



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS R19

Robust. Reliable. Flexible.

Optional modules COS

Optional modules for feeding through different media such as electrical signals, pneumatics, fluids and vacuum.

Field of application

For fast media transfer with short change-over times between change master and change adapter in order to supply the end effector with the required media.

Advantages – Your benefits

Fits perfectly for easy combination with SCHUNK tool changers

Wide range of different variants for feeding through of various media

Module variety the appropriate module for the required media transfer for every size of SCHUNK tool changers

Connector variants with radial, axial, and side cable outlet for a low interfering contour in restricted spaces

Combination of several optional modules for maximum flexibility of the tool changer

Minimum wear for a high number of change cycles and a long service life

Customer-specific designs available on request the suitable solution for any application

Cable connector, cable extensions and protection covers available on request for a comprehensive complete solution from one source



Application example



① Automatic tool changers CPS

③ Modular storage rack CTS

⑤ 2-finger parallel gripper JGP-P

② Optional modules COS

④ Universal gripper EGU

SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Tool changer



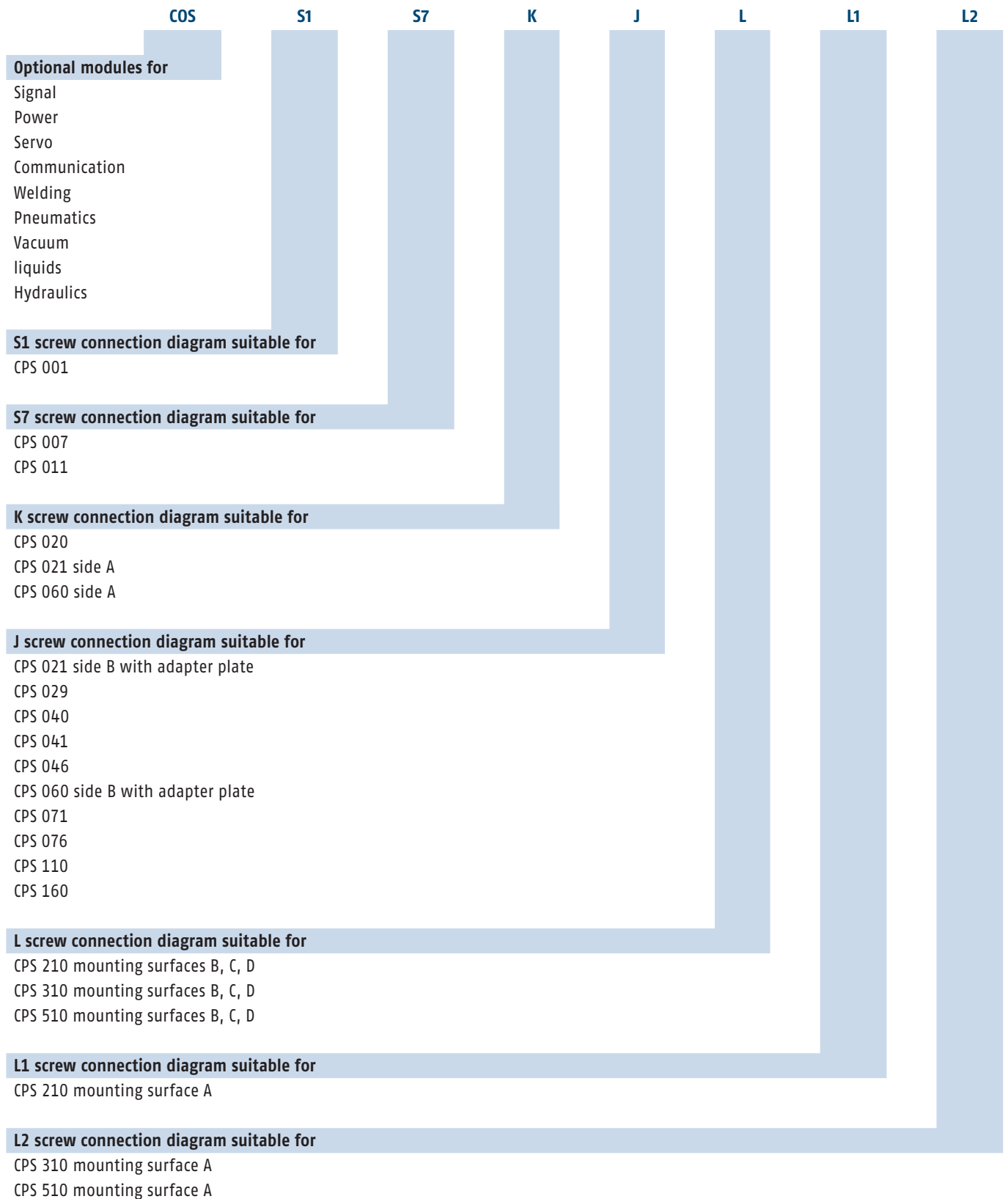
Manual change system



Pallet change system

① For more information on these products can be found on the following product pages or at [schunk.com](https://www.schunk.com).

Overview of optional modules and mounting pattern



Special designs with modified seals or lubrication are available on request

COS R19

Feed-through modules



Technical data

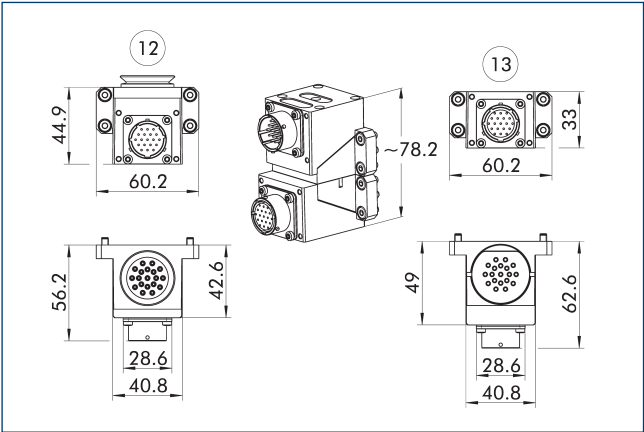
