

100 Series



S Series

100 Series

VP Series

MCS Series

MC Series

M Series

MOD Series

- Operating voltage up to 100 kVDC
- Operating current up to 80 Amps
- Advanced contact technology
- Oil tight receptacles available
- High performance insulation materials PTFE

General characteristics and technical data Series 100

100 Series

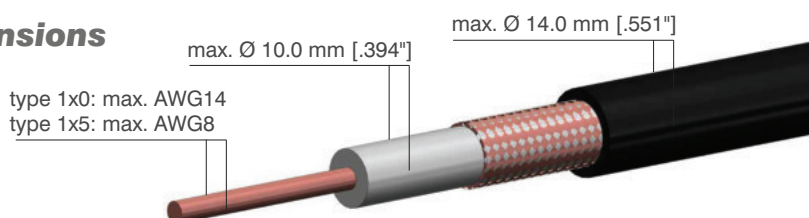
Housing	
Locking system	threaded coupling
Mounting type (panel mount connector)	round flange
Housing material	brass (CuZn)
Surface plating	nickel (Ni)
Protection class (mated connector)	IP67
Operating temperature	-30°C to +80°C

Contacts 2.5 mm (connector types SB1x0)	
Termination method	solder (male contact), solder / screw (female contact)
Rated current	30 A
Max. operating current	40 A
Pulse current	3000 A
Contact resistance	300 $\mu\Omega$
Contact diameter	2.5 mm [.173"]
Contact diameter	AWG 14 / 2.5 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	5.5 N / 4.0 N
Mating cycles	100000
Rated temperature	+120°C

Contacts 5 mm (connector types SB1x5)	
Termination method	solder (male contact), solder / screw (female contact)
Rated current	80 A
Max. operating current	110 A
Pulse current	10000 A
Contact resistance	150 $\mu\Omega$
Contact diameter	5 mm [.197"]
Max. wire size	AWG 8 / 10 mm ²
Contact material	brass (CuZn)
Contact plating	silver (Ag)
Insertion / Withdrawal force	15 N / 10 N
Mating cycles	100000
Rated temperature	+120°C

Insulation inserts	
Number of contacts	1
Insulation material	PTFE
CTI value	600
Flammability class PTFE	UL94 V-0
Operating temperature PTFE	-50°C to +200°C
Insulating material group PTFE / POM	I (DIN IEC 60664)

Suitable cable dimensions



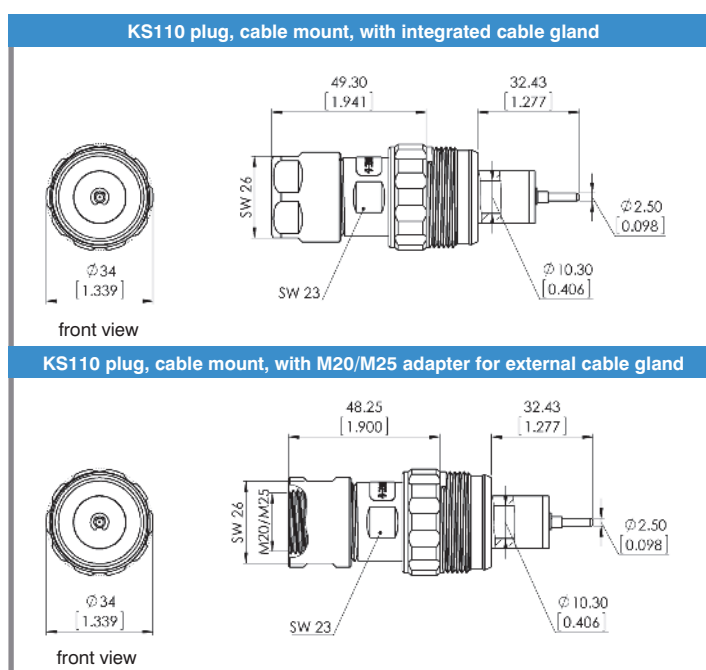
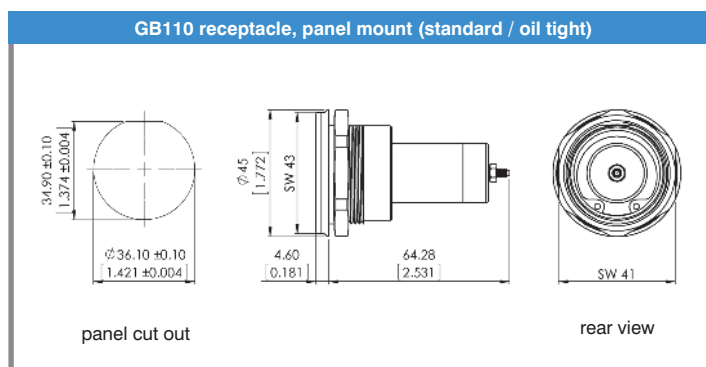


GB110 receptacle,
panel mount



KS110 plug,
cable mount

Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables ϕ 6.5 - 8 mm [.256" - .315"]	clamping range for cables ϕ 8 - 9.5 mm [.315" - .374"]	clamping range for cables ϕ 9.5 - 11 mm [.374" - .433"]	clamping range for cables ϕ 11 - 12.5 mm [.433" - .492"]	clamping range for cables ϕ 12.5 - 14 mm [.492" - .551"]	oil tight version
7200101	KS110/6.5-8 PTFE	•		•					
7200100	KS110/8-9.5 PTFE	•			•				
7200102	KS110/9.5-11 PTFE	•				•			
7200104	KS110/11-12.5 PTFE	•					•		
7200103	KS110/12.5-14 PTFE	•						•	
7200105	KS110/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200106	KS110/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200107	GB110 PTFE		•						
7200108	GB110/Ö PTFE		•						•

*KV = screwed cable gland

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GB115 receptacle,
panel mount



KS115 plug,
cable mount

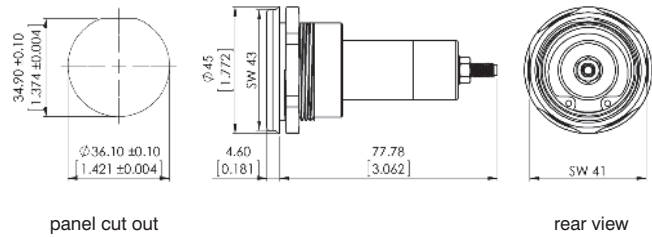
Electrical values

Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A

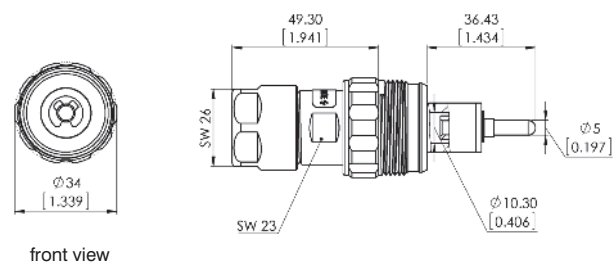
Characteristics

Contact size	5 mm [.197"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

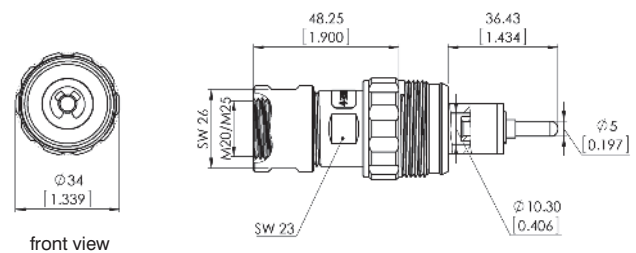
GB115 receptacle, panel mount (standard / oil tight)



