988		LB M8/M12	5
Torque setting tool M12				490091		DM-SET M12	1

Actuator sensor interface · M8 / M8 – cables

Male M8 straight to female M8 straight with PUR cable
self-locking screwed connection
c-track compatible

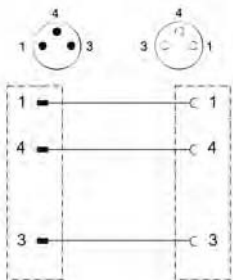


Dimensions

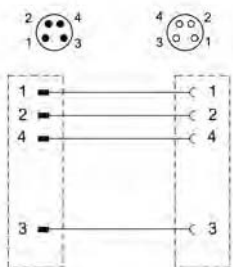


PIN assignment

487003, 487006, 487010, 487015,
487020, 487050



410003, 410006, 410010, 410015,
410020, 410050



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	487003	STG3-M8/KUG3-M8 0,3M-PUR	10
	0.6	487006	STG3-M8/KUG3-M8 0,6M-PUR	10
	1.0	487010	STG3-M8/KUG3-M8 1,0M-PUR	10
	1.5	487015	STG3-M8/KUG3-M8 1,5M-PUR	10
	2.0	487020	STG3-M8/KUG3-M8 2,0M-PUR	10
	5.0	487050	STG3-M8/KUG3-M8 5,0M-PUR	10
4-pole				
Cable length	0.3	410003	STG4-M8/KUG4-M8 0,3M-PUR	10
	0.6	410006	STG4-M8/KUG4-M8 0,6M-PUR	10
	1.0	410010	STG4-M8/KUG4-M8 1,0M-PUR	10
	1.5	410015	STG4-M8/KUG4-M8 1,5M-PUR	10
	2.0	410020	STG4-M8/KUG4-M8 2,0M-PUR	10
	5.0	410050	STG4-M8/KUG4-M8 5,0M-PUR	10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 60 V	max. 30 V
Rated current	3 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	-	
Shielding	-	

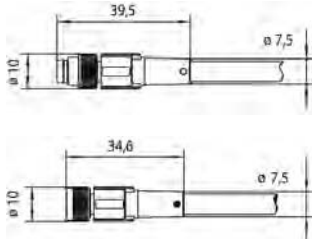
General			
Form	M8 × 1, male straight / M8 × 1, female straight		
Rated insulation voltage (EN 50178)	100 V		
Test voltage	1.5 kV		
Pollution degree	3		
Insulation resistance	>10 ⁹ Ω		
Contact resistance	<5 mΩ		
Class of flammability according to UL 94	V0		
Protection class	IP 67, in screwed condition		
Housing material	TPU black		
Contact material	CuSn, gold plated nickel		
Thread material	CuSn nickel plated		
Gasket	NBR		
Cable construction	3 × 0.25 mm ² (32 × 0.1) 4 × 0.25 mm ² (32 × 0.1)		
Cable jacket	PUR, RAL 9001 black		
Conductor insulation	PVC coloured		
Cable diameter	4.4 mm		
Bending radius	15 x cable diameter		
Storage temperature range	-30 °C – 90 °C		
Temperature range connector	-25 °C – 90 °C		
Temperature range cable fixed	-25 °C – 80 °C		
Temperature range cable moving	-5 °C – 80 °C		
Mechanical service life	-		
Weight (kg/piece)	0.02 0.03 0.04 0.05 0.06 0.16 0.05 0.06 0.08 0.10 0.13 0.31		
Approvals	cULus		
Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M8	490090	DM-SET M8	1

Actuator sensor interface · M8 / M8 – cables

Male M8 straight to female M8 straight with PUR cable and 360° shielding
self-locking screwed connection
c-track compatible

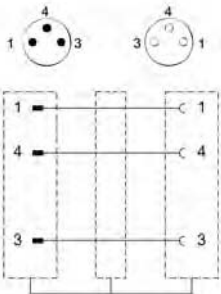


Dimensions

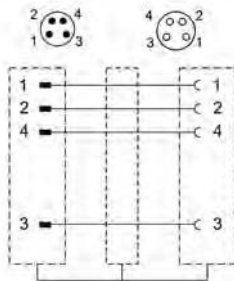


PIN assignment

457603, 457606, 457610, 457615,
457620, 457650



457703, 457706, 457710, 457715,
457720, 457750



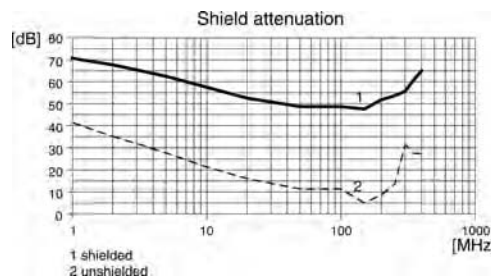
Description	Part-No.	Type	PU
3-pole			
Cable length	0.3	457603	STG3-M8/KUG3-M8 (C) 0,3M-PUR 10
	0.6	457606	STG3-M8/KUG3-M8 (C) 0,6M-PUR 10
	1.0	457610	STG3-M8/KUG3-M8 (C) 1,0M-PUR 10
	1.5	457615	STG3-M8/KUG3-M8 (C) 1,5M-PUR 10
	2.0	457620	STG3-M8/KUG3-M8 (C) 2,0M-PUR 10
	5.0	457650	STG3-M8/KUG3-M8 (C) 5,0M-PUR 10
4-pole			
Cable length	0.3	457703	STG4-M8/KUG4-M8 (C) 0,3M-PUR 10
	0.6	457706	STG4-M8/KUG4-M8 (C) 0,6M-PUR 10
	1.0	457710	STG4-M8/KUG4-M8 (C) 1,0M-PUR 10
	1.5	457715	STG4-M8/KUG4-M8 (C) 1,5M-PUR 10
	2.0	457720	STG4-M8/KUG4-M8 (C) 2,0M-PUR 10
	5.0	457750	STG4-M8/KUG4-M8 (C) 5,0M-PUR 10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 60 V	max. 30 V
Rated current	3 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	-	
Shielding	360°	

General	M8 × 1, male straight / M8 × 1, female straight											
Rated insulation voltage (EN 50178)	100 V											
Test voltage	1.5 kV											
Pollution degree	3											
Insulation resistance	>10 ⁹ Ω											
Contact resistance	<5 mΩ											
Class of flammability according to UL 94	V0											
Protection class	IP 67, in screwed condition											
Housing material	TPU black											
Contact material	CuSn, gold plated nickel											
Thread material	CuSn nickel plated											
Gasket	NBR											
Cable construction	3 × 0.25 mm ² (32 × 0.1)						4 × 0.25 mm ² (32 × 0.1)					
Cable jacket	PUR, RAL 9001 black											
Conductor insulation	PVC coloured											
Cable diameter	5.0 mm											
Bending radius	15 x cable diameter											
Storage temperature range	-30 °C – 90 °C											
Temperature range connector	-25 °C – 90 °C											
Temperature range cable fixed	-25 °C – 80 °C											
Temperature range cable moving	-5 °C – 80 °C											
Mechanical service life	-											
Weight (kg/piece)	0.02	0.03	0.04	0.05	0.06	0.16	0.05	0.06	0.08	0.10	0.13	0.31
Approvals	cULus											

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M8	490090	DM-SET M8	1

Action chart

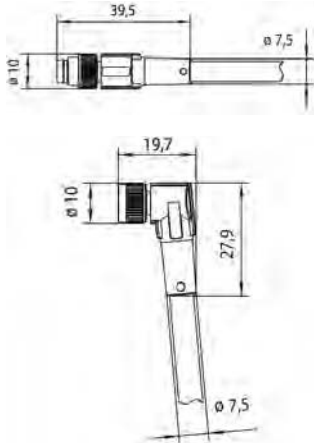


Actuator sensor interface · M8 / M8 – cables

Male M8 straight to female M8 angled with PUR cable
self-locking screwed connection
c-track compatible

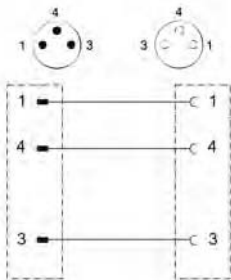


Dimensions

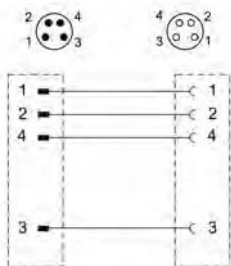


PIN assignment

488003, 488006, 488010, 488015,
488020, 488050



411003, 411006, 411010, 411015,
411020, 411050



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	488003	STG3-M8/KUW3-M8 0,3M-PUR	10
	0.6	488006	STG3-M8/KUW3-M8 0,6M-PUR	10
	1.0	488010	STG3-M8/KUW3-M8 1,0M-PUR	10
	1.5	488015	STG3-M8/KUW3-M8 1,5M-PUR	10
	2.0	488020	STG3-M8/KUW3-M8 2,0M-PUR	10
	5.0	488050	STG3-M8/KUW3-M8 5,0M-PUR	10
4-pole				
Cable length	0.3	411003	STG4-M8/KUW4-M8 0,3M-PUR	10
	0.6	411006	STG4-M8/KUW4-M8 0,6M-PUR	10
	1.0	411010	STG4-M8/KUW4-M8 1,0M-PUR	10
	1.5	411015	STG4-M8/KUW4-M8 1,5M-PUR	10
	2.0	411020	STG4-M8/KUW4-M8 2,0M-PUR	10
	5.0	411050	STG4-M8/KUW4-M8 5,0M-PUR	10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 60 V	max. 30 V
Rated current	3 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	-	
Shielding	-	

