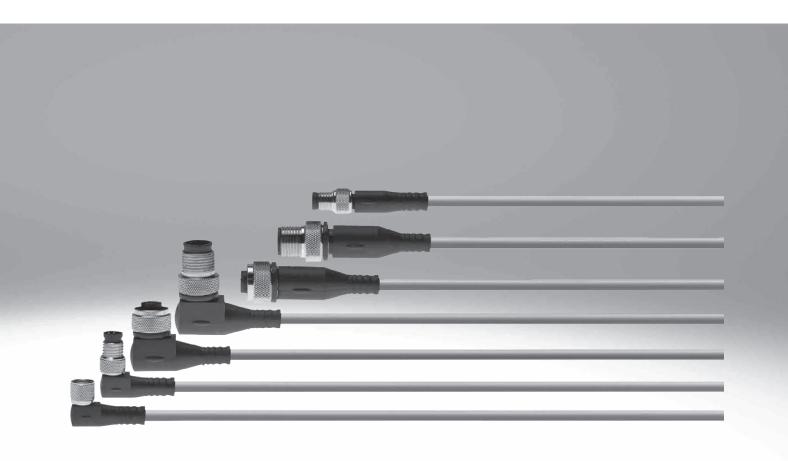
Connecting cables, universal





★/☆

Festo core product range

Covers 80% of your automation tasks

Worldwide:

Always in stock

Superb: Easy: Festo quality at an attractive price Simplified procurement and warehousing ★ Generally ready for dispatch from the factory within 24 hours In stock at 13 Service Centres worldwide More than 2200 products

☆ Generally ready for dispatch from the factory within 5 days Assembled for you at 4 Service Centres worldwide Up to 6 × 10¹² variants per product family

Characteristics

Cable characteristic

The connecting cables NEBU can be configured and ordered using a modular system. A range of characteristics can therefore be defined.

These include, for example:

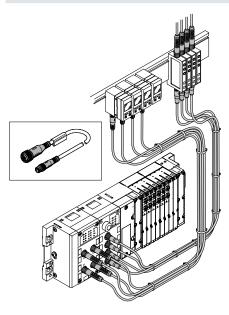
- · Electrical connection
- Cable characteristic
- Length
- Number of pins/wires

The cable characteristic indicates the resistance of the connecting cable to the mechanical load.

There are three qualities:

- Standard
- Suitable for energy chains
- Suitable for robot applications

Cable characteristic: standard



Standard applications are characterised by fixed cable installation or small to medium mechanical loads.

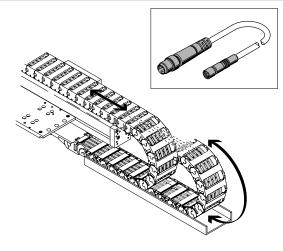
The connecting cable can even be used for simple applications with energy chains with larger radii.

The cable sheath of the connecting cables is made of polyurethane, is free of halogen, oil resistant and optimised for installation in contact with pneumatic tubing; free of phosphoric acid ester.

Code K

- The connecting cable is tested for resistance to bending according to the Festo standard; test conditions are available on request.
- The connecting cable has been tested on an energy chain over 5 million cycles and at a bending radius of 75 mm.

Cable characteristic: suitable for energy chains



Energy chain applications involve high mechanical loads, particularly if very small radii are required.

The connecting cable can be used in a setting where it is constantly subjected to bending.

The cable sheath of the connecting cables is made of polyurethane, is free of halogen, oil resistant and optimised for installation in contact with pneumatic tubing; free of phosphoric acid ester.

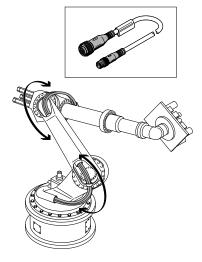
Code E

- The connecting cable is tested for resistance to bending according to the Festo standard; test conditions are available on request.
- The connecting cable has been tested on an energy chain over 5 million cycles and at a bending radius of 75 mm.
- The connecting cable has been tested on an energy chain over 5 million cycles and at a bending radius of 28 mm.

Characteristics

Cable characteristic

Cable characteristic: suitable for robot applications



Robot applications involve high mechanical loads that are primarily caused by torsion (twisting).

The cable sheath of the connecting cables is made of polyurethane, is free of halogen, oil resistant and optimised for installation in contact with pneumatic tubing; free of phosphoric acid ester.