KS115 plug, cable mount, with integrated cable gland



KS115 plug, cable mount, with M20/M25 adapter for external cable gland



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables $\varnothing$ 6.5 - 8 mm [.256" - .315"]	clamping range for cables $\varnothing$ 8 - 9.5 mm [.315" - .374"]	clamping range for cables $\varnothing$ 9.5 - 11 mm [.374" - .433"]	clamping range for cables $\varnothing$ 11 - 12.5 mm [.433" - .492"]	clamping range for cables $\varnothing$ 12.5 - 14 mm [.492" - .551"]	oil tight version
7200151	KS115/6.5-8 PTFE	•		•					
7200150	KS115/8-9.5 PTFE	•			•				
7200152	KS115/9.5-11 PTFE	•				•			
7200154	KS115/11-12.5 PTFE	•					•		
7200153	KS115/12.5-14 PTFE	•						•	
7200155	KS115/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200156	KS115/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200157	GB115 PTFE		•						
7200158	GB115/Ö PTFE		•						•

*KV = screwed cable gland



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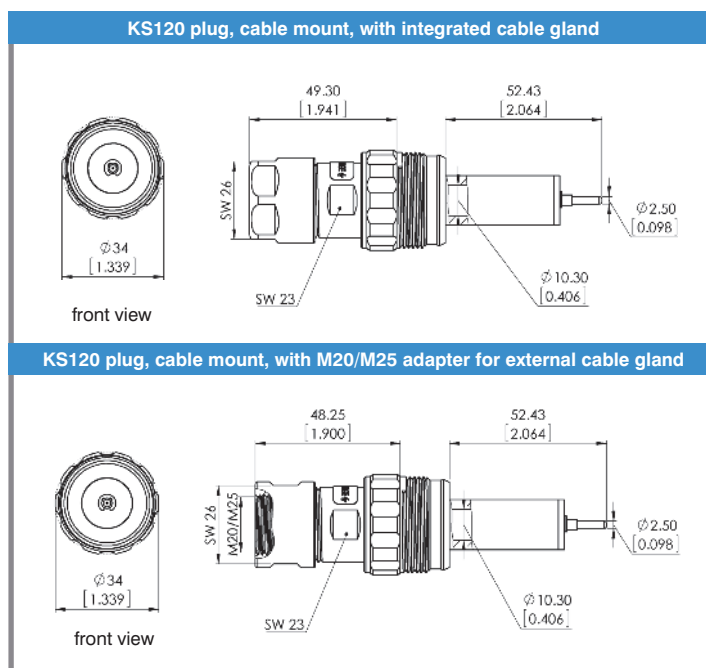
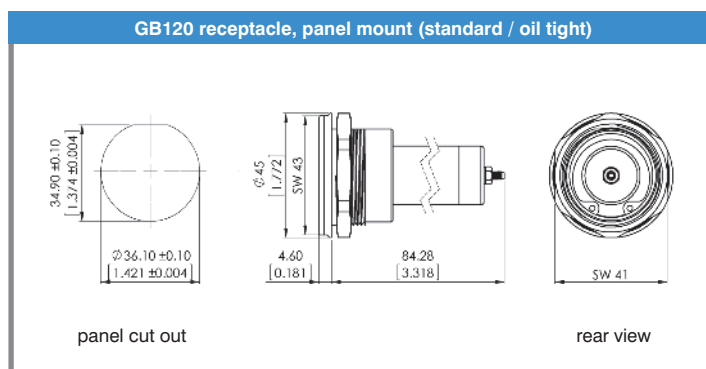


GB120 receptacle,
panel mount



KS120 plug,
cable mount

Electrical values	
Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	2.5 mm [.173"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200201	KS120/6.5-8 PTFE	•		•					
7200200	KS120/8-9.5 PTFE	•			•				
7200202	KS120/9.5-11 PTFE	•				•			
7200204	KS120/11-12.5 PTFE	•					•		
7200203	KS120/12.5-14 PTFE	•						•	
7200205	KS120/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200206	KS120/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200207	GB120 PTFE		•						
7200208	GB120/Ö PTFE		•						•

*KV = screwed cable gland

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GB125 receptacle,
panel mount



KS125 plug,
cable mount

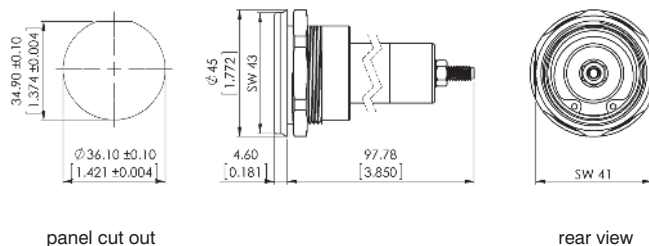
Electrical values

Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A

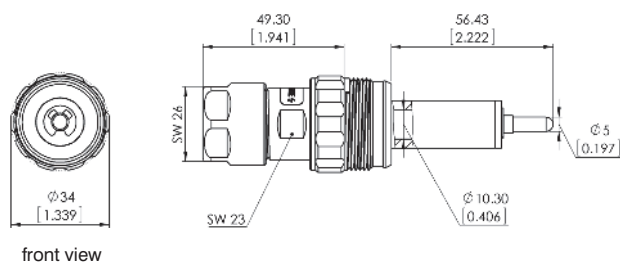
Characteristics

Contact size	5 mm [.197"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

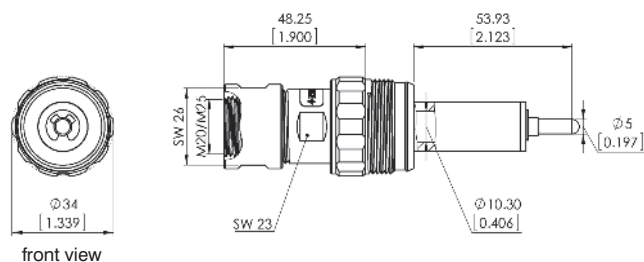
GB125 receptacle, panel mount (standard / oil tight)