Description		COS R19-K	COS R19R-K	COS R19W-K	COS R19-KIT-K	COS R19-A	COS R19-KIT-A
ID		1586443	1586448	1586472	1586446	1586442	1586445
Suitable on		Change head	Change head	Change head	Change head	Tool	Tool
Screw connection diagram		J	J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.11	0.12	0.12	0.2	0.1	0.14
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60	5/60
Protection class IP		IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)
Number of pin contacts		19	15	15	19	19	19
Nominal current	[A]	5	5	5	5	5	5
Alternating voltage	[V AC]	250	250	250	250	250	250
Direct voltage	[V DC]	250	250	250	250	250	250
Electrical connection		Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock connector, 19 pins		Amphenol PT bayonet lock socket, 19 pins	
Outlet connection		radial	radial	radial		radial	
Electrical connection					M16 cable gland for Ø 5 – 10 mm		M16 cable gland for Ø 5 – 10 mm
Special properties			Two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	The KIT has an additional attachment with various outlet options. Direct soldering of the cable strands to the pin block.		The KIT has an additional attachment with various outlet options. Direct soldering of the cable strands to the pin block.

Description		COS R14-A	COS R13-A
ID		1586440	1586407
Suitable on		Tool	Tool
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.11	0.11
Min./max. ambient temperature	[°C]	5/60	5/60
Protection class IP		IP64 (only in a coupled state)	IP64 (only in a coupled state)
Number of pin contacts		14	13
Nominal current	[A]	5	5
Alternating voltage	[V AC]	250	250
Direct voltage	[V DC]	250	250
Electrical connection		Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins
Outlet connection		radial	radial
Special properties		Rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V.	Rotary encoder switch for tool coding for 0-31 tools. Designed for max. 0.15 A and 24 V.