General	M8 × 1, male straight / M8 × 1, female angled
Form	M8 × 1, male straight / M8 × 1, female angled
Rated insulation voltage (EN 50178)	100 V
Test voltage	1.5 kV
Pollution degree	3
Insulation resistance	>10 ⁹ Ω
Contact resistance	<5 mΩ
Class of flammability according to UL 94	V0
Protection class	IP 67, in screwed condition
Housing material	TPU black
Contact material	CuSn, gold plated nickel
Thread material	CuSn nickel plated
Gasket	NBR
Cable construction	3 × 0.25 mm ² (32 × 0.1) 4 × 0.25 mm ² (32 × 0.1)
Cable jacket	PUR, RAL 9001 black
Conductor insulation	PVC coloured
Cable diameter	4.4 mm
Bending radius	15 x cable diameter
Storage temperature range	-30 °C – 90 °C
Temperature range connector	-25 °C – 90 °C
Temperature range cable fixed	-25 °C – 80 °C
Temperature range cable moving	-5 °C – 80 °C
Mechanical service life	-
Weight (kg/piece)	0.02 0.03 0.04 0.05 0.06 0.16 0.05 0.06 0.08 0.10 0.13 0.31
Approvals	cULus

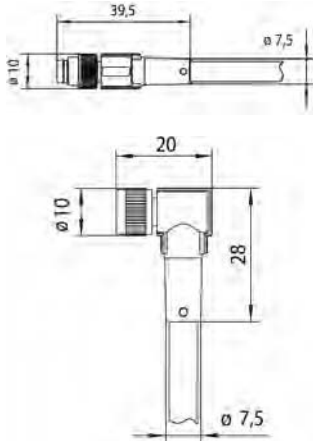
Accessories	Article number	Type	PU
Cable Markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M8	490090	DM-SET M8	1

Actuator sensor interface · M8 / M8 – cables

Male M8 straight to female M8 angled with PUR cable and 360° shielding
self-locking screwed connection
c-track compatible

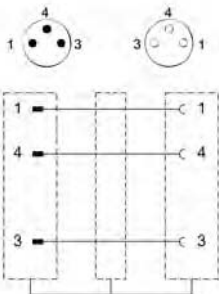


Dimensions

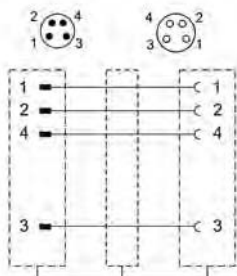


PIN assignment

457803, 457806, 457810, 457815,
457820, 457850



457903, 457906, 457910, 457915,
457920, 457950

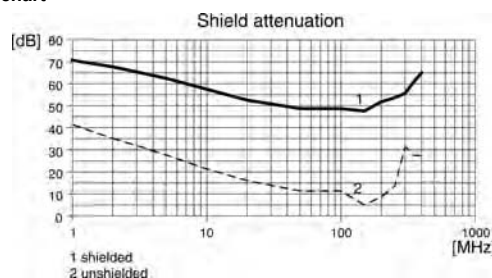


Description	Part-No.	Type	PU
3-pole			
Cable length	0.3	457803	STG3-M8/KUW3-M8 (C) 0,3M-PUR 10
	0.6	457806	STG3-M8/KUW3-M8 (C) 0,6M-PUR 10
	1.0	457810	STG3-M8/KUW3-M8 (C) 1,0M-PUR 10
	1.5	457815	STG3-M8/KUW3-M8 (C) 1,5M-PUR 10
	2.0	457820	STG3-M8/KUW3-M8 (C) 2,0M-PUR 10
	5.0	457850	STG3-M8/KUW3-M8 (C) 5,0M-PUR 10
4-pole			
Cable length	0.3	457903	STG4-M8/KUW4-M8 (C) 0,3M-PUR 10
	0.6	457906	STG4-M8/KUW4-M8 (C) 0,6M-PUR 10
	1.0	457910	STG4-M8/KUW4-M8 (C) 1,0M-PUR 10
	1.5	457915	STG4-M8/KUW4-M8 (C) 1,5M-PUR 10
	2.0	457920	STG4-M8/KUW4-M8 (C) 2,0M-PUR 10
	5.0	457950	STG4-M8/KUW4-M8 (C) 5,0M-PUR 10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 60 V	max. 30 V
Rated current	3 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	-	
Shielding	360°	

General	M8 × 1, male straight / M8 × 1, female angled											
Form	M8 × 1, male straight / M8 × 1, female angled											
Rated insulation voltage (EN 50178)	100 V											
Test voltage	1.5 kV											
Pollution degree	3											
Insulation resistance	>10 ⁹ Ω											
Contact resistance	<5 mΩ											
Class of flammability according to UL 94	V0											
Protection class	IP 67, in screwed condition											
Housing material	TPU black											
Contact material	CuSn, gold plated nickel											
Thread material	CuSn nickel plated											
Gasket	NBR											
Cable construction	3 × 0.25 mm ² (32 × 0.1)						4 × 0.25 mm ² (32 × 0.1)					
Cable jacket	PUR, RAL 9001 black											
Conductor insulation	PVC coloured											
Cable diameter	5.0 mm											
Bending radius	15 x cable diameter											
Storage temperature range	-30 °C – 90 °C											
Temperature range connector	-25 °C – 90 °C											
Temperature range cable fixed	-25 °C – 80 °C											
Temperature range cable moving	-5 °C – 80 °C											
Mechanical service life	-											
Weight (kg/piece)	0.02	0.03	0.04	0.05	0.06	0.16	0.05	0.06	0.08	0.10	0.13	0.31
Approvals	cULus											
Accessories	Article number	Type	PU									
Cable Markers 4×23mm	499988	LB M8/M12	5									
Torque setting tool M8	490090	DM-SET M8	1									

Action chart

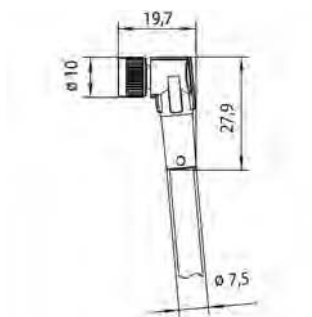
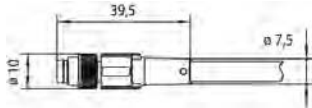


Actuator sensor interface · M8 / M8 – cables

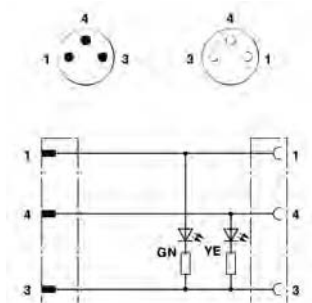
Male M8 straight to female 8 pin angled with LEDs and PUR cable
self-locking screwed connection
c-track compatible



Dimensions



PIN assignment



Description	Part-No.	Type	PU
3-pole			
Cable length	0.3	489003	STG3-M8/KUW3-M8 LED A 0,3M-PUR 10
	0.6	489006	STG3-M8/KUW3-M8 LED A 0,6M-PUR 10
	1.0	489010	STG3-M8/KUW3-M8 LED A 1,0M-PUR 10
	1.5	489015	STG3-M8/KUW3-M8 LED A 1,5M-PUR 10
	2.0	489020	STG3-M8/KUW3-M8 LED A 2,0M-PUR 10
	5.0	489050	STG3-M8/KUW3-M8 LED A 5,0M-PUR 10

Technical data		3-pole					
Nominal voltage		DC 24 V					
Nominal voltage range		DC 10 - 30 V					
Rated current		3 A					
Number of terminations		3					
Cable length	0.3	0.6	1.0	1.5	2.0	5.0	
Status Indication		-					
Current Consumption per LED		< 10 mA / LED					
Coding		-					
Shielding		-					

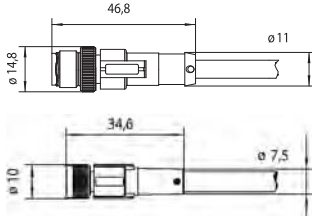
General		M8 × 1, male straight / M8 × 1, female angled with LEDs					
Form		M8 × 1, male straight / M8 × 1, female angled with LEDs					
Rated insulation voltage (EN 50178)		100 V					
Test voltage		1.5 kV					
Pollution degree		3					
Insulation resistance		>10 ⁹ Ω					
Contact resistance		<5 mΩ					
Class of flammability according to UL 94		V0					
Protection class		IP 67, in screwed condition					
Housing material		TPU black					
Contact material		CuSn, gold plated nickel					
Thread material		CuSn nickel plated					
Gasket		NBR					
Cable construction		3 × 0.25 mm ² (32 × 0.1)					
Cable jacket		PUR, RAL 9001 black					
Conductor insulation		PVC coloured					
Cable diameter		4.4 mm					
Bending radius		15 x cable diameter					
Storage temperature range		-30 °C – 90 °C					
Temperature range connector		-25 °C – 90 °C					
Temperature range cable fixed		-25 °C – 80 °C					
Temperature range cable moving		-5 °C – 80 °C					
Mechanical service life		-					
Weight (kg/piece)	0.02	0.03	0.04	0.05	0.06	0.16	
Approvals		cULus					
Accessories		Article number	Type			PU	
Cable Markers 4×23mm		499988	LB M8/M12			5	
Torque setting tool M8		490090	DM-SET M8			1	

Actuator sensor interface · M12 / M8 – cables

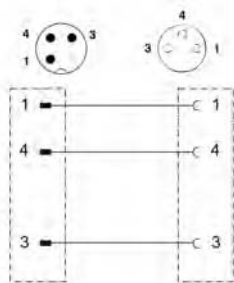
**Male M12 straight to female M8 straight with PUR cable
self-locking screwed connection
c-track compatible**