KS125 plug, cable mount, with integrated cable gland



KS125 plug, cable mount, with M20/M25 adapter for external cable gland



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables $\varnothing$ 6.5 - 8 mm [.256" - .315"]	clamping range for cables $\varnothing$ 8 - 9.5 mm [.315" - .374"]	clamping range for cables $\varnothing$ 9.5 - 11 mm [.374" - .433"]	clamping range for cables $\varnothing$ 11 - 12.5 mm [.433" - .492"]	clamping range for cables $\varnothing$ 12.5 - 14 mm [.492" - .551"]	oil tight version
7200251	KS125/6.5-8 PTFE	•		•					
7200250	KS125/8-9.5 PTFE	•			•				
7200252	KS125/9.5-11 PTFE	•				•			
7200254	KS125/11-12.5 PTFE	•					•		
7200253	KS125/12.5-14 PTFE	•						•	
7200255	KS125/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200256	KS125/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200257	GB125 PTFE		•						
7200258	GB125/Ö PTFE		•						•

*KV = screwed cable gland



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GB125 Pro receptacle,
panel mount



KS125 Pro plug,
cable mount

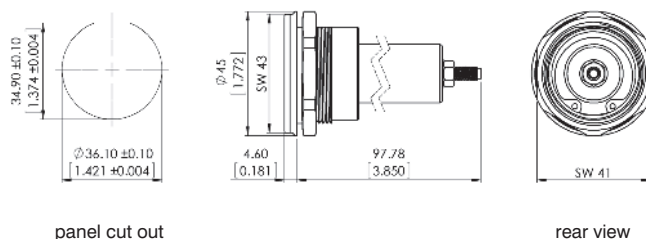
Electrical values

Operating voltage (DC)	20 kV
Test voltage (DC)	30 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A

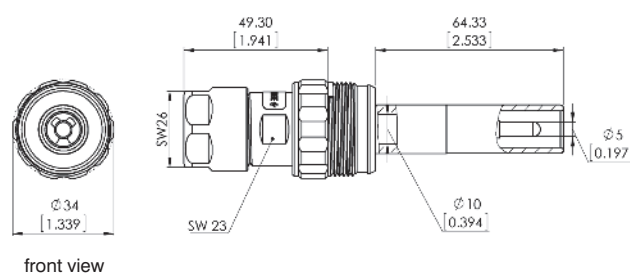
Characteristics

Contact size	5 mm [.197"]
Male contact (plug)	finger-proof
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

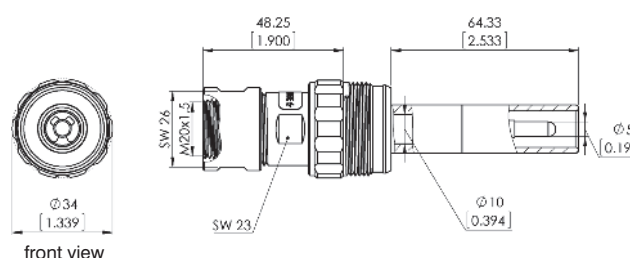
GB125 Pro receptacle, panel mount (standard / oil tight)



KS125 Pro plug, cable mount, with integrated cable gland



KS125 Pro plug, cable mount, with M20/M25 adapter for external cable gland



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200261	KS125Pro/6.5-8 PTFE	•		•					
7200260	KS125Pro/8-9.5 PTFE	•			•				
7200262	KS125Pro/9.5-11 PTFE	•				•			
7200264	KS125Pro/11-12.5 PTFE	•					•		
7200263	KS125Pro/12.5-14 PTFE	•						•	
7200265	KS125Pro/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200266	KS125Pro/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200267	GB125Pro PTFE		•						
7200268	GB125Pro/Ö PTFE		•						•

*KV = screwed cable gland



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GB130 receptacle,
panel mount



KS130 plug,
cable mount

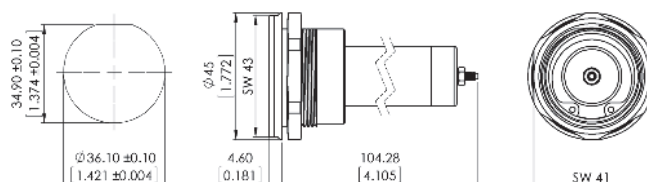
Electrical values

Operating voltage (DC)	30 kV
Test voltage (DC)	45 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

Characteristics

Contact size	2.5 mm [.173"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

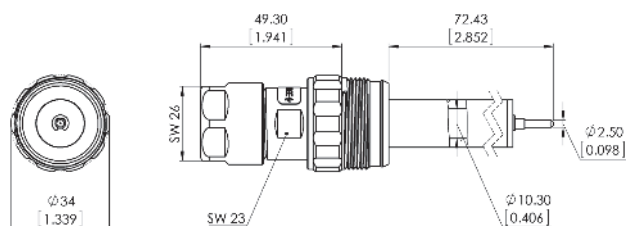
GB130 receptacle, panel mount (standard / oil tight)



panel cut out

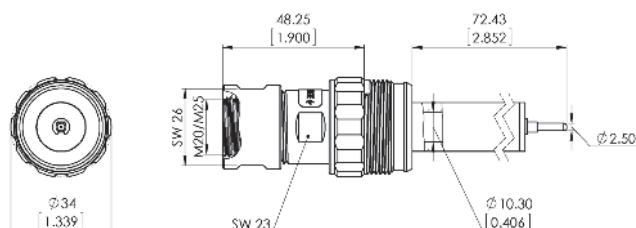
rear view

KS130 plug, cable mount, with integrated cable gland



front view

KS130 plug, cable mount, with M20/M25 adapter for external cable gland



front view

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables ϕ 6.5 - 8 mm [.256" - .315"]	clamping range for cables ϕ 8 - 9.5 mm [.315" - .374"]	clamping range for cables ϕ 9.5 - 11 mm [.374" - .433"]	clamping range for cables ϕ 11 - 12.5 mm [.433" - .492"]	clamping range for cables ϕ 12.5 - 14 mm [.492" - .551"]	oil tight version
7200301	KS130/6.5-8 PTFE	•		•					
7200300	KS130/8-9.5 PTFE	•			•				
7200302	KS130/9.5-11 PTFE	•				•			
7200304	KS130/11-12.5 PTFE	•					•		
7200303	KS130/12.5-14 PTFE	•						•	
7200305	KS130/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200306	KS130/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200307	GB130 PTFE		•						
7200308	GB130/Ö PTFE		•						•