Code R

- The connecting cable is tested for resistance to bending according to the Festo standard; test conditions are available on request.
- The connecting cable has been tested on an energy chain over 5 million cycles and at a bending radius of 75 mm.
- The connecting cable has been tested on an energy chain over 5 million cycles and at a bending radius of 28 mm.
- The connecting cable has been tested for torsional resistance over more than 0.3 million cycles at ±270°/0.1 m.

Connection technology version

The type of plug for the connecting cable can be selected (e.g. angled or straight).

The rotatable version is a special type: with an angled socket, the cable outlet can be rotated 360° in increments of 15°.

Benefit:

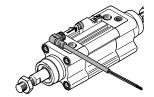
The cable outlet can be rotated to the optimum position in tight installation conditions.

The rotatable plug is not designed to be constantly adjusted.

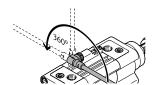
Mounting



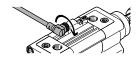
Observe the orientation of the pins.



Connect the plug to the socket.



Adjust the cable outlet.



Tighten the union nut.

Connecting cables, universal

Product range overview

Function	on Version Type Connection technology (on the right) Cable characteristic		Length	→ Page/ Internet					
Electrical	Electrical connection (on the left), open cable end								
connecting cable	5-pin	5-pin NEBU-LE Plug Standard, suitable for energy chains, suitable for robot applications		0.1 30 m	6				
	Electrical connecti	ion (on the left), sock	et M8						
	3-pin	NEBU-M8 SIM-M8	Plug, open cable end	Standard, suitable for energy chains, suitable for robot applications	0.1 30 m	11			
	4-pin	4-pin NEBU-M8 Plug, open cable end Standard, suitable for energy chains, suitable for		Standard, suitable for energy chains, suitable for robot applications	0.1 30 m	18			
	Electrical connection (on the left), socket M12								
	4-pin	SIM-M12-RS-3	Open cable end	Resistant to welding spatter	3 m	24			
	5-pin	NEBU-M12G5 NEBU-M12W5 SIM-M12	Plug, open cable end	Standard, suitable for energy chains, suitable for robot applications	0.1 30 m	27			
	8-pin	NEBU-M12-W8 SIM-M12-8 KM12-8	Plug, open cable end	Standard	2 m, 5 m, 10 m, 15 m, 20 m, 25 m	35			
	Electrical connecti	ion (on the left), sock	et G7/8						
	5-pin	NEBU-G78	Open cable end	Standard	2 m	40			
	Electrical connecti	ion (on the left), clip		·	·	·			
	3-pin	SIM-K	Open cable end	Standard	2.5 m, 5 m, 10 m	42			
	4-pin	SIM-K-4	Open cable end	Standard	2.5 m, 5 m	45			

Type codes

001	Series	
NEBU	Connecting cable, universal	
1	To a contract to	
002	Connection technology left, field device side	
M8	Socket M8x1 A-coded, EN 61076-2-104	
M12	Socket M12x1 A-coded, EN 61076-2-101	
G78	7/8"	
LE	Open end	
1002	Locks and Alexander	ı
003	Cable outlet left	
	None	
G	Straight	
R	Rotating	
W	Angled	
004	Number of pins/wires on the left	
3	3	
4	4	
5	5	
8	8	
005	Display	
	None	
L	LED signal status, DC	
N	LED switching state, NPN	
Р	LED switching state, PNP	
P2	2x LED, PNP	
006	Cable characteristic	ı
Р	Basic	\vdash
K	Standard	\sqcup
E	Suitable for energy chains	\perp
R	Suitable for robot applications	

007	Cable length [m]	
0.1	0.1	
0.5	0.5	
1	1	
1.5	1.5	
2	2	
2.5	2.5	
3	3	
3.5	3.5	
5	5	
7	7	
7.5	7.5	
9	9	
10	10	
15	15	
30	30	
800	Cable identification	
	With label holder	
N	Without label holder	

009	Wire cross section [mm²]	
	Standard	
Q8	1	
010	Composition to should be wished another than side	

010	connection technology right, controller side	
M8	Plug M8x1 A-coded, EN 61076-2-104	
M12	Plug M12x1 A-coded, EN 61076-2-101	
LE	Open end	