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	422003	STG3-M12/KUG3-M8 0,3M-PUR	10
	0.6	422006	STG3-M12/KUG3-M8 0,6M-PUR	10
	1.0	422010	STG3-M12/KUG3-M8 1,0M-PUR	10
	1.5	422015	STG3-M12/KUG3-M8 1,5M-PUR	10
	2.0	422020	STG3-M12/KUG3-M8 2,0M-PUR	10
	5.0	422050	STG3-M12/KUG3-M8 5,0M-PUR	10

Technical data		3-pole					
Nominal voltage		AC/DC 24 V					
Nominal voltage range		max. 60 V					
Rated current		3 A					
Number of terminations		3					
Cable length	0.3	0.6	1.0	1.5	2.0	5.0	
Status Indication		-					
Current Consumption per LED		-					
Coding		A (M12)					
Shielding		-					

General							
Form		M12 × 1, male straight / M8 × 1, female straight					
Rated insulation voltage (EN 50178)		100 V					
Test voltage		1.5 kV					
Pollution degree		3					
Insulation resistance		>10 ⁹ Ω					
Contact resistance		<5 mΩ					
Class of flammability according to UL 94		V0					
Protection class		IP 67, in screwed condition					
Housing material		TPU black					
Contact material		CuSn, gold plated nickel					
Thread material		CuSn nickel plated					
Gasket		NBR					
Cable construction		3 × 0.25 mm ² (32 × 0.1)					
Cable jacket		PUR, RAL 9001 black					
Conductor insulation		PVC coloured					
Cable diameter		4.4 mm					
Bending radius		cable diameter					
Storage temperature range		-30 °C – 90 °C					
Temperature range connector		-25 °C – 90 °C					
Temperature range cable fixed		-25 °C – 80 °C					
Temperature range cable moving		-5 °C – 80 °C					
Mechanical service life		-					
Weight (kg/piece)	0.02	0.03	0.04	0.05	0.06	0.16	

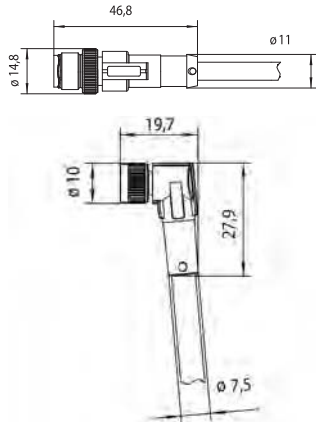
Approvals		cULus					
Accessories	Article number	Type				PU	
Cable markers 4×23mm	499988	LB M8/M12				5	
Torque setting tool M8	490090	DM-SET M8				1	
Torque setting tool M12	490091	DM-SET M12				1	

Actuator sensor interface · M12 / M8 – cables

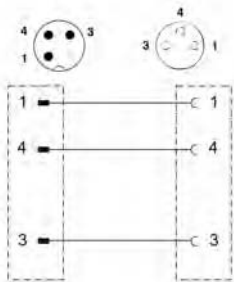
Male M12 straight to female 8 pin angled with PUR cable
self-locking screwed connection
c-track compatible



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	427003	STG3-M12/KUW3-M8 0,3M-PUR	10
	0.6	427006	STG3-M12/KUW3-M8 0,6M-PUR	10
	1.0	427010	STG3-M12/KUW3-M8 1,0M-PUR	10
	1.5	427015	STG3-M12/KUW3-M8 1,5M-PUR	10
	2.0	427020	STG3-M12/KUW3-M8 2,0M-PUR	10
	5.0	427050	STG3-M12/KUW3-M8 5,0M-PUR	10

Technical data		3-pole					
Nominal voltage		AC/DC 24 V					
Nominal voltage range		max. 60 V					
Rated current		3 A					
Number of terminations		3					
Cable length	0.3	0.6	1.0	1.5	2.0	5.0	
Status Indication		-					
Current Consumption per LED		-					
Coding		A (M12)					
Shielding		-					

General							
Form		M12 × 1, male straight / M8 × 1, female angled					
Rated insulation voltage (EN 50178)		100 V					
Test voltage		1.5 kV					
Pollution degree		3					
Insulation resistance		>10 ⁹ Ω					
Contact resistance		<5 mΩ					
Class of flammability according to UL 94		V0					
Protection class		IP 67, in screwed condition					
Housing material		TPU black					
Contact material		CuSn, gold plated nickel					
Thread material		CuSn nickel plated					
Gasket		NBR					
Cable construction		3 × 0.25 mm ² (32 × 0.1)					
Cable jacket		PUR, RAL 9001 black					
Conductor insulation		PVC coloured					
Cable diameter		4.4 mm					
Bending radius		15 x cable diameter					
Storage temperature range		-30 °C – 90 °C					
Temperature range connector		-25 °C – 90 °C					
Temperature range cable fixed		-25 °C – 80 °C					
Temperature range cable moving		-5 °C – 80 °C					
Mechanical service life		-					
Weight (kg/piece)	0.02	0.03	0.04	0.05	0.06	0.16	

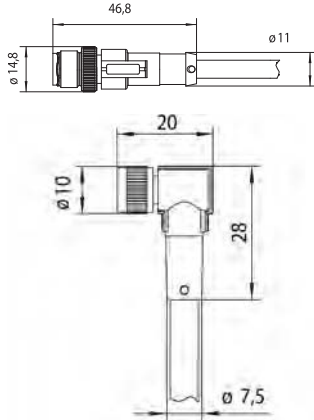
Approvals		cULus					
Accessories	Article number	Type	PU				
Cable markers 4×23mm	499988	LB M8/M12	5				
Torque setting tool M8	490090	DM-SET M8	1				
Torque setting tool M12	490091	DM-SET M12	1				

Actuator sensor interface · M12 / M8 – cables

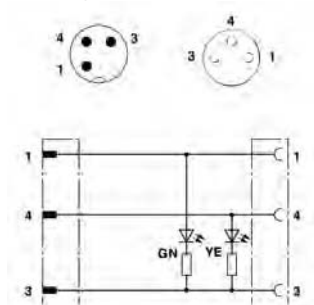
Male M12 straight to female 8 pin angled with LEDs and PUR cable
self-locking screwed connection
c-track compatible



Dimensions



PIN assignment



Description	Part-No.	Type	PU
3-pole			
Cable length	0.3	426003	STG3-M12/KUW3-M8 LED A 0,3M-PUR 10
	0.6	426006	STG3-M12/KUW3-M8 LED A 0,6M-PUR 10
	1.0	426010	STG3-M12/KUW3-M8 LED A 1,0M-PUR 10
	1.5	426015	STG3-M12/KUW3-M8 LED A 1,5M-PUR 10
	2.0	426020	STG3-M12/KUW3-M8 LED A 2,0M-PUR 10
	5.0	426050	STG3-M12/KUW3-M8 LED A 5,0M-PUR 10

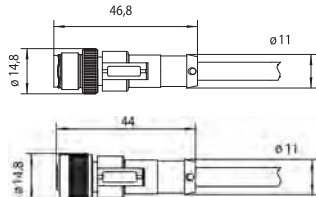
Technical data		3-pole				
Nominal voltage		DC 24 V				
Nominal voltage range		DC 10 – 30V				
Rated current		3 A				
Number of terminations		3				
Cable length	0.3 0.6 1.0 1.5 2.0 5.0					
Status Indication		Operating voltage: LED green, I/O: LED yellow				
Current Consumption per LED		<10 mA / LED				
Coding		A (M12)				
Shielding		–				
General						
Form		M12 × 1, male straight / M8 × 1, female angled with LEDs				
Rated insulation voltage (EN 50178)		32 V				
Test voltage		–				
Pollution degree		3				
Insulation resistance		>10 ⁹ Ω				
Contact resistance		<5 mΩ				
Class of flammability according to UL 94		V0				
Protection class		IP 67, in screwed condition				
Housing material		TPU black				
Contact material		CuSn, gold plated nickel				
Thread material		CuSn nickel plated				
Gasket		NBR				
Cable construction		3 × 0.25 mm ² (32 × 0.1)				
Cable jacket		PUR, RAL 9001 black				
Conductor insulation		PVC coloured				
Cable diameter		4.4 mm				
Bending radius		15 x cable diameter				
Storage temperature range		-30 °C – 90 °C				
Temperature range connector		-25 °C – 90 °C				
Temperature range cable fixed		-25 °C – 80 °C				
Temperature range cable moving		-5 °C – 80 °C				
Mechanical service life		–				
Weight (kg/piece)	0.02 0.03 0.04 0.05 0.06 0.16					
Approvals		cULus				
Accessories		Article number	Type	PU		
Cable markers 4×23mm		499988	LB M8/M12	5		
Torque setting tool M8		490090	DM-SET M8	1		
Torque setting tool M12		490091	DM-SET M12	1		

Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12, straight with PUR cable
self-locking screwed connection
c-track compatible