*KV = screwed cable gland



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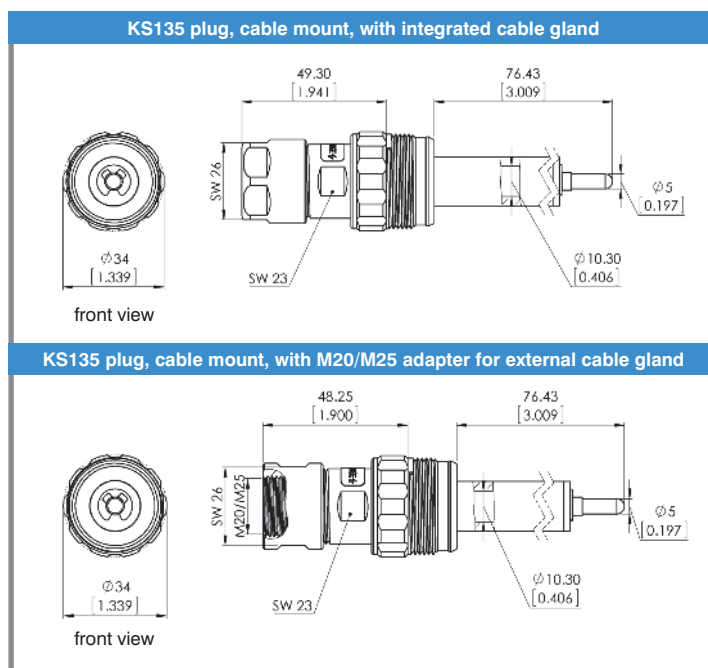
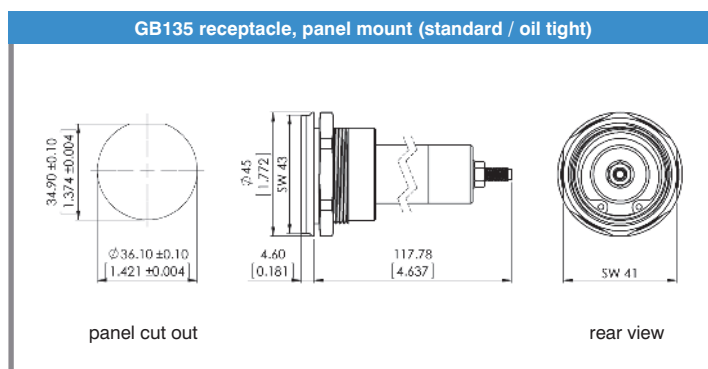


GB135 receptacle,
panel mount



KS135 plug,
cable mount

Electrical values	
Operating voltage (DC)	30 kV
Test voltage (DC)	45 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200351	KS135/6.5-8 PTFE	•		•					
7200350	KS135/8-9.5 PTFE	•			•				
7200352	KS135/9.5-11 PTFE	•				•			
7200354	KS135/11-12.5 PTFE	•					•		
7200353	KS135/12.5-14 PTFE	•						•	
7200355	KS135/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200356	KS135/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200357	GB135 PTFE		•						
7200358	GB135/Ö PTFE		•						•

*KV = screwed cable gland

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GB150 receptacle,
panel mount



KS150 plug,
cable mount

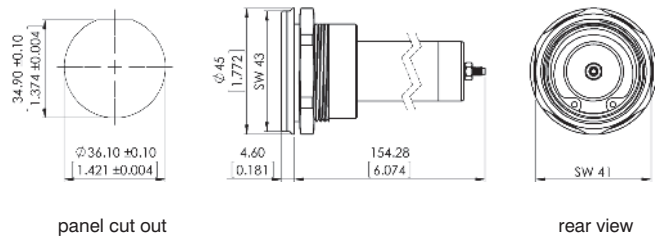
Electrical values

Operating voltage (DC)	50 kV
Test voltage (DC)	75 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

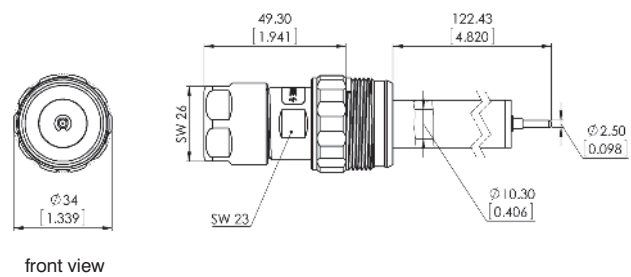
Characteristics

Contact size	2.5 mm [.173"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

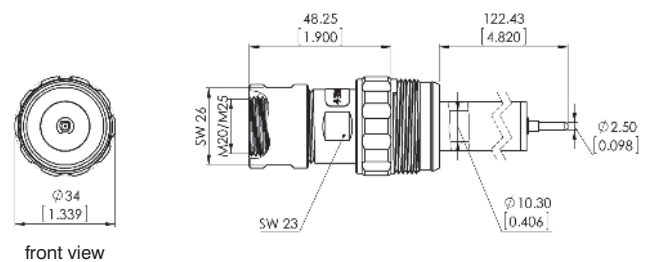
GB150 receptacle, panel mount (standard / oil tight)



KS150 plug, cable mount, with integrated cable gland



KS150 plug, cable mount, with M20/M25 adapter for external cable gland



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200501	KS150/6.5-8 PTFE	•		•					
7200500	KS150/8-9.5 PTFE	•			•				
7200502	KS150/9.5-11 PTFE	•				•			
7200504	KS150/11-12.5 PTFE	•					•		
7200503	KS150/12.5-14 PTFE	•						•	
7200505	KS150/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200506	KS150/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200507	GB150 PTFE		•						
7200508	GB150/Ö PTFE		•						•