01	1	Plug	
		None	
G		Straight	
W		Angled	

012	Number of pins/wires on the right
2	2
3	3
4	4
5	5
8	8

Connecting cable NEBU-LE

- Connecting cable for connecting inputs/outputs
- Pre-assembled at one end
- Cable lengths 0.1 ... 30 m
- 3, 4, 5 wires
- Plug M8 or M12



General technical data	
Conforms to standard	EN 61076-2-104
	EN 61076-2-101
	Wire colours and connection numbers to EN 60947-5-2
Cable designation	With 2x inscription label holders
Degree of protection to EN 60529	IP65, IP68, IP69K
Note on degree of protection	In assembled state

Technical data – Electrical connection 1						
nction Field device side						
Connection type	Cable					
Connection technology	Open end					
Number of pins/wires	3	4	5			
Assigned pins/wires	3	4	5			

Technical data – Electrical components		Plug M8x1		1 .		
Electrical connection 2	lectrical connection 2			Plug M12x1		
		3-pin	4-pin	3-pin	4-pin	5-pin
Operating voltage range	[V DC]	0 60	0 30	0 250	0 250	0 60
	[V AC]	0 60	0 30	0 250	0 250	0 60
Surge resistance	[kV]	1.5	0.8	2.5	2.5	1.5
Current rating	[A]	3	3	4	4	4

Technical data – Cable						
Cable characteristic		Code -K-	Standard			
		Code -E-	Suitable for energy chains			
		Code -R-	Suitable for robot applications			
Cable testing conditions			Bending strength: to Festo standard			
			Test conditions on request			
	Cable charac-	Standard	Energy chain: 5 million cycles, bending radius 75 mm			
	teristic	Suitable for energy chains	Energy chain: 5 million cycles, bending radius 28 mm			
		Suitable for robot applications	Energy chain: 5 million cycles, bending radius 28 mm			
			Torsional resistance more than 300000 cycles, ±270°/0.1 m			
Cable diameter		[mm]	4.5			
Cable diameter tolerance [mm]		[mm]	±0.1			
Cable composition		[mm ²]	3x 0.25 4x 0.25 5x 0.25			
Conductor nominal cross section		[mm ²]	0.25			

Technical data – Electrical connection 2						
unction Controller side						
Design	Re	Round				
Connection type	P	Plug				
Cable outlet	Si	Straight				
Connection technology	M	M8x1, A-coded to EN 61076-2-104 M12x1, A-coded to EN 61076-2-101				
Number of pins/wires	3	3 4 3 4 5			5	
Assigned pins/wires 3 4 3 4				5		
Type of mounting	inting Screw-type lock					

Materials	
Housing	TPE-U(PUR)
Housing colour	Black
Cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Insulating sheath	PP
Screw-type lock	Nickel-plated brass
Note on materials	RoHS-compliant
	Free of copper and PTFE
	Halogen-free
	Free of phosphoric acid ester
Special characteristics	Oil resistant

Operating and environmental conditions		
Ambient temperature	[°C]	-25 +70
Ambient temperature with flexible cable installation	[°C]	-5 +70
Corrosion resistance CRC ¹⁾		2
CE marking (see declaration of conformity) ²⁾		To EU Low-Voltage Directive
Pollution degree		3

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

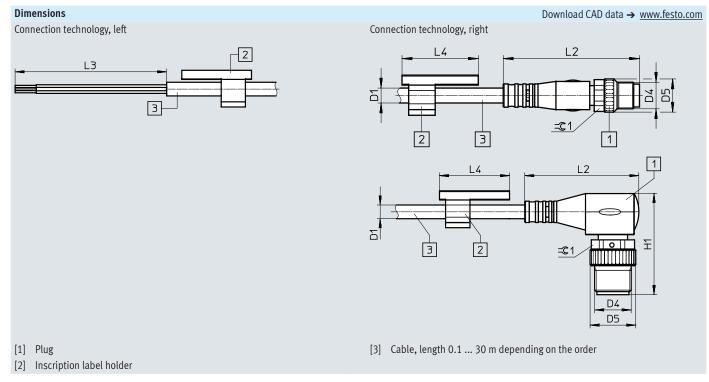
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Additional information www.festo.com/sp → Certificates.