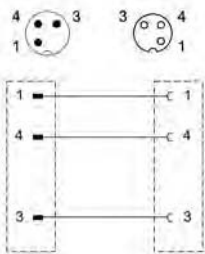


Dimensions

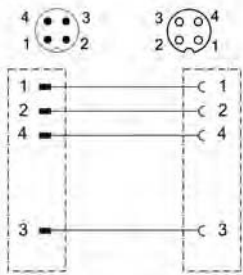


PIN assignment

428003, 428006, 428010, 428015,
428020, 428050



429003, 429006, 429010, 429015,
429020, 429050



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	428003	STG3-M12/KUG3-M12 0,3M-PUR	10
	0.6	428006	STG3-M12/KUG3-M12 0,6M-PUR	10
	1.0	428010	STG3-M12/KUG3-M12 1,0M-PUR	10
	1.5	428015	STG3-M12/KUG3-M12 1,5M-PUR	10
	2.0	428020	STG3-M12/KUG3-M12 2,0M-PUR	10
	5.0	428050	STG3-M12/KUG3-M12 5,0M-PUR	10
4-pole				
Cable length	0.3	429003	STG4-M12/KUG4-M12 0,3M-PUR	10
	0.6	429006	STG4-M12/KUG4-M12 0,6M-PUR	10
	1.0	429010	STG4-M12/KUG4-M12 1,0M-PUR	10
	1.5	429015	STG4-M12/KUG4-M12 1,5M-PUR	10
	2.0	429020	STG4-M12/KUG4-M12 2,0M-PUR	10
	5.0	429050	STG4-M12/KUG4-M12 5,0M-PUR	10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 250 V	
Rated current	4 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	A	
Shielding	-	

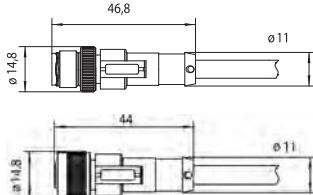
General	M12 × 1, male straight / M12 × 1, female straight											
Form	M12 × 1, male straight / M12 × 1, female straight											
Rated insulation voltage (EN 50178)	320 V											
Test voltage	2.5 kV											
Pollution degree	3											
Insulation resistance	>10 ⁹ Ω											
Contact resistance	<5 mΩ											
Class of flammability according to UL 94	V0											
Protection class	IP 67, in screwed condition											
Housing material	TPU black											
Contact material	CuSn, gold plated nickel											
Thread material	CuSn nickel plated											
Gasket	NBR											
Cable construction	3 × 0.34 mm ² (42 × 0.1)						4 × 0.34 mm ² (42 × 0.1)					
Cable jacket	PUR, RAL 9001 black											
Conductor insulation	PVC coloured											
Cable diameter	4.4 mm						4.7 mm					
Bending radius	15 x cable diameter											
Storage temperature range	-30 °C – 90 °C											
Temperature range connector	-25 °C – 90 °C											
Temperature range cable fixed	-25 °C – 80 °C											
Temperature range cable moving	-5 °C – 80 °C											
Mechanical service life	-											
Weight (kg/piece)	0.04	0.06	0.08	0.10	0.13	0.24	0.05	0.07	0.09	0.11	0.14	0.26
Approvals	cULus											
Accessories	Article number	Type	PU									
Cable markers 4×23mm	499988	LB M8/M12	5									
Torque setting tool M12	490091	DM-SET M12	1									

Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 straight with PUR cable
self-locking screwed connection
c-track compatible

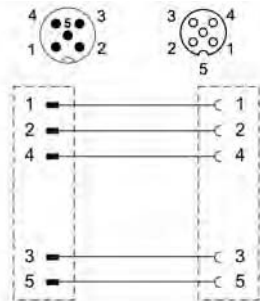


Dimensions

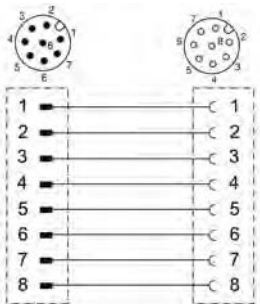


PIN assignment

442003, 442006, 442010, 442015,
442020, 442050



420003, 420006, 420010, 420015,
420020, 420050



Description	Part-No.	Type	PU	
5-pole				
Cable length	0.3	442003	STG5-M12/KUG5-M12 0,3M-PUR	10
	0.6	442006	STG5-M12/KUG5-M12 0,6M-PUR	10
	1.0	442010	STG5-M12/KUG5-M12 1,0M-PUR	10
	1.5	442015	STG5-M12/KUG5-M12 1,5M-PUR	10
	2.0	442020	STG5-M12/KUG5-M12 2,0M-PUR	10
	5.0	442050	STG5-M12/KUG5-M12 5,0M-PUR	10
8-pole				
Cable length	0.3	420003	STG8-M12/KUG8-M12 0,3M-PUR	10
	0.6	420006	STG8-M12/KUG8-M12 0,6M-PUR	10
	1.0	420010	STG8-M12/KUG8-M12 1,0M-PUR	10
	1.5	420015	STG8-M12/KUG8-M12 1,5M-PUR	10
	2.0	420020	STG8-M12/KUG8-M12 2,0M-PUR	10
	5.0	420050	STG8-M12/KUG8-M12 5,0M-PUR	10

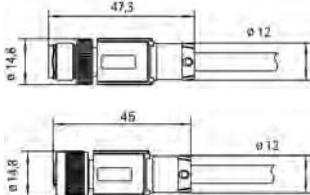
Technical data	5-pole					8-pole						
Nominal voltage	AC/DC 24 V											
Nominal voltage range	max. 30 V											
Rated current	4 A					2 A						
Number of terminations	5					8						
Cable length	0.3	0.6	1.0	1.5	2.0	5.0	0.3	0.6	1.0	1.5	2.0	5.0
Status Indication	-											
Current Consumption per LED	-											
Coding	A											
Shielding	-											
General												
Form	M12 × 1, male straight / M12 × 1, female straight											
Rated insulation voltage (EN 50178)	63 V					36 V						
Test voltage	1.5 kV											
Pollution degree	3											
Insulation resistance	>10 ⁹ Ω											
Contact resistance	<5 mΩ											
Class of flammability according to UL 94	V0											
Protection class	IP 67, in screwed condition											
Housing material	TPU black											
Contact material	CuSn, gold plated nickel											
Thread material	CuSn nickel plated											
Gasket	NBR											
Cable construction	5 × 0.34 mm ² (42 × 0.1)					8 × 0.25 mm ² (32 × 0.1)						
Cable jacket	PUR, RAL 9001 black											
Conductor insulation	PVC coloured											
Cable diameter	5.0 mm					5.9 mm						
Bending radius	15 x cable diameter											
Storage temperature range	-30 °C – 90 °C											
Temperature range connector	-25 °C – 90 °C											
Temperature range cable fixed	-25 °C – 80 °C											
Temperature range cable moving	-5 °C – 80 °C											
Mechanical service life	-											
Weight (kg/piece)	0.05	0.06	0.09	0.11	0.14	0.30	0.05	0.06	0.09	0.11	0.14	0.30
Approvals	cULus											
Accessories												
Cable markers 4×23mm	499988					Type					PU	
Torque setting tool M12	490091					DM-SET M12					1	

Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 straight with PUR cable and 360° shielding
self-locking screwed connection
c-track compatible

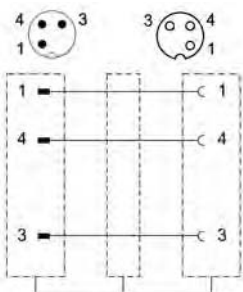


Dimensions

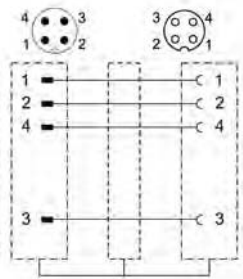


PIN assignment

457003, 457006, 457010, 457015,
457020, 457050



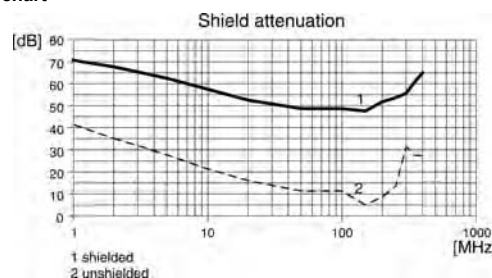
457103, 457106, 457110, 457115,
457120, 457150



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	457003	STG3-M12/KUG3-M12 (C) 0,3M-PUR	10
	0.6	457006	STG3-M12/KUG3-M12 (C) 0,6M-PUR	10
	1.0	457010	STG3-M12/KUG3-M12 (C) 1,0M-PUR	10
	1.5	457015	STG3-M12/KUG3-M12 (C) 1,5M-PUR	10
	2.0	457020	STG3-M12/KUG3-M12 (C) 2,0M-PUR	10
	5.0	457050	STG3-M12/KUG3-M12 (C) 5,0M-PUR	10
4-pole				
Cable length	0.3	457103	STG4-M12/KUG4-M12 (C) 0,3M-PUR	10
	0.6	457106	STG4-M12/KUG4-M12 (C) 0,6M-PUR	10
	1.0	457110	STG4-M12/KUG4-M12 (C) 1,0M-PUR	10
	1.5	457115	STG4-M12/KUG4-M12 (C) 1,5M-PUR	10
	2.0	457120	STG4-M12/KUG4-M12 (C) 2,0M-PUR	10
	5.0	457150	STG4-M12/KUG4-M12 (C) 5,0M-PUR	10