*KV = screwed cable gland



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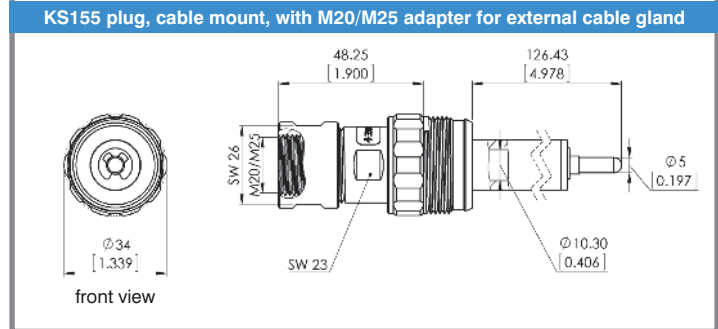
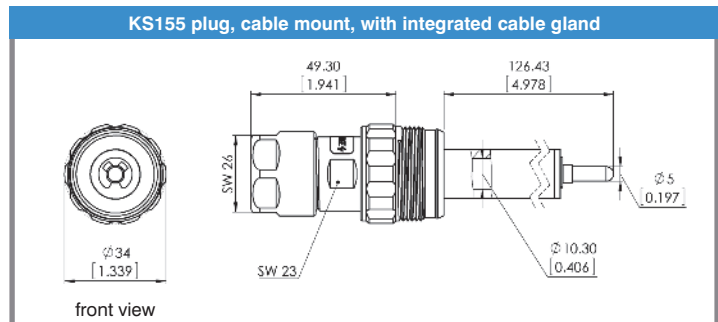
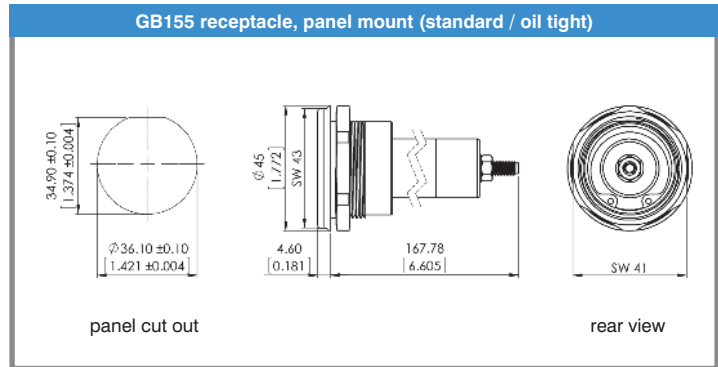


GB155 receptacle,
panel mount



KS155 plug,
cable mount

Electrical values	
Operating voltage (DC)	50 kV
Test voltage (DC)	75 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A
Characteristics	
Contact size	5 mm [.197"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7200551	KS155/6.5-8 PTFE	•		•					
7200550	KS155/8-9.5 PTFE	•			•				
7200552	KS155/9.5-11 PTFE	•				•			
7200554	KS155/11-12.5 PTFE	•					•		
7200553	KS155/12.5-14 PTFE	•						•	
7200555	KS155/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200556	KS155/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200557	GB155 PTFE		•						
7200558	GB155/Ö PTFE		•						•

*KV = screwed cable gland



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GB160 receptacle,
panel mount



KS160 plug,
cable mount

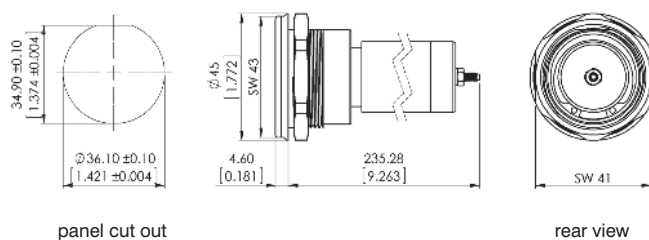
Electrical values

Operating voltage (DC)	60 kV
Test voltage (DC)	90 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

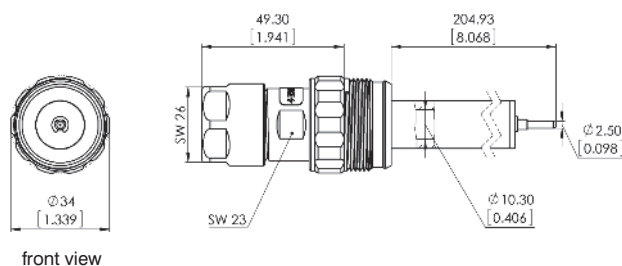
Characteristics

Contact size	2.5 mm [.173"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

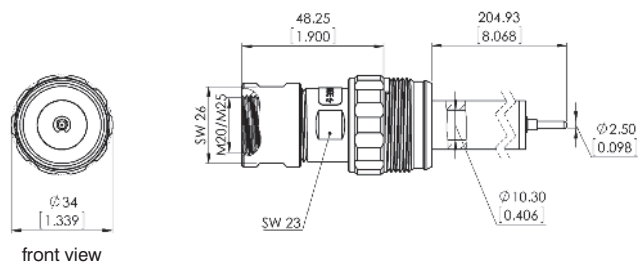
GB160 receptacle, panel mount (standard / oil tight)



KS160 plug, cable mount, with integrated cable gland



KS160 plug, cable mount, with M20/M25 adapter for external cable gland



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables $\varnothing 6.5 - 8$ mm [.256" - .315"]	clamping range for cables $\varnothing 8 - 9.5$ mm [.315" - .374"]	clamping range for cables $\varnothing 9.5 - 11$ mm [.374" - .433"]	clamping range for cables $\varnothing 11 - 12.5$ mm [.433" - .492"]	clamping range for cables $\varnothing 12.5 - 14$ mm [.492" - .551"]	oil tight version
7200601	KS160/6.5-8 PTFE	•		•					
7200600	KS160/8-9.5 PTFE	•			•				
7200602	KS160/9.5-11 PTFE	•				•			
7200604	KS160/11-12.5 PTFE	•					•		
7200603	KS160/12.5-14 PTFE	•						•	
7200605	KS160/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200609	KS160/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200607	GB160 PTFE		•						
7200608	GB160/Ö PTFE		•						•

*KV = screwed cable gland



Accessories: page 42
Mounting instructions: pages 44-47
Cables: pages 48-49



GB165 receptacle,
panel mount



KS165 plug,
cable mount

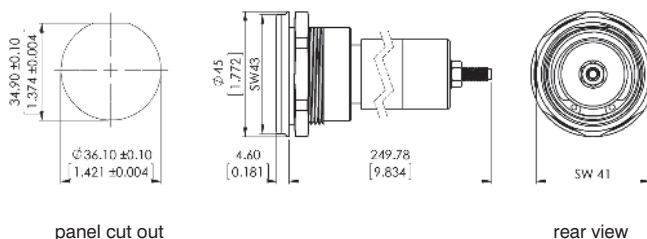
Electrical values

Operating voltage (DC)	60 kV
Test voltage (DC)	90 kV
Rated current	80 A
Maximum operating current	110 A
Pulse current	10000 A