Connecting cables, open cable end

Circuitry (socket view)					
Electrical connection 1	Pin	Wire colour ¹⁾	Pin	Electrical connection 2	
Electrical connection, open cable	end, 3-wire – plug,	3-pin		Plug M8	Plug M12
-	1	BN	1	4	
	2	WH	_		
	3	BU	3	+ 2	
	4	ВК	4	1 + + 3	3 (+ +)1
					+
					4
Electrical connection, open cable	end. 4-wire – plug.	i-pin		Plug M8	Plug M12
	1	BN	1	3	
	2	WH	2	2 _ 4	2
	3	BU	3	++	/ + 4
	4	ВК	4	$\frac{1}{1}(+ +)_3$	3 (+ +) 1
					+
					4
Electrical connection, open cable	end, 5-wire – plug,	i-pin, M12	· · · · · · · · · · · · · · · · · · ·		Plug M12
-	-	BN	1		2
	-	WH	2		
	-	BU	3		1 2 (+) 1
	-	ВК	4		3 (+ + +) 1
	-	GY	5		5 [×] +
					4

¹⁾ To IEC 757



Connection technology, left	L3
Open end	50

Connection technology,	D1	D4	D5	L2	L4	H1	= ©1
right	Ø		Ø				
Straight plug	4.5	M8x1	10	41.1	23	-	9
	4.5	M12x1	15	54.5	23	-	13
Angled plug	4.5	M8x1	10	26.9	23	24	9
	4.5	M12x1	15	37.5	23	33.2	13

Connecting cables, open cable end

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g}	Part no.	Туре
Open cable end, 3-wire							
	Standard	1	Straight	Without inscription label holder	35	8091515	NEBU-LE3-K-1-N-M12G3
Open cable end, 5-wire	– plug, 5-pin, M12						
	Standard	1	Straight	-	41	569840	NEBU-LE5-K-1-M12G5
Ordering data – Accesso	ries						
Designation						Part no.	Туре
Plugs							
	Plugs for self-asser	nbly				-	→ Internet: necu
						-	→ Internet: sea
Inscription labels							
Inscription labels 23 mm for holder, 34 pieces, in frame						541598	ASLR-L-423
Safety clip							
Prevents the screw-type lock from being released easily (without a tool), to be fastened securely to the cable						548068	NEAU-M12-GD

Connecting cable NEBU-M8 SIM-M8

- Connecting cable for connecting inputs/outputs
- Pre-assembled at one end, pre-assembled at both ends
- Cable lengths 0.1 ... 30 m
- 3 wires
- M8x1 socket, 3-pin



General technical data			
Туре		NEBU	SIM
Conforms to standard	Code -K-, code -E-	EN 61076-2-104	-
		EN 61076-2-101	-
		Wire colours and connection numbers to	-
		EN 60947-5-2	
	Code -R-	Wire colours and connection numbers to	-
		EN 60947-5-2	
		-	EN 61076-2-104
		-	EN 61984
Based on standard	Code -R-	EN 61076-2-104	-
Cable designation		With 2x inscription label holders	-
Degree of protection		IP65, IP68, IP69K	IP65, IP68
Note on degree of protection		In assembled state	-

Technical data – Electrical connection 1		
Туре	NEBU	SIM
Function	Field device side	Field device side
Design	Round	Round
Connection type	Socket	Socket
Cable outlet	Straight, angled	Straight, angled
Connection technology	M8x1, A-coded to EN 61076-2-104	M8x1, A-coded to EN 61076-2-104
Number of pins/wires	3	3
Assigned pins/wires	3	3
Type of mounting	Screw-type lock	_

Technical data – Electrical cor	nponents			
Туре			NEBU	SIM
Operating voltage range	Without switching status indication	[V DC]	0 60	0 60
		[V AC]	0 60	0 60
	With switching status indication	[V DC]	10 30	10 30
	Electrical connection 2 M8x1, 4-pin	[V DC]	0 30	-
		[V AC]	0 30	-
Surge resistance	Connection technology not rotatable,	[kV]	1.5	1.5
	without switching status indication			
	Connection technology rotatable	[kV]	0.8	-
	With switching status indication	[kV]	0.8	0.8
Current rating at 40°C	Connection technology not rotatable	[A]	3	4
	Connection technology rotatable	[A]	0.5	-