Technical data		3-pole					4-pole						
Nominal voltage		AC/DC 24 V											
Nominal voltage range		max. 250 V											
Rated current		4 A											
Number of terminations		3					4						
Cable length		0.3	0.6	1.0	1.5	2.0	5.0	0.3	0.6	1.0	1.5	2.0	5.0
Status Indication		-											
Current Consumption per LED		-											
Coding		A											
Shielding		360°											
General													
Form		M12 × 1, male straight / M12 × 1, female straight											
Rated insulation voltage (EN 50178)		320 V											
Test voltage		2.5 kV											
Pollution degree		3											
Insulation resistance		>10 ⁹ Ω											
Contact resistance		<5 mΩ											
Class of flammability according to UL 94		V0											
Protection class		IP 67, in screwed condition											
Housing material		TPU black											
Contact material		CuSn, gold plated nickel											
Thread material		CuSn nickel plated											
Gasket		NBR											
Cable construction		3 × 0.34 mm ² (42 × 0.1)					4 × 0.34 mm ² (42 × 0.1)						
Cable jacket		PUR, RAL 9001 black											
Conductor insulation		PVC coloured											
Cable diameter		5.9 mm											
Bending radius		15 x cable diameter											
Storage temperature range		-30 °C – 90 °C											
Temperature range connector		-25 °C – 90 °C											
Temperature range cable fixed		-25 °C – 80 °C											
Temperature range cable moving		-5 °C – 80 °C											
Mechanical service life		-											
Weight (kg/piece)		0.05	0.08	0.10	0.12	0.15	0.25	0.06	0.09	0.11	0.13	0.16	0.31
Approvals		cULus											
Accessories		Article number					Type					PU	
Cable markers 4×23mm		499988					LB M8/M12					5	
Torque setting tool M12		490091					DM-SET M12					1	

Action chart

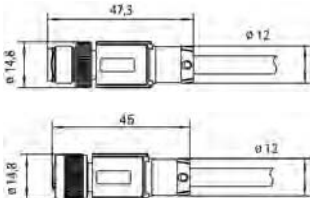


Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 straight with PUR cable and 360° shielding
self-locking screwed connection
c-track compatible

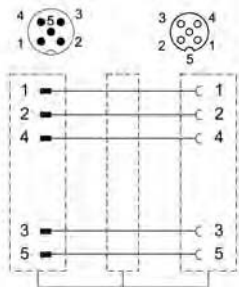


Dimensions

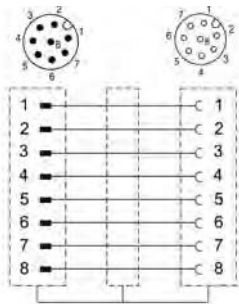


PIN assignment

457203, 457206, 457210, 457215,
457220, 457250



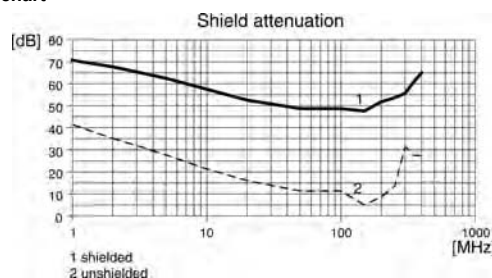
459103, 459106, 459110, 459115,
459120, 459150



Description	Part-No.	Type	PU
5-pole			
Cable length	0.3	457203	STG5-M12/KUG5-M12(C)0,3M PUR 10
	0.6	457206	STG5-M12/KUG5-M12(C)0,6M PUR 10
	1.0	457210	STG5-M12/KUG5-M12(C)1,0M PUR 10
	1.5	457215	STG5-M12/KUG5-M12(C)1,5M PUR 10
	2.0	457220	STG5-M12/KUG5-M12(C)2,0M PUR 10
	5.0	457250	STG5-M12/KUG5-M12(C)5,0M PUR 10
8-pole			
Cable length	0.3	459103	STG8-M12/KUG8-M12(C)0,3M PUR 10
	0.6	459106	STG8-M12/KUG8-M12(C)0,6M PUR 10
	1.0	459110	STG8-M12/KUG8-M12(C)1,0M PUR 10
	1.5	459115	STG8-M12/KUG8-M12(C)1,5M PUR 10
	2.0	459120	STG8-M12/KUG8-M12(C)2,0M PUR 10
	5.0	459150	STG8-M12/KUG8-M12(C)5,0M PUR 10

Technical data	5-pole	8-pole	
Nominal voltage	AC/DC 24 V		
Nominal voltage range	max. 30 V		
Rated current	4 A	2 A	
Number of terminations	5	8	
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0	
Status Indication	-		
Current Consumption per LED	-		
Coding	A		
Shielding	360°		
General			
Form	M12 × 1, male straight / M12 × 1, female straight		
Rated insulation voltage (EN 50178)	63 V	36 V	
Test voltage	1.5 kV		
Pollution degree	3		
Insulation resistance	>10 ⁹ Ω		
Contact resistance	<5 mΩ		
Class of flammability according to UL 94	V0		
Protection class	IP 67, in screwed condition		
Housing material	TPU black		
Contact material	CuSn, gold plated nickel		
Thread material	CuSn nickel plated		
Gasket	NBR		
Cable construction	5 × 0.34 mm ² (42 × 0.1)	8 × 0.25 mm ² (32 × 0.1)	
Cable jacket	PUR, RAL 9001 black		
Conductor insulation	PVC coloured		
Cable diameter	5.9 mm		
Bending radius	15 x cable diameter		
Storage temperature range	-30 °C – 90 °C		
Temperature range connector	-25 °C – 90 °C		
Temperature range cable fixed	-25 °C – 80 °C		
Temperature range cable moving	-5 °C – 80 °C		
Mechanical service life	-		
Weight (kg/piece)	0.06 0.08 0.11 0.13 0.16 0.32 0.05 0.07 0.09 0.11 0.14 0.30		
Approvals	cULus		
Accessories			
Cable markers 4×23mm	Article number	Type	PU
	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Action chart

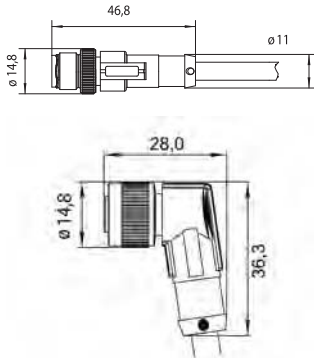


Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 angled with PUR cable
self-locking screwed connection
c-track compatible

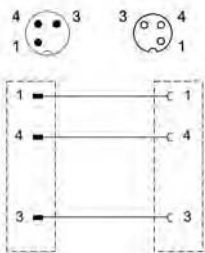


Dimensions

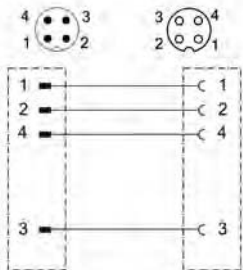


PIN assignment

467003, 467006, 467010, 467015,
467020, 467050



418003, 418006, 418010, 418015,
418020, 418050



Description	Part-No.	Type	PU	
3-pole				
Cable length	0.3	467003	STG3-M12/KUW3-M12 0,3M-PUR	10
	0.6	467006	STG3-M12/KUW3-M12 0,6M-PUR	10
	1.0	467010	STG3-M12/KUW3-M12 1,0M-PUR	10
	1.5	467015	STG3-M12/KUW3-M12 1,5M-PUR	10
	2.0	467020	STG3-M12/KUW3-M12 2,0M-PUR	10
	5.0	467050	STG3-M12/KUW3-M12 5,0M-PUR	10
4-pole				
Cable length	0.3	418003	STG4-M12/KUW4-M12 0,3M-PUR	10
	0.6	418006	STG4-M12/KUW4-M12 0,6M-PUR	10
	1.0	418010	STG4-M12/KUW4-M12 1,0M-PUR	10
	1.5	418015	STG4-M12/KUW4-M12 1,5M-PUR	10
	2.0	418020	STG4-M12/KUW4-M12 2,0M-PUR	10
	5.0	418050	STG4-M12/KUW4-M12 5,0M-PUR	10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 250 V	
Rated current	4 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	A	
Shielding	-	

General	M12 × 1, male straight / M12 × 1, female angled
Form	M12 × 1, male straight / M12 × 1, female angled
Rated insulation voltage (EN 50178)	320 V
Test voltage	2.5 kV
Pollution degree	3
Insulation resistance	>10 ⁹ Ω
Contact resistance	<5 mΩ
Class of flammability according to UL 94	V0
Protection class	IP 67, in screwed condition
Housing material	TPU black
Contact material	CuSn, gold plated nickel
Thread material	CuSn nickel plated
Gasket	NBR
Cable construction	3 × 0.34 mm ² (42 × 0.1) 4 × 0.34 mm ² (42 × 0.1)
Cable jacket	PUR, RAL 9001 black
Conductor insulation	PVC coloured
Cable diameter	4.4 mm 4.7 mm
Bending radius	15 x cable diameter
Storage temperature range	-30 °C – 90 °C
Temperature range connector	-25 °C – 90 °C
Temperature range cable fixed	-25 °C – 80 °C
Temperature range cable moving	-5 °C – 80 °C
Mechanical service life	-
Weight (kg/piece)	0.03 0.04 0.06 0.08 0.10 0.22 0.05 0.06 0.08 0.10 0.13 0.24
Approvals	cULus

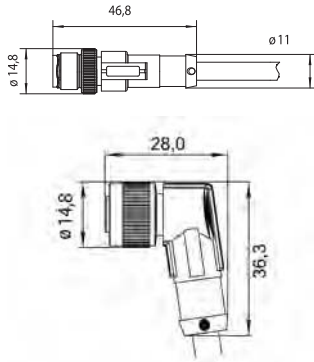
Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 angled with PUR cable
self-locking screwed connection
c-track compatible