COS R19

Feed-through modules

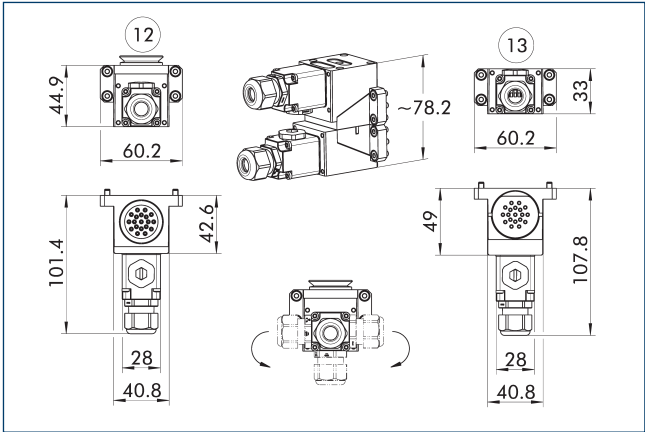
Combination COS R19-K and COS R19-A



12 Master side

13 Adapter side

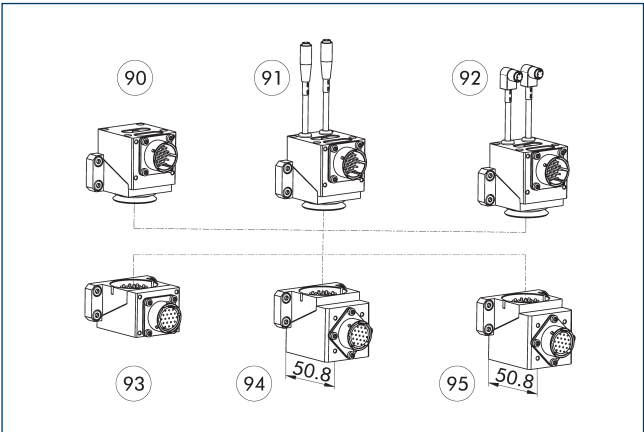
Combination COS R19-Kit-K and COS R19-Kit-A



12 Master side

13 Adapter side

Combination possibilities R19



90 COS R19-K

91 COS R19W-K

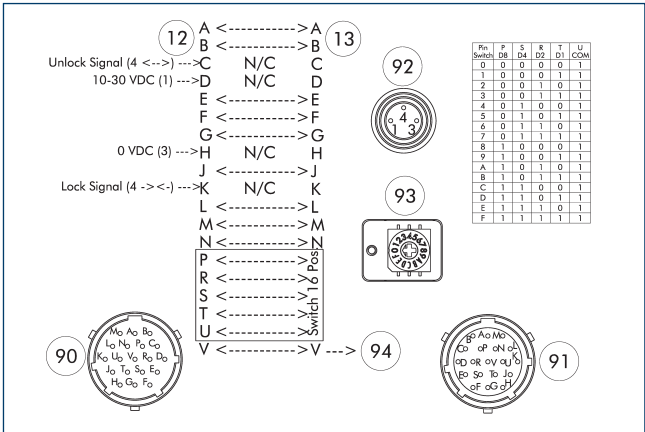
92 COS R19R-K

93 COS R19-A

94 COS R14-A

95 COS R13-A

Pin assignment for COS R19W-K with COS R14-A



12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

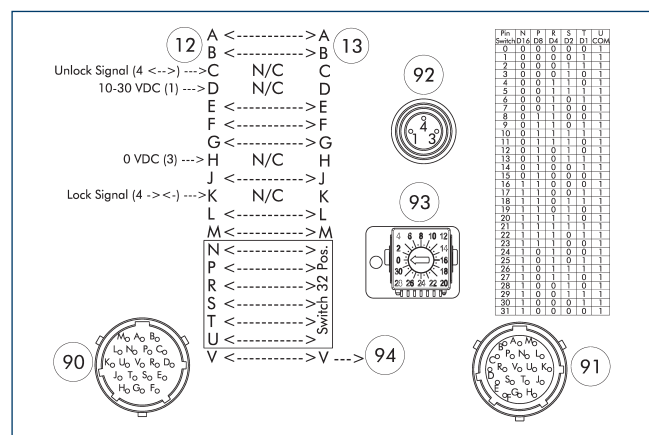
91 Amphenol PT bayonet lock socket, 19 pins