Technical data – Cable					
Туре				NEBU	SIM
Cable characteristic		Code -K-		Standard	T-
		Code -E-		Suitable for energy chains	-
		Code -R-		Suitable for robot applications	-
				-	Standard
Cable testing conditions				Bending strength: to Festo standard	Bending strength: to Festo standard
				Test conditions on request	Test conditions on request
	Cable	Standard		Energy chain: 5 million cycles, bending	Energy chain: 5 million cycles, bending
	characteristic			radius 75 mm	radius 75 mm
		Suitable for energy chair	ıs	Energy chain: 5 million cycles, bending	-
				radius 28 mm	
		Suitable for robot applic	ations	Energy chain: 5 million cycles, bending	-
				radius 28 mm	
				Torsional resistance more than	-
				300000 cycles, ±270°/0.1 m	
Cable diameter	Without switchi	ng status indication	[mm]	4.5	4.5
	With switching	status indication	[mm]	3.4	-
Cable diameter tolerance			[mm]	±0.1	-
Cable composition			[mm ²]	3x 0.25	3x 0.25
Conductor nominal cross section			[mm ²]	0.25	0.25

Technical data – Electrical o	onnection 2					
Туре	NEBU				SIM	
Function		Controller side				
Connection type		Cable	Plug		Plug	Cable
Design		-	Round		Round	-
Cable outlet	-	Straight, a	angled	Straight, angled	1-	
Connection technology	Open end	M8x1, A-c EN 61076		M12x1, A-coded to EN 61076-2-101	Open end	
Number of pins/wires		3	3	4	3	3
Assigned pins/wires	Without switching status indication	3	3	3	3	3
	With switching status indication	3	3	3	3	-
Type of mounting		-	Screw-typ	e lock	Screw-type lock	-

To EU RoHS Directive

3

To EU Low-Voltage Directive

Data sheet

Materials			
Туре		NEBU	SIM
Housing		TPE-U(PUR)	TPE-U(PU)
Housing colour		Black	Black
Cable sheath		TPE-U(PUR)	TPE-U(PU)
Cable sheath colour		Grey	Grey
Insulating sheath		PP	PP
Wire insulation colour code		-	Blue, brown, black
Screw-type lock		Nickel-plated brass	Nickel-plated brass
Note on materials		RoHS-compliant	RoHS-compliant
		Free of copper and PTFE	-
		Halogen-free	Halogen-free
		Free of phosphoric acid ester	Free of phosphoric acid ester
Special characteristics	Cable characteristic: standard, suitable for energy	Oil resistant	-
	chains, suitable for robot applications		
Operating and environmental cond	litions		
Туре		NEBU	SIM
Ambient temperature	Cable characteristic: standard [°C]	-25 +70	-25 +80
	Cable characteristic: suitable for energy [°C]	-25 +80	-
	chains, suitable for robot applications		
Ambient temperature with flexible	Cable characteristic: standard [°C]	-5 +70	-5 +80
cable installation	Cable characteristic: suitable for energy [°C]	-5 +80	-
	chains, suitable for robot applications		

2

3

To EU Low-Voltage Directive

All types

Without switching status indication

With switching status indication Electrical connection 2 M8x1, 4-pin

Corrosion resistance CRC¹⁾

conformity)2)

Pollution degree

CE marking (see declaration of

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Additional information www.festo.com/sp → Certificates.

Circuitry (socket view) Electrical connection 1	Pin	Wire colour ¹⁾	Pin	Electrical connection 2	
Electrical connection, socket, 3-pin, M8 - ope	en cable	end			
4	1	BN	-	_	
	3	BU	-		
3(0 0)1	4	ВК	-		
Electrical connection, socket, 3-pin, M8 – plu	g, 3-pin			Plug M8	Plug M12
4	1	BN	1	_	
	3	BU	3	4	
3(0 0)1	4	BK	4	1 (+)	9.
] 3(0 0)1				1 (+ +) 3	3(+ +)1
					+
					4
Electrical connection, socket, 3-pin, M8 – plu	g. 4-pin	. M8		Plug M8	
4	1	BN	1		
7	-	-	2	++4	
3(0 0)1	3	BU	3	$\frac{1}{4} (+ +)_{2}$	
	4	BK	4	1 1 / // 3	