Characteristics

Contact size	5 mm [.197"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

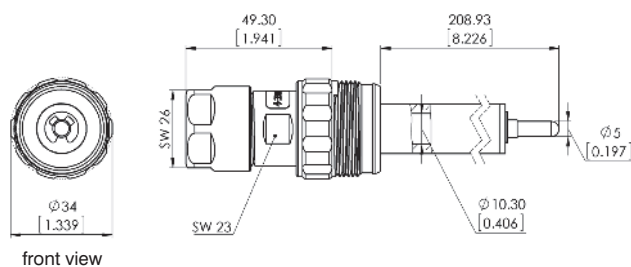
GB165 receptacle, panel mount (standard / oil tight)



panel cut out

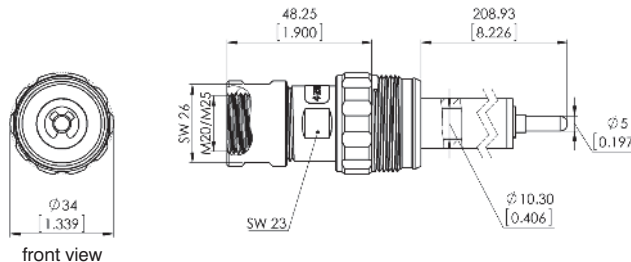
rear view

KS165 plug, cable mount, with integrated cable gland



front view

KS165 plug, cable mount, with M20/M25 adapter for external cable gland



front view

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables ϕ 6.5 - 8 mm [.256" - .315"]	clamping range for cables ϕ 8 - 9.5 mm [.315" - .374"]	clamping range for cables ϕ 9.5 - 11 mm [.374" - .433"]	clamping range for cables ϕ 11 - 12.5 mm [.433" - .492"]	clamping range for cables ϕ 12.5 - 14 mm [.492" - .551"]	oil tight version
7200651	KS165/6.5-8 PTFE	•		•					
7200650	KS165/8-9.5 PTFE	•			•				
7200652	KS165/9.5-11 PTFE	•				•			
7200654	KS165/11-12.5 PTFE	•					•		
7200653	KS165/12.5-14 PTFE	•						•	
7200655	KS165/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7200656	KS165/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7200657	GB165 PTFE		•						
7200658	GB165/Ö PTFE		•						•

*KV = screwed cable gland



Accessories: page 42
Mounting instructions: pages 44-47
Cables: pages 48-49



GB1100 receptacle,
panel mount



KS1100 plug,
cable mount

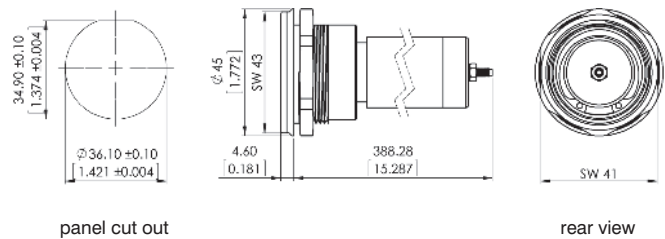
Electrical values

Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A

Characteristics

Contact size	2.5 mm [.173"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)

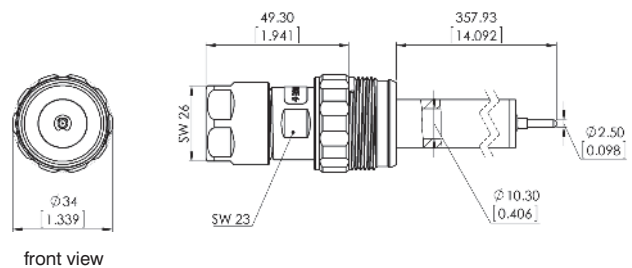
GB1100 receptacle, panel mount (standard / oil tight)



panel cut out

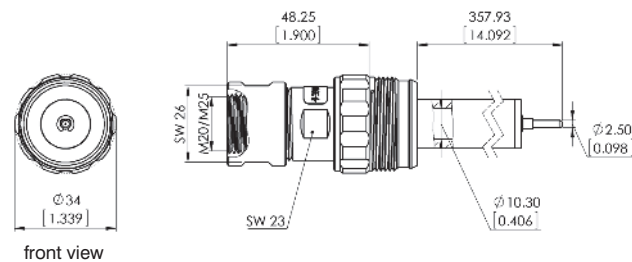
rear view

KS1100 plug, cable mount, with integrated cable gland



front view

KS1100 plug, cable mount, with M20/M25 adapter for external cable gland



front view

drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables Ø 6.5 - 8 mm [.256" - .315"]	clamping range for cables Ø 8 - 9.5 mm [.315" - .374"]	clamping range for cables Ø 9.5 - 11 mm [.374" - .433"]	clamping range for cables Ø 11 - 12.5 mm [.433" - .492"]	clamping range for cables Ø 12.5 - 14 mm [.492" - .551"]	oil tight version
7201001	KS1100/6.5-8 PTFE	•		•					
7201000	KS1100/8-9.5 PTFE	•			•				
7201002	KS1100/9.5-11 PTFE	•				•			
7201004	KS1100/11-12.5 PTFE	•					•		
7201003	KS1100/12.5-14 PTFE	•						•	
7201005	KS1100/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7201006	KS1100/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7201007	GB1100 PTFE		•						
7201008	GB1100/Ö PTFE		•						•

*KV = screwed cable gland



Accessories: page 42
Mounting instructions: pages 44-47
Cables: pages 48-49

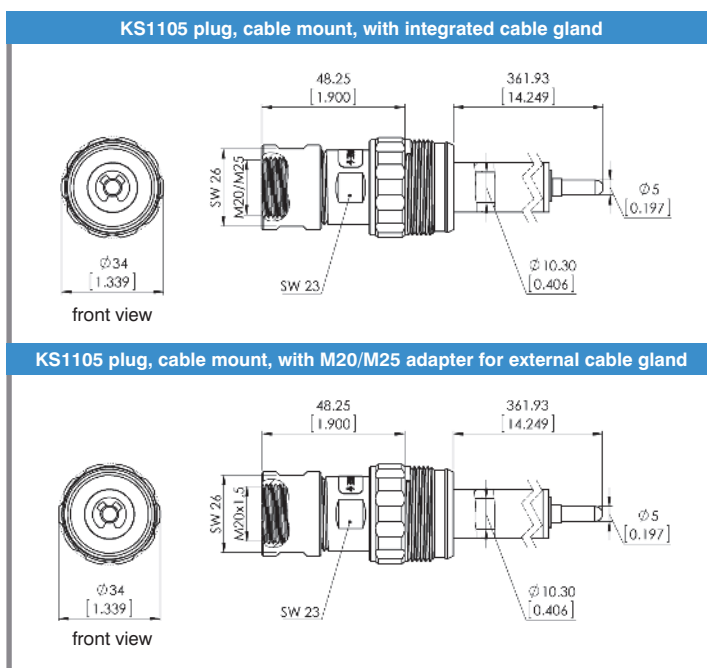
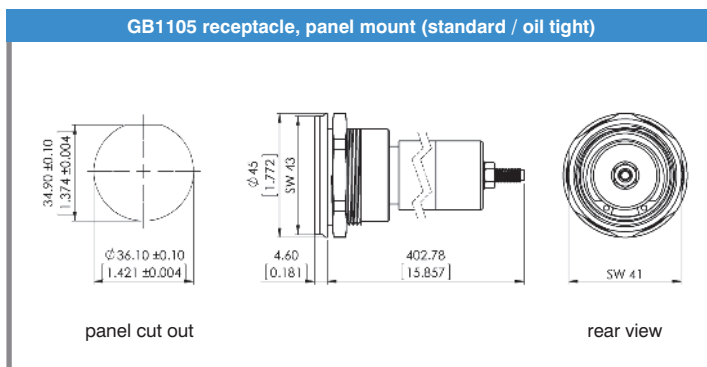