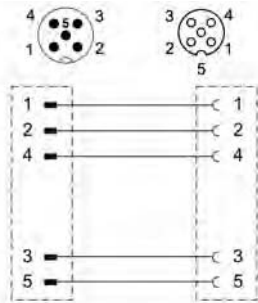


Dimensions

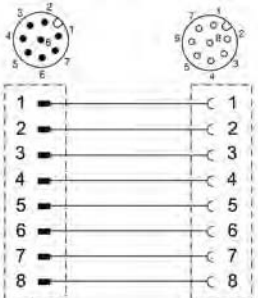


PIN assignment

440003, 440006, 440015, 440010,
440020, 440050



424003, 424006, 424010, 424015,
424020, 424050



Description	Part-No.	Type	PU	
5-pole				
Cable length	0.3	440003	STG5-M12/KUW5-M12 0,3M-PUR	10
	0.6	440006	STG5-M12/KUW5-M12 0,6M-PUR	10
	1.5	440015	STG5-M12/KUW5-M12 1,5M-PUR	10
	1.0	440010	STG5-M12/KUW5-M12 1,0M-PUR	10
	2.0	440020	STG5-M12/KUW5-M12 2,0M-PUR	10
	5.0	440050	STG5-M12/KUW5-M12 5,0M-PUR	10
8-pole				
Cable length	0.3	424003	STG8-M12/KUW8-M12 0,3M-PUR	10
	0.6	424006	STG8-M12/KUW8-M12 0,6M-PUR	10
	1.0	424010	STG8-M12/KUW8-M12 1,0M-PUR	10
	1.5	424015	STG8-M12/KUW8-M12 1,5M-PUR	10
	2.0	424020	STG8-M12/KUW8-M12 2,0M-PUR	10
	5.0	424050	STG8-M12/KUW8-M12 5,0M-PUR	10

Technical data	5-pole	8-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 30 V	
Rated current	max. 4 A per contact	max. 2 A per contact
Number of terminations	5	8
Cable length	0.3 0.6 1.5 1.0 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	A	
Shielding	-	
General		
Form	M12 × 1, male straight / M12 × 1, female straight	
Rated insulation voltage (EN 50178)	63 V	36 V
Test voltage	1.5 kV	
Pollution degree	3	
Insulation resistance	>10 ⁹ Ω	
Contact resistance	<5 mΩ	
Class of flammability according to UL 94	V0	
Protection class	IP 67, in screwed condition	
Housing material	TPU black	
Contact material	CuSn, gold plated nickel	
Thread material	CuSn nickel plated	
Gasket	NBR	
Cable construction	5 × 0.34 mm ² (42 × 0.1)	8 × 0.25 mm ² (32 × 0.1)
Cable jacket	PUR, RAL 9001 black	
Conductor insulation	PVC coloured	
Cable diameter	5.0 mm	5.9 mm
Bending radius	15 x cable diameter	
Storage temperature range	-30 °C – 90 °C	
Temperature range connector	-25 °C – 90 °C	
Temperature range cable fixed	-25 °C – 80 °C	
Temperature range cable moving	-5 °C – 80 °C	
Mechanical service life	-	
Weight (kg/piece)	0.05 0.06 0.13 0.08 0.11 0.22	0.05 0.06 0.08 0.11 0.13 0.22
Approvals	cULus	

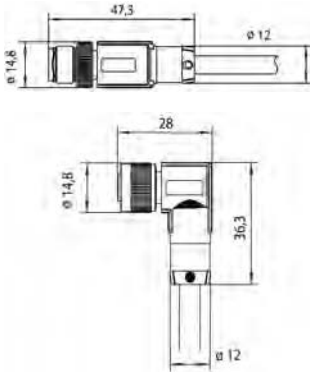
Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 angled with PUR cable and 360° shielding
self-locking screwed connection
c-track compatible

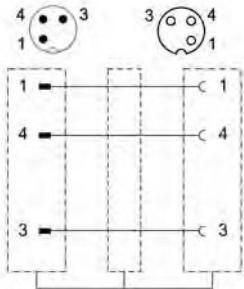


Dimensions

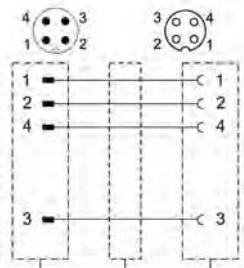


PIN assignment

457303, 457306, 457310, 457315,
457320, 457350



457403, 457406, 457410, 457415,
457420, 457450



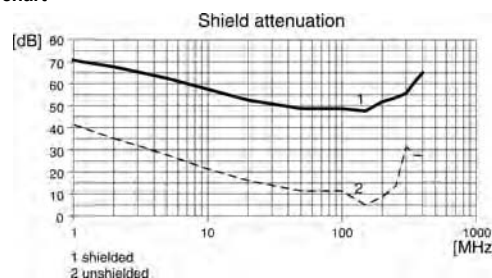
Description	Part-No.	Type	PU
3-pole			
Cable length	0.3	457303	STG3-M12/KUW3-M12 (C) 0,3M-PUR 10
	0.6	457306	STG3-M12/KUW3-M12 (C) 0,6M-PUR 10
	1.0	457310	STG3-M12/KUW3-M12 (C) 1,0M-PUR 10
	1.5	457315	STG3-M12/KUW3-M12 (C) 1,5M-PUR 10
	2.0	457320	STG3-M12/KUW3-M12 (C) 2,0M-PUR 10
	5.0	457350	STG3-M12/KUW3-M12 (C) 5,0M-PUR 10
4-pole			
Cable length	0.3	457403	STG4-M12/KUW4-M12 (C) 0,3M-PUR 10
	0.6	457406	STG4-M12/KUW4-M12 (C) 0,6M-PUR 10
	1.0	457410	STG4-M12/KUW4-M12 (C) 1,0M-PUR 10
	1.5	457415	STG4-M12/KUW4-M12 (C) 1,5M-PUR 10
	2.0	457420	STG4-M12/KUW4-M12 (C) 2,0M-PUR 10
	5.0	457450	STG4-M12/KUW4-M12 (C) 5,0M-PUR 10

Technical data	3-pole	4-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 250 V	
Rated current	4 A	
Number of terminations	3	4
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	A	
Shielding	360°	

General	M12 × 1, male straight / M12 × 1, female angled												
Form	M12 × 1, male straight / M12 × 1, female angled												
Rated insulation voltage (EN 50178)	320 V												
Test voltage	2.5 kV												
Pollution degree	3												
Insulation resistance	>10 ⁹ Ω												
Contact resistance	<5 mΩ												
Class of flammability according to UL 94	V0												
Protection class	IP 67, in screwed condition												
Housing material	TPU black												
Contact material	CuSn, gold plated nickel												
Thread material	CuSn nickel plated												
Gasket	NBR												
Cable construction	3 × 0.34 mm ² (42 × 0.1)						4 × 0.34 mm ² (42 × 0.1)						
Cable jacket	PUR, RAL 9001 black												
Conductor insulation	PVC coloured												
Cable diameter	5.9 mm												
Bending radius	15 x cable diameter												
Storage temperature range	-30 °C – 90 °C												
Temperature range connector	-25 °C – 90 °C												
Temperature range cable fixed	-25 °C – 80 °C												
Temperature range cable moving	-5 °C – 80 °C												
Mechanical service life	-												
Weight (kg/piece)	0.06	0.08	0.10	0.12	0.15	0.25	0.06	0.09	0.11	0.12	0.16	0.31	
Approvals	cULus												

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Action chart

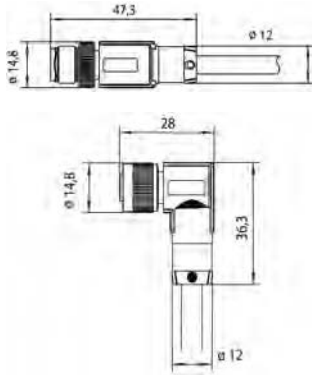


Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 angled with PUR cable and 360° shielding
self-locking screwed connection
c-track compatible

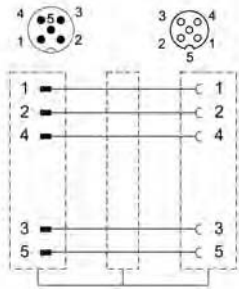


Dimensions

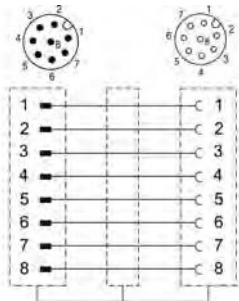


PIN assignment

457503, 457506, 457510, 457515,
457520, 457550



459203, 459206, 459210, 459215,
459220, 459250



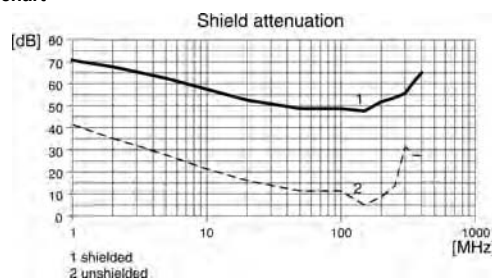
Description	Part-No.	Type	PU
5-pole			
Cable length	0.3	457503	STG5-M12/KUW5-M12 (C) 0,3M-PUR 10
	0.6	457506	STG5-M12/KUW5-M12 (C) 0,6M-PUR 10
	1.0	457510	STG5-M12/KUW5-M12 (C) 1,0M-PUR 10
	1.5	457515	STG5-M12/KUW5-M12 (C) 1,5M-PUR 10
	2.0	457520	STG5-M12/KUW5-M12 (C) 2,0M-PUR 10
	5.0	457550	STG5-M12/KUW5-M12 (C) 5,0M-PUR 10
8-pole			
Cable length	0.3	459203	STG8-M12/KUW8-M12 (C) 0,3M-PUR 10
	0.6	459206	STG8-M12/KUW8-M12 (C) 0,6M-PUR 10
	1.0	459210	STG8-M12/KUW8-M12 (C) 1,0M-PUR 10
	1.5	459215	STG8-M12/KUW8-M12 (C) 1,5M-PUR 10
	2.0	459220	STG8-M12/KUW8-M12 (C) 2,0M-PUR 10
	5.0	459250	STG8-M12/KUW8-M12 (C) 5,0M-PUR 10