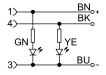
¹⁾ To IEC 757

Circuitry, switching status indication

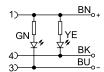
Display of code P, for PNP N/O contact

Display of code N, for NPN N/O contact



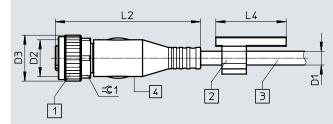


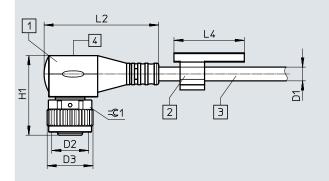




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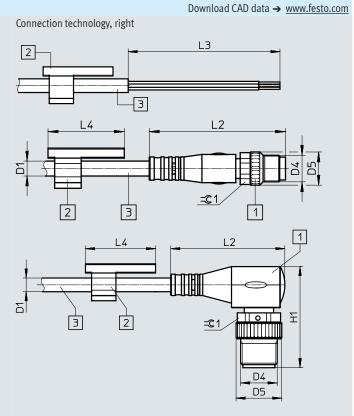
Connection technology, left





[1] Socket M8x1

[2] Inscription label holder Connection technology, D1 D2 D3 L2 L4 Н1 **=**©1 left Ø Ø NEBU Straight socket 4.5 M8x1 10 34.6 23 9 Angled socket M8x1 10 26.9 23 17 9 9 Rotatable socket 4.5 M8x1 20.9 23 10 16.3 NEBU with display M8x1 Straight socket 3.4 10 34.6 23 9 Angled socket 3.4 M8x1 10 26.9 23 17 9 SIM Straight socket 4.5 M8x1 10 34.6 9 Angled socket 4.5 M8x1 10 26.9 9 17



- [3] Cable, length 0.1 ... 30 m depending on the order
- [4] Display field with version P, N

Connection technology,	D1	D4	D5	L2	L3	L4	H1	= ©1
right	Ø		Ø					
NEBU								
Open end	4.5	-	-	-	50	23	-	-
Straight plug	4.5	M8x1	10	41.1	-	23	-	9
	4.5	M12x1	15	54.5	-	23	-	13
Angled plug	4.5	M8x1	10	26.9	-	23	24	9
	4.5	M12x1	15	37.5	-	23	33.2	13
NEBU with display								
Straight plug	3.4	M8x1	10	41.1	-	23	-	9
	3.4	M12x1	15	54.5	-	23	-	13
Angled plug	3.4	M8x1	10	26.9	-	23	24	9
	3.4	M12x1	15	37.5	-	23	33.2	13
SIM								
Open end	4.5	_	-	_	50	_	-	_

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре
Socket, 3-pin, M8 – ope							
	Standard	2.5	Straight	_	64	★ 541333	NEBU-M8G3-K-2.5-LE3
					-	159420	SIM-M8-3GD-2,5-PU
			Angled	-	64	★ 541338	NEBU-M8W3-K-2.5-LE3
					-	159422	SIM-M8-3WD-2,5-PU
				Rotatable socket	64	8001660	NEBU-M8R3-K-2.5-LE3
				For NPN N/O contact, switching	64	541336	NEBU-M8W3N-K-2.5-LE3
				status indication yellow, ready status indication green	-	159426	SIM-M8-3WD-2.5-NSL-PU
				For PNP N/O contact, switching	64	541337	NEBU-M8W3P-K-2.5-LE3
				status indication yellow, ready status indication green	-	159424	SIM-M8-3WD-2.5-PSL-PU
		5	Straight	_	123	★ 541334	NEBU-M8G3-K-5-LE3
						159421	SIM-M8-3GD-5-PU
			Angled	-	123	★ 541341	NEBU-M8W3-K-5-LE3
					-	159423	SIM-M8-3WD-5-PU
				Rotatable socket	123	8001661	NEBU-M8R3-K-5-LE3
				For NPN N/O contact, switching	123	541339	NEBU-M8W3N-K-5-LE3
				status indication yellow LED,	-	159427	SIM-M8-3WD-5-NSL-PU
				ready status indication green LED			
				For PNP N/O contact, switching	123	541340	NEBU-M8W3P-K-5-LE3
				status indication yellow LED, ready status indication green LED	-	159425	SIM-M8-3WD-5-PSL-PU
		10	Straight	-	242	★ 541332	NEBU-M8G3-K-10-LE3
		10	Straight	_	-	192964	SIM-M8-3GD-10-PU
			Angled	-	242	★ 541335	NEBU-M8W3-K-10-LE3
			7 ingica	_	-	192965	SIM-M8-3WD-10-PU
	Suitable for use	5	Straight	-	123	569843	NEBU-M8G3-E-5-LE3
	with energy chains	10	Straight	-	242	569842	NEBU-M8G3-E-10-LE3
	Suitable for robot	2.5	Straight	-	64	569845	NEBU-M8G3-R-2.5-LE3
	applications		Angled	-	64	569847	NEBU-M8W3-R-2.5-LE3
		5	Straight	_	123	569846	NEBU-M8G3-R-5-LE3
		10	Straight	-	242	8003129	NEBU-M8G3-R-10-LE3
Socket, 3-pin, M8 – plu	g, 3-pin, M8				•		
	Standard	0.5	Straight – straight	_	22	★ 541346	NEBU-M8G3-K-0.5-M8G3
		1	1		33	★ 541347	NEBU-M8G3-K-1-M8G3
STATE OF THE PARTY		1.5	1		45	8003133	NEBU-M8G3-K-1.5-M8G3
Socket, 3-pin, M8 – piu		2	1		57	8003131	NEBU-M8G3-K-2-M8G3
		2.5	1		69	★ 541348	NEBU-M8G3-K-2.5-M8G3
		3	1		80	8003132	NEBU-M8G3-K-3-M8G3
		5	1		128	★ 541349	NEBU-M8G3-K-5-M8G3
		10	1		246	569844	NEBU-M8G3-K-10-M8G3
	Suitable for use with energy	3.5	Straight – straight	-	92	559364	NEBU-M8G3-E-3.5-M8G3
	chains						