GB1105 receptacle,
panel mount



KS1105 plug,
cable mount

Electrical values	
Operating voltage (DC)	100 kV
Test voltage (DC)	150 kV
Rated current	30 A
Maximum operating current	40 A
Pulse current	3000 A
Characteristics	
Contact size	5.0 mm [.197"]
Insulation material	PTFE
Mounting type receptacle	round flange
Contact plating	silver (Ag)



drawing - dimensions in mm [inch]

P/N	Description	Plug, cable mount	Receptacle, panel mount	clamping range for cables $\phi 6.5 - 8$ mm [.256" - .315"]	clamping range for cables $\phi 8 - 9.5$ mm [.315" - .374"]	clamping range for cables $\phi 9.5 - 11$ mm [.374" - .433"]	clamping range for cables $\phi 11 - 12.5$ mm [.433" - .492"]	clamping range for cables $\phi 12.5 - 14$ mm [.492" - .551"]	oil tight version
7201051	KS1105/6.5-8 PTFE	•		•					
7201050	KS1105/8-9.5 PTFE	•			•				
7201052	KS1105/9.5-11 PTFE	•				•			
7201054	KS1105/11-12.5 PTFE	•					•		
7201053	KS1105/12.5-14 PTFE	•						•	
7201055	KS1105/M20 PTFE	•		with adapter M20x1.5 for external cable gland					
7201056	KS1105/M25 PTFE	•		with adapter M25x1.5 for external cable gland					
7201057	GB1105 PTFE		•						
7201058	GB1105/Ö PTFE		•						•

*KV = screwed cable gland

Accessories: page 42
Mounting instructions: pages 44-47
Cables: pages 48-49

Contacts

P/N	Description	Drawing
6572001	male contact 2.5 mm silver plated (Ag)	
6572005	female contact 2.5 mm silver plated (Ag)	
6672050	male contact 5 mm silver plated (Ag)	
6572007	female contact 5 mm silver plated (Ag)	

Covering

P/N	Description
6671011	Threaded covering with chain for receptacles Series 100
Drawing	
length of chain approx. 135 mm	

drawing - dimensions in mm [inch]



Assembly Instructions Series 100 (plug, cable mount)

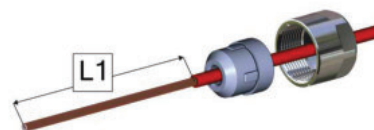
100 Series

1.



Part as delivered

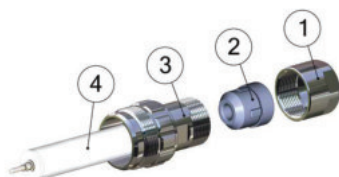
5.



Remove cable jacket

⚠ Do not damage shield braid

2.

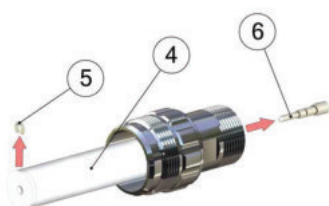


Components

Cap (1), sealing insert (2), housing (3), insulator (4)

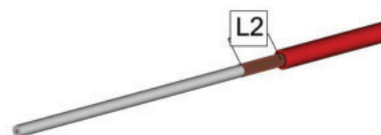
Types	min. L1 mm [inch]
S110 / S115	52 [2.037"]
S120 / S125 / S125 Pro	72 [2.824"]
S130 / S135	92 [3.611"]
S150 / S155	142 [5.580"]
S160 / S165	224 [8.828"]
S1100 / S1105	377 [14.852"]

3.



Remove snap ring (5) and take out male contact (6)

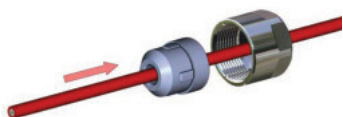
6.



Cut shield braid roughly about 30 mm [1.181"] (=L2)

⚠ Carefully remove shield parts. Loose shield parts can cause electrical break down

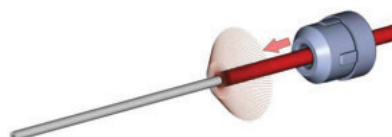
4.



Place cap (1) and sealing insert (2) on cable

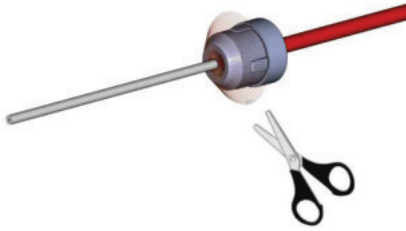
⚠ Respect correct order of parts (see picture)

7.



Completely widen shield braid. Push seal insert (2) under shield braid

8.



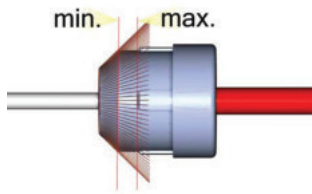
Cut shield to length.
⚠ For length see step 9.

12.



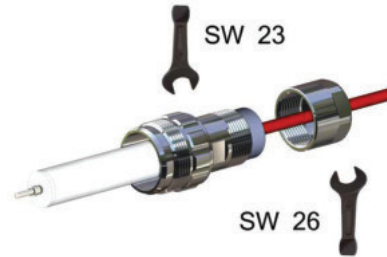
Completely insert cable in insulation part (4) until seal insert (2) plugs in housing (3)

9.



Make sure shield length is between min. and max. mark.

13.



Screw cap (1) onto housing (3)
⚠ Wrench size housing SW23, Wrench size cap SW26, tightening torque 10 Nm

10.



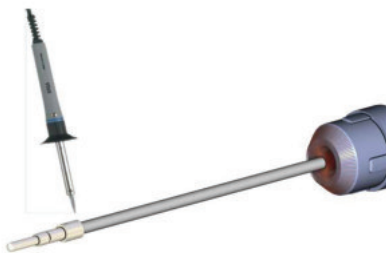
Remove dielectric insulation

14.



Secure contact (6) with snap ring (5)

11.



Solder contact (6) on conductor
⚠ Tin-solder must not remain on contact surface

15.



Assembly finished

Types	min. L3 mm [inch]
KS 110/120/130/150/160/1100	5 [.197"]
KS 115/125/125 Pro/135/155/165/1105	8 [.315"]

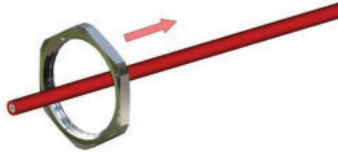
⚠ Do not damage conductor

1.