92 M8 socket, A-coded, 3-pin

93 Rotary encoder switch for tool coding of 0-15 tools.

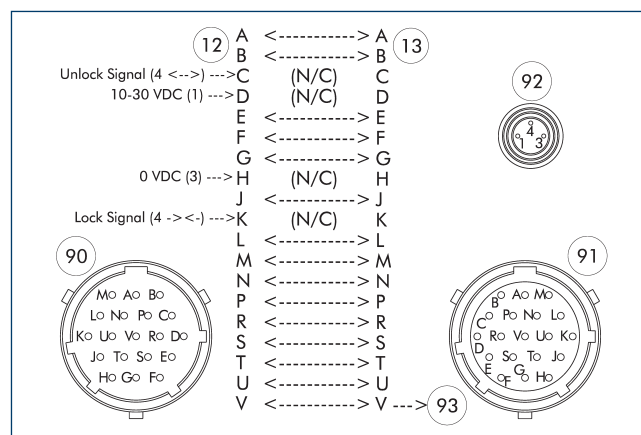
94 leading pin

Pin assignment for COS R19W-K with COS R13-A



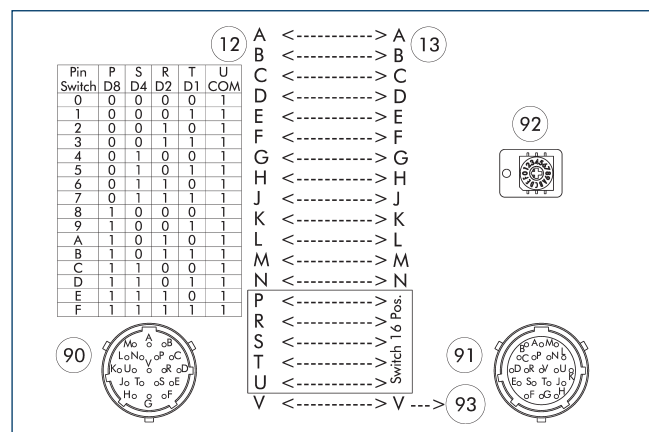
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 M8 socket, A-coded, 3-pin
- 93 Rotary encoder switch for tool coding for 0 - 31 tools.
- 94 leading pin

Pin assignment for COS R19W-K with COS R19-A



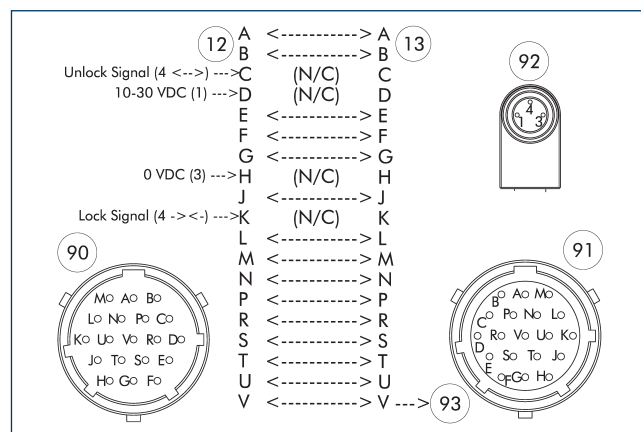
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 M8 socket, A-coded, 3-pin
- 93 leading pin