Festo core product range

Generally ready for dispatch from the factory within 24 hours

Generally ready for dispatch from the factory within 5 days

Ordering data								
	Cable characteristic	Cable length [m]	Outlet direction	Special fo	eatures	Product weight [g]	Part no.	Туре
Socket, 3-pin, M8 – plu								
	Standard	2.5	Straight – straight	-		69	554037	NEBU-M8G3-K-2.5-M8G4
Socket, 3-pin, M8 – plu	ıg, 3-pin, M12							
	Standard	0.5	Straight – straight	-		29	8000209	NEBU-M8G3-K-0.5-M12G3
OF THE STATE OF TH		1	Straight – straight	Without i	nscription label holder	39	8091512	NEBU-M8G3-K-1-N-M12G3
Ordering data – Access Designation	ories						Part no.	Туре
Plugs								
	Plugs for self-ass	embly					-	→ Internet: necu
							-	→ Internet: sea
Inscription labels								
Inscription labels 23 mm for holder, 34 pieces, in frame						541598	ASLR-L-423	
Safety clip								
			from being released eas	sily (without			548067	NEAU-M8-GD
	a tool), to be fast	ened secure	ly to the cable		For M12		548068	NEAU-M12-GD

Connecting cable NEBU-M8 SIM-M8

- Connecting cable for connecting inputs/outputs
- Pre-assembled at one end, pre-assembled at both ends
- Cable lengths 0.1 ... 30 m
- 2, 3 or 4 wires
- M8x1 socket, 4-pin



General technical data			
Туре		NEBU	SIM
Conforms to standard	Code -K-, code -E-	EN 61076-2-104	-
		EN 61076-2-101	-
		Wire colours and connection numbers to	-
		EN 60947-5-2	
	Code -R-	Wire colours and connection numbers to	-
		EN 60947-5-2	
		-	EN 61076-2-104
		-	EN 61984
Based on standard	Code -R-	EN 61076-2-104	-
Cable designation		With 2x inscription label holders	-
Degree of protection		IP65, IP68, IP69K	IP65, IP68
Note on degree of protection		In assembled state	-

Technical data – Electrical connection 1						
Туре	NEE	BU			SIM	
Function	Fiel	eld device sid	le		Field device side	
Design	Rou	und			Round	
Connection type	Soc	cket			Socket	
Cable outlet	Stra	raight, angle	d		Straight, angled	
Connection technology	M8	3x1, A-coded	to EN 61076-2	-104	M8x1, A-coded to EN 61076-2-104	
Number of pins/wires	4				4	
Assigned pins/wires	2		3	4	4	
Type of mounting	Scre	rew-type lock	(-	

Technical data – Electrical components							
Туре			NEBU	SIM			
Operating voltage range	Without switching status indication	[V DC]	0 30	0 30			
		[V AC]	0 30	0 30			
	With switching status indication	[V DC]	21.6 30	-			
		[V AC]	21.6 30	-			
Surge resistance		[kV]	0.8	0.8			
Current rating at 40°C		[A]	3	4			