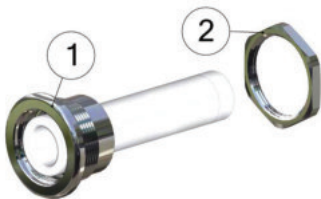
Part as supplied

4.



Place counter nut (1) on cable

2.



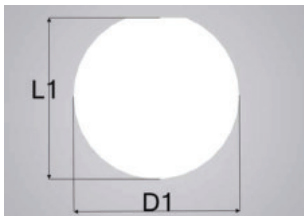
Remove counter nut (1) from housing (2)

5.



⚠ ONLY when using shielded cable:
Remove cable jacket

3.



Panel cut out

Dimension	Value mm [inch]
D1	36.10 [1.421"]
L1	34.90 [1.374"]

Type	min. L2 mm [inch]
B 110 / 115	40 [1.575"]
B 120 / 125	80 [3.150"]
B 130 / 135	120 [4.724"]
B 150 / 155	200 [7.874"]
B 160 / 165	240 [9.449"]
B 1100 / 1105	400 [15.748"]

⚠ Do not damage shield braid

6.



Fold back shield braid over jacket

Assembly Instructions Series 100 (receptacle, panel mount)

7.



Remove dielectric insulation

Type	min. L3 mm [inch]
B 110 / 120 / 130 / 150 / 160 / 1100	5 [.197"]
B 115 / 125 / 135 / 155 / 165 / 1105	8 [.315"]

⚠ Do not damage conductor.

10.



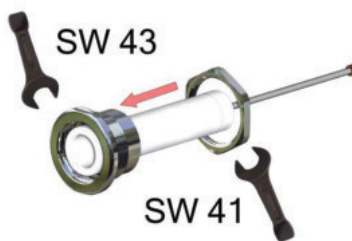
Assembly finished

8.



Solder conductor on female contact or use a cable lug to connect conductor with contact
⚠ Tin-solder must not remain on contact surface

9.

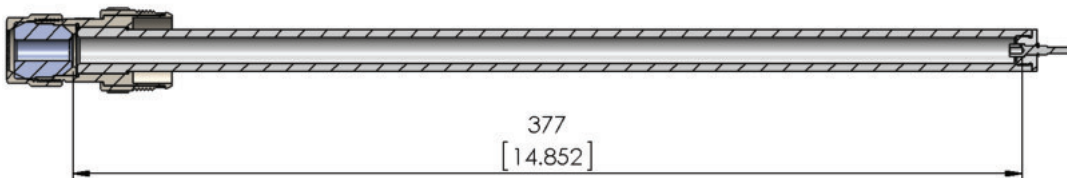
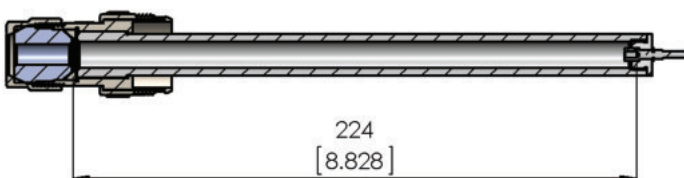
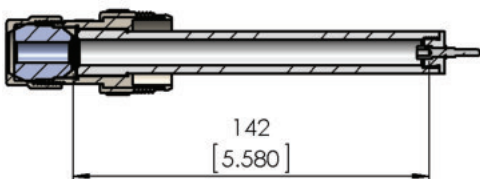
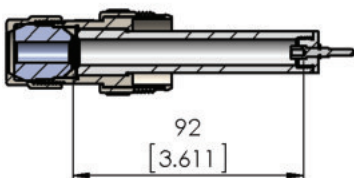
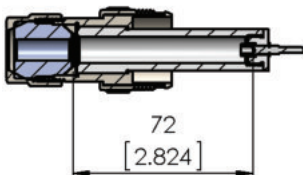
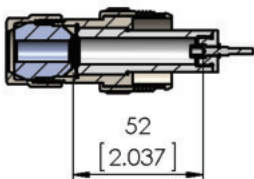


Screw on counter nut and tighten



Note – important!

1. Please carefully read assembly instructions before cable assembly.
2. Cable assembly must only be done by trained and qualified personnel.



IMPORTANT – PLEASE NOTE:

Stated stripping lengths are referring
ONLY to jackets of shielded cables!

	Part No. 3330039	Part No. 3330049	Part No. 3330050
Operating voltage DC	60 kVDC	100 kVDC	100 kVDC
Operating voltage AC rms	20 kVAC	30 kVAC	
Conductor size			
AWG	AWG 18	AWG 16	AWG 16
Strands	19 x AWG 30	19 x AWG 29	19 x AWG 29
Cross section	0.97 mm ²	1.2 mm ²	1.2 mm ²
Diameter	1.24 mm [.049"]	1.25 mm [.049"]	1.25 mm [.049"]
Semicon	YES	YES	YES
Diameter	2.0 mm [.079"]	2.5 mm [.098"]	2.5 mm [.098"]
Material	Semiconductive PE	Semiconductive PE	Semiconductive PE
Dielectric			
Diameter	5.8 mm [.228"] (± 0.25 mm)	9.4 mm [.370"] (± 0.25 mm)	9.4 mm [.370"] (± 0.25 mm)
Material	LDHMW PE	LDHMW PE	LDHMW PE
Screen (Shield)	YES	NO	YES
Diameter	6.9 mm [.272"]	x	9.8 mm [.386"]
Material	Cu/Sn (AWG 34 t.p.c.) 85% coverage	x	Cu/Sn (AWG 34 t.p.c.) 90% coverage
Jacket			
Diameter	7.7 mm [.303"] (± 0.3 mm)	x	11.2 mm [.441"] (± 0.25 mm)
Material	TPE-U	x	PVC
Impedance	x	x	61 Ω
Capacitance	typ. 121pF/m	x	98 pF/m
Min. bend radius	90 mm [3.543"] (fixed)	127 mm [5"] (fixed)	152 mm [5.984"] (fixed)
Temperature range	-40°C to +60°C	-51°C to +60°C	-51°C to +60°C
Weight	0.077 kg/m	0.075 kg/m	0.149 kg/m
Color	red	transparent	black
Fits connector types	SB110 SB115 SB120 SB125 SB125Pro SB130 SB135 SB150 SB155 SB160 SB165	SB110 SB115 SB120 SB125 SB125Pro SB130 SB135 SB150 SB155 SB160 SB165 SB1100 SB1105	SB110 SB115 SB120 SB125 SB125Pro SB130 SB135 SB150 SB155 SB160 SB165 SB1100 SB1105