Technical data	5-pole	8-pole
Nominal voltage	AC/DC 24 V	
Nominal voltage range	max. 30 V	
Rated current	4 A	2 A
Number of terminations	5	8
Cable length	0.3 0.6 1.0 1.5 2.0 5.0	0.3 0.6 1.0 1.5 2.0 5.0
Status Indication	-	
Current Consumption per LED	-	
Coding	A	
Shielding	360°	

General	
Form	M12 × 1, male straight / M12 × 1, female straight
Rated insulation voltage (EN 50178)	63 V
Test voltage	1.5 kV
Pollution degree	3
Insulation resistance	>10 ⁹ Ω
Contact resistance	<5 mΩ
Class of flammability according to UL 94	V0
Protection class	IP 67, in screwed condition
Housing material	TPU black
Contact material	CuSn, gold plated nickel
Thread material	CuSn nickel plated
Gasket	NBR
Cable construction	5 × 0.34 mm ² (42 × 0.1) 8 × 0.25 mm ² (32 × 0.1)
Cable jacket	PUR, RAL 9001 black
Conductor insulation	PVC coloured
Cable diameter	5.9 mm
Bending radius	15 x cable diameter
Storage temperature range	-30 °C – 90 °C
Temperature range connector	-25 °C – 90 °C
Temperature range cable fixed	-25 °C – 80 °C
Temperature range cable moving	-5 °C – 80 °C
Mechanical service life	-
Weight (kg/piece)	0.06 0.08 0.11 0.13 0.17 0.33 0.05 0.06 0.08 0.11 0.13 0.22
Approvals	cULus

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Action chart

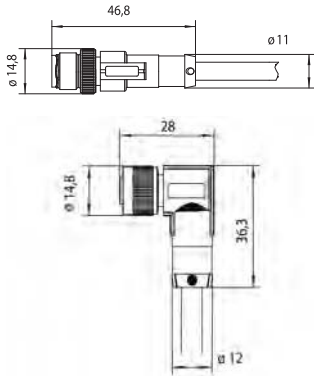


Actuator sensor interface · M12 / M12 – cables

Male M12 straight to female M12 angled with LEDs and PUR cable
self-locking screwed connection
c-track compatible

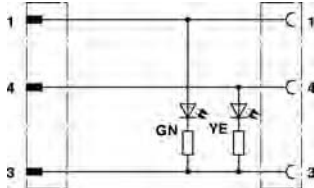


Dimensions

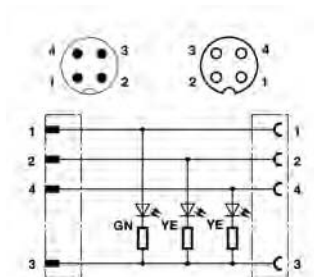


PIN assignment

430003, 430006, 430010, 430015,
430020, 430050, 431003



431006, 431010, 431015, 431020,
431050



Description	Part-No.	Type	PU
3-pole			
Cable length	0.3	430003	STG3-M12/KUW3-M12 LED A 0,3M-PUR 10
	0.6	430006	STG3-M12/KUW3-M12 LED A 0,6M-PUR 10
	1.0	430010	STG3-M12/KUW3-M12 LED A 1,0M-PUR 10
	1.5	430015	STG3-M12/KUW3-M12 LED A 1,5M-PUR 10
	2.0	430020	STG3-M12/KUW3-M12 LED A 2,0M-PUR 10
	5.0	430050	STG3-M12/KUW3-M12 LED A 5,0M-PUR 10
4-pole			
Cable length	0.3	431003	STG4-M12/KUW4-M12 LED P 0,3M-PUR 10
	0.6	431006	STG4-M12/KUW4-M12 LED P 0,6M-PUR 10
	1.0	431010	STG4-M12/KUW4-M12 LED P 1,0M-PUR 10
	1.5	431015	STG4-M12/KUW4-M12 LED P 1,5M-PUR 10
	2.0	431020	STG4-M12/KUW4-M12 LED P 2,0M-PUR 10
	5.0	431050	STG4-M12/KUW4-M12 LED P 5,0M-PUR 10

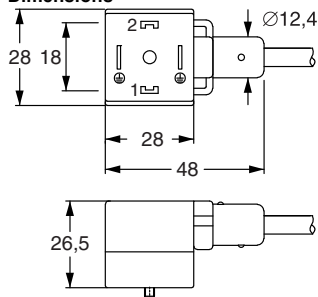
Technical data	3-pole				4-pole								
Nominal voltage	DC 24 V												
Nominal voltage range	DC 10 - 30 V												
Rated current	4 A												
Number of terminations	3				4								
Cable length	0.3	0.6	1.0	1.5	2.0	5.0	0.3	0.6	1.0	1.5	2.0	5.0	
Status Indication	Operating voltage: LED green, I/O: LED yellow												
Current Consumption per LED	<10 mA												
Coding	A												
Shielding	-												
General													
Form	M12 × 1, male straight / M12 × 1, female angled with LEDs												
Rated insulation voltage (EN 50178)	32 V												
Test voltage	-												
Pollution degree	3												
Insulation resistance	>10 ⁹ Ω												
Contact resistance	<5 mΩ												
Class of flammability according to UL 94	V0												
Protection class	IP 67, in screwed condition												
Housing material	TPU black												
Contact material	CuSn, gold plated nickel												
Thread material	CuSn nickel plated												
Gasket	NBR												
Cable construction	3 × 0.34 mm ² (42 × 0.1)				4 × 0.34 mm ² (42 × 0.1)								
Cable jacket	PUR, RAL 9001 black												
Conductor insulation	PVC coloured												
Cable diameter	4.4 mm								4.7 mm				
Bending radius	15 x cable diameter												
Storage temperature range	-30 °C – 90 °C												
Temperature range connector	-25 °C – 90 °C												
Temperature range cable fixed	-25 °C – 80 °C												
Temperature range cable moving	-5 °C – 80 °C												
Mechanical service life	-												
Weight (kg/piece)	0.03	0.04	0.06	0.08	0.10	0.22	0.05	0.06	0.08	0.10	0.13	0.24	
Approvals	cULus												
Accessories													
Cable markers 4×23mm	499988				Type				LB M8/M12				PU
Torque setting tool M12	490091				Type				DM-SET M12				1

Actuator sensor interface - M12 / valve suppressor

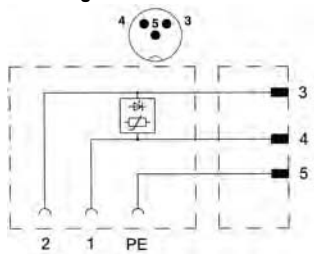
Male M12 straight to valve connector form A self-locking screwed connection c-track compatible



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Design A + varistor				
Cable length	0.3	435003	STG3 M12/LV-A 0,3m PUR	10
	0.6	435006	STG3 M12/A	10
	1.0	435010	STG3 M12/LV-A 1,0m PUR	10
	1.5	435015	STG3 M12/LV-A 1,5m PUR	10
	2.0	435020	STG3 M12/LV-A 2,0m PUR	10

Technical data		Design A + varistor			
Nominal voltage		AC/DC 24 V			
Nominal voltage range		max. 30 V			
Rated current		4 A			
Rated frequency		50–60 Hz			
Protection device		Varistor + LED			
Number of terminations		3			
Cable length	0.3	0.6	1.0	1.5	2.0
Status Indication		LED yellow			
Current Consumption per LED		4mA / LED			
Shut-off points		≥ 52V			
Holding Capacity		≤ 100VA			

General					
Form		M12×1, male straight / Form A, contact clearance 18 mm, 0°			
Rated insulation voltage (EN 50178)		32 V			
Test voltage		–			
Pollution degree		3			
Insulation resistance		>10 ⁹ Ω			
Contact resistance		> 5mΩ			
Class of flammability according to UL 94		V0			
Protection class		IP 67, in screwed condition			
Housing material		TPU black / transparent			
Contact material		CuSn, gold plated nickel			
Thread material		CuSn nickel plated			
Gasket		–			
Cable construction		3 × 0.5 mm ²			
Cable jacket		PUR, RAL 9001 black			
Conductor insulation		–			
Cable diameter		5.5 mm			
Bending radius		15 x cable diameter			
Storage temperature range		-30 °C – 90 °C			
Temperature range connector		-25 °C – 90 °C			
Temperature range cable fixed		-25 °C – 80 °C			
Temperature range cable moving		-5 °C – 70 °C			
Mechanical service life		–			
Weight (kg/piece)	0.054	0.066	0.084	0.108	0.126
Standards	EN 175301-803				
Approvals	–				

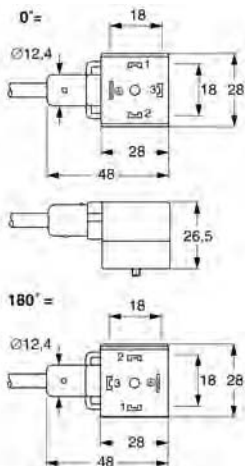
Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Actuator sensor interface · M12 / valve suppressor

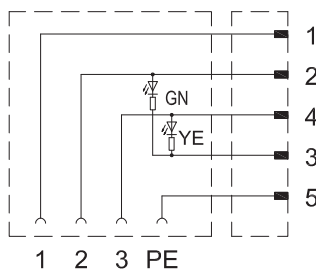
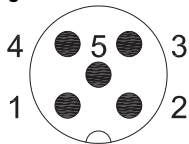
Male M12 straight to valve connector form A for pressure switch
self-locking screwed connection
c-track compatible