Pin assignment for COS R19-K with COS R14-A



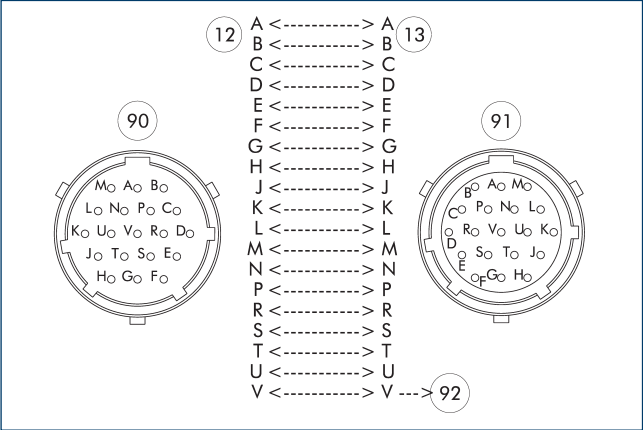
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
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- 93 leading pin

Pin assignment for COS R19R-K with COS R19-A



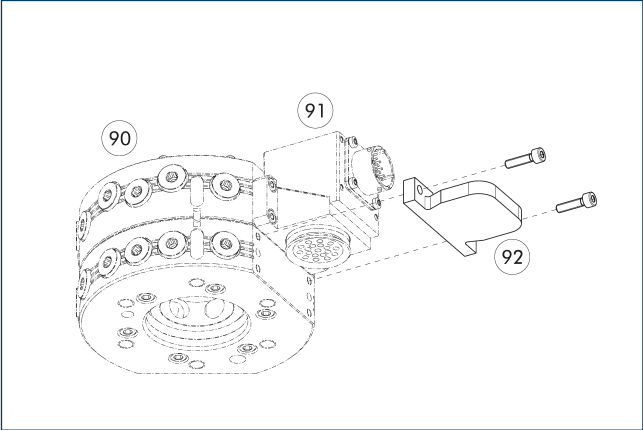
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- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
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- 92 M8 socket, A-coded, 3-pin
- 93 leading pin

Pin assignment for COS R19-K with COS R19-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 leading pin

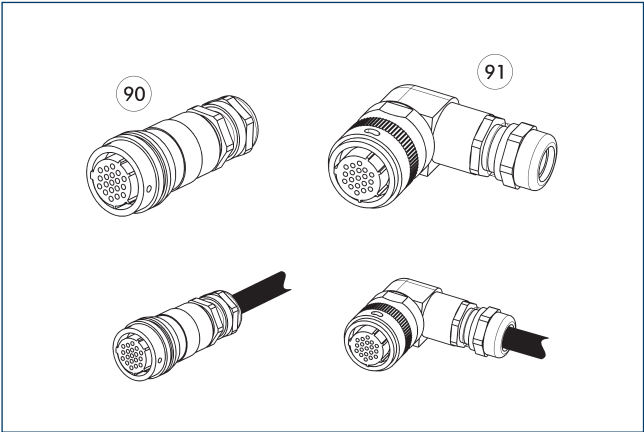
Cover COS JPC-A



- 90 Automatic tool changers CPS
- 91 Optional module COS master
- 92 Cover COS JPC-A

Description	ID	Suitable for
Cover		
COS JPC-A	1584095	For many electrical modules with screw-on pattern J

Cable plug/cable extension



90 Plug/socket straight 91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length
		[m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
Angled cable connector with cable, robot-side		
KA BW19B-L 19P-0300	0302179	3
KA BW19B-L 19P-0500	0302190	5
Angled cable connector with cable, tool-side		
KA SW19B-L 19P-0300	0302191	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
Straight cable connector with cable, robot-side		
KA BG19B-L 19P-0300	0302176	3
KA BG19B-L 19P-0500	0302177	5
Straight cable connector with cable, tool-side		
KA SG19B-L 19P-0300	0302178	3

① Detailed information and further cable connectors can be found at schunk.com



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