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Design A for Pressure switch				
Cable length	0.3	445003	STG5 M12/LDS-A 0° 0,3m PUR	10
	0.6	445006	STG5 M12/LDS-A 0° 0,6m PUR	10
	1.0	445010	STG5 M12/LDS-A 0° 1,0m PUR	10
	1.5	445015	STG5 M12/LDS-A 0° 1,5m PUR	10
	2.0	445020	STG5 M12/LDS-A 0° 2,0m PUR	10

Technical data		Design A for Pressure switch			
Nominal voltage		DC 24 V			
Nominal voltage range		DC 10 V – 30 V			
Rated current		4 A			
Rated frequency		–			
Protection device		–			
Number of terminations		5			
Cable length	0.3	0.6	1.0	1.5	2.0
Status Indication		LED yellow/green			
Current Consumption per LED		4mA / LED			
Shut-off points		–			
Holding Capacity		–			

General					
Form	M12×1, male straight / Form A, contact clearance 18 mm, 0°				
Rated insulation voltage (EN 50178)	32 V				
Test voltage	–				
Pollution degree	3				
Insulation resistance	>10 ⁹ Ω				
Contact resistance	> 5mΩ				
Class of flammability according to UL 94	V0				
Protection class	IP 67, in screwed condition				
Housing material	TPU black / transparent				
Contact material	CuSn, gold plated nickel				
Thread material	CuSn nickel plated				
Gasket	–				
Cable construction	5 × 0.5 mm ²				
Cable jacket	PUR, RAL 9001 black				
Conductor insulation	–				
Cable diameter	6.0 mm				
Bending radius	15 x cable diameter				
Storage temperature range	-30 °C – 90 °C				
Temperature range connector	-25 °C – 90 °C				
Temperature range cable fixed	-25 °C – 80 °C				
Temperature range cable moving	-5 °C – 70 °C				
Mechanical service life	–				
Weight (kg/piece)	0.064	0.078	0.096	0.119	0.142
Standards	EN 175301-803				
Approvals	–				

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

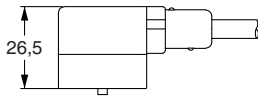
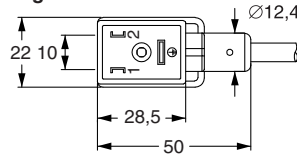
Actuator sensor interface - M12 / valve suppressor

Male M12 straight to valve suppressor form B / form BI self-locking screwed connection c-track compatible

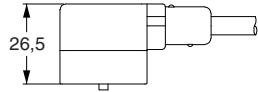
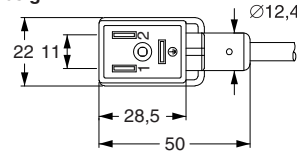


Dimensions

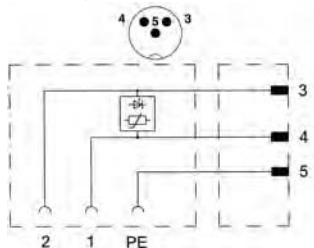
Design B



Design BI



PIN assignment



Description	Part-No.	Type	PU	
Design B + varistor				
Cable length	0.3	436003	STG3 M12/LV-B 0° 0,3m PUR	10
	0.6	436006	STG3 M12/LV-B 0° 0,6m PUR	10
	1.0	436010	STG3 M12/LV-B 0° 1,0m PUR	10
	1.5	436015	STG3 M12/LV-B 0° 1,5m PUR	10
	2.0	436020	STG3 M12/LV-B 0° 2,0m PUR	10
Design BI + varistor				
Cable length	0.3	439003	STG3 M12/LV-BI 0° 0,3m PUR	10
	0.6	439006	STG3 M12/LV-BI 0° 0,6m PUR	10
	1.0	439010	STG3 M12/LV-BI 0° 1,0m PUR	10
	1.5	439015	STG3 M12/LV-BI 0° 1,5m PUR	10
	2.0	439020	STG3 M12/LV-BI 0° 2,0m PUR	10

Technical data	Design B + varistor					Design BI + varistor				
Nominal voltage						AC/DC 24 V				
Nominal voltage range						max. 30 V				
Rated current						4 A				
Rated frequency						50–60 Hz				
Protection device						Varistor + LED				
Number of terminations						3				
Cable length	0.3	0.6	1.0	1.5	2.0	0.3	0.6	1.0	1.5	2.0
Status Indication						LED yellow				
Current Consumption per LED						4mA / LED				
Shut-off points						≥ 52V				
Holding Capacity						≤ 100VA				

General	M12×1, male straight / Form B					M12×1, male straight / Form BI				
Form	M12×1, male straight / Form B					M12×1, male straight / Form BI				
Rated insulation voltage (EN 50178)						32 V				
Test voltage						-				
Pollution degree						3				
Insulation resistance						>10 ⁹ Ω				
Contact resistance						> 5mΩ				
Class of flammability according to UL 94						V0				
Protection class						IP 67, in screwed condition				
Housing material						TPU black / transparent				
Contact material						CuSn, gold plated nickel				
Thread material						CuSn nickel plated				
Gasket						-				
Cable construction						3 × 0.5 mm ²				
Cable jacket						PUR, RAL 9001 black				
Conductor insulation						-				
Cable diameter						5.5 mm				
Bending radius						15 x cable diameter				
Storage temperature range						-30 °C – 90 °C				
Temperature range connector						-25 °C – 90 °C				
Temperature range cable fixed						-25 °C – 80 °C				
Temperature range cable moving						-5 °C – 70 °C				
Mechanical service life						-				
Weight (kg/piece)	0.064	0.078	0.096	0.119	0.142	0.064	0.078	0.096	0.119	0.142
Standards						EN 175301-803				
Approvals						-				

Accessories	Article number	Type	PU
Cable markers 4×23mm	499988	LB M8/M12	5
Torque setting tool M12	490091	DM-SET M12	1

Actuator sensor interface · M12 / valve suppressor

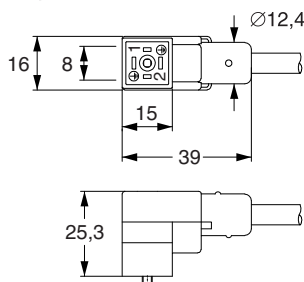
Male M12 straight to valve suppressor form C / form CI self-locking screwed connection c-track compatible



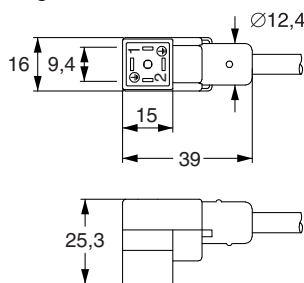
Description	Part-No.	Type	PU	
Design C + varistor				
Cable length	0.3	438003	STG3 M12/LV-C 0,3m PUR	10
	0.6	438006	STG3 M12/LV-C 0,6m PUR	10
	1.0	438010	STG3 M12/LV-C 1,0m PUR	10
	1.5	438015	STG3 M12/LV-C 1,5m PUR	10
	2.0	438020	STG3 M12/LV-C 2,0m PUR	10
Design CI + varistor				
Cable length	0.3	441003	STG3 M12/LV-CI 0,3m PUR	10
	0.6	441006	STG3 M12/LV-CI 0,6m PUR	10
	1.0	441010	STG3 M12/LV-CI 1,0m PUR	10
	1.5	441015	STG3 M12/LV-CI 1,5m PUR	10
	2.0	441020	STG3 M12/LV-CI 2,0m PUR	10

Technical data	Design C + varistor					Design CI + varistor				
Nominal voltage	AC/DC 24 V									
Nominal voltage range	10 – 30 V									
Rated current	3 A									
Rated frequency	50–60 Hz									
Protection device	Varistor + LED									
Number of terminations	3									
Cable length	0.3	0.6	1.0	1.5	2.0	0.3	0.6	1.0	1.5	2.0
Status Indication	LED yellow									
Current Consumption per LED	4mA / LED									
Shut-off points	≥ 52V									
Holding Capacity	≤ 100VA									

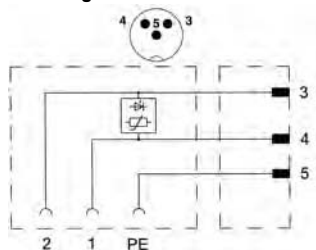
Dimensions Design C



Design CI



PIN assignment



General	M12×1, male straight / Form C					M12×1, male straight / Form CI				
Rated insulation voltage (EN 50178)	32 V									
Test voltage	–									
Pollution degree	3									
Insulation resistance	>10 ⁹ Ω									
Contact resistance	> 5mΩ									
Class of flammability according to UL 94	V0									
Protection class	IP 67, in screwed condition									
Housing material	TPU black / transparent									
Contact material	CuSn, gold plated nickel									
Thread material	CuSn nickel plated									
Gasket	–									
Cable construction	3 × 0.5 mm ²									
Cable jacket	PUR, RAL 9001 black									
Conductor insulation	–									
Cable diameter	5.5 mm									
Bending radius	15 x cable diameter									
Storage temperature range	-30 °C – 90 °C									
Temperature range connector	-25 °C – 90 °C									
Temperature range cable fixed	-25 °C – 80 °C									
Temperature range cable moving	-5 °C – 70 °C									
Mechanical service life	–									
Weight (kg/piece)	0.064	0.078	0.096	0.119	0.142	0.064	0.078	0.096	0.119	0.142
Standards	EN 175301-803									
Approvals	–									
Accessories	Article number	Type	PU							
Cable markers 4×23mm	499988	LB M8/M12	200							
Torque setting tool M12	490091	DM-SET M12	1							
Cable markers 4×11mm	681313	BZT 0411	100							