Technical data – Cable				NEBU		SIM
Туре	:					SIN
Cable characteristic		Code -K-		Standard		-
		Code -E-		Suitable for energy o	hains	-
		Code -R-		Suitable for robot ap	plications	-
				-		Standard
Cable testing conditions				Bending strength: to	Festo standard	Bending strength: to Festo standard
				Test conditions on re	equest	Test conditions on request
	Cable	Standard		Energy chain: 5 milli	on cycles, bending	Energy chain: 5 million cycles, bending
	characteristic			radius 75 mm		radius 75 mm
		Suitable for energy chair	ıs	Energy chain: 5 milli	on cycles, bending	-
				radius 28 mm		
		Suitable for robot application	ations	Energy chain: 5 milli	on cycles, bending	-
				radius 28 mm		
				Torsional resistance	more than	-
				300000 cycles, ±270	0°/0.1 m	
Cable diameter	Without switchi	ng status indication	[mm]	4.5		4.5
	With switching	status indication	[mm]	3.4		-
Cable diameter tolerance			[mm]	±0.1		-
Cable composition	Without switchi	ng status indication	[mm ²]	3x 0.25	4x 0.25	4x 0.25
	With switching	status indication	[mm ²]	2x 0.25		-
Conductor nominal cross section		,	[mm ²]	0.25		0.25

Technical data – Electrical connection 2							
Туре		NEBU				SIM	
Function		Controller side					
Connection type		Cable	Plug		Plug	Cable	
Design		-	Round		Round	-	
Cable outlet		-	Straight, ang	led	Straight, angled	-	
Connection technology		Open end	M8x1, A-code EN 61076-2-		M12x1, A-coded to EN 61076-2-101	Open end	
Number of pins/wires		4	3 4		4	4	
Assigned pins/wires	Without switching status indication	4	3 4		4	4	
	With switching status indication	2	3 4		2	-	
Type of mounting	-	Screw-type lo	ck	Screw-type lock	-		

Materials			
Туре		NEBU	SIM
Housing		TPE-U(PUR)	TPE-U(PU)
Housing colour		Black	Black
Cable sheath	Cable characteristic: standard, suitable for energy chains, suitable for robot applications	TPE-U(PUR)	TPE-U(PU)
Cable sheath colour		Grey	Grey
Insulating sheath	Cable characteristic: suitable for energy chains, suitable for robot applications, standard	PP	PP
Wire insulation colour code		-	Blue, brown, black, white
Screw-type lock		Nickel-plated brass	Nickel-plated brass
Note on materials	All types	RoHS-compliant	RoHS-compliant
		Free of copper and PTFE	-
	Cable characteristic: standard, suitable for energy chains,	Halogen-free	Halogen-free
	suitable for robot applications	Free of phosphoric acid ester	Free of phosphoric acid ester
Special characteristics	Cable characteristic: standard, suitable for energy chains, suitable for robot applications	Oil resistant	-

Operating and environmental cond	litions			
Туре			NEBU	SIM
Ambient temperature	Cable characteristic: standard	[°C]	-25 +70	-25 +80
	Cable characteristic: suitable for energy	[°C]	-25 +80	-
	chains, suitable for robot applications			
Ambient temperature with flexible	Cable characteristic: standard	[°C]	-5 +70	-5 +80
cable installation	Cable characteristic: suitable for energy	[°C]	-5 +80	-
	chains, suitable for robot applications			
Corrosion resistance CRC ¹⁾			2	2
CE marking (see declaration of			-	To EU RoHS Directive
conformity) ²⁾				
	Electrical connection 2:		To EU Low-Voltage Directive	-
	• Plug M8, 3-pin			
	 Plug M12, 3-pin 			
	 Plug M12, 4-pin 			
Pollution degree			3	3

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

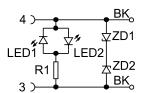
²⁾ Additional information www.festo.com/sp \rightarrow Certificates.

Circuitry (socket view)									
Socket	Pin	Wire colour ¹⁾	Pin	Plug					
Electrical connection, socket, 4-pin, M8 – ope	Electrical connection, socket, 4-pin, M8 – open cable end								
4 - 2	1	BN	-	_					
7007	2	WH	-						
3(0 0)1	3	BU	-						
	4	BK	-						
Electrical connection, socket, 4-pin, M8 – plu	a 2 nin	I		Plug M8					
Electrical connection, socker, 4-pm, mo - plu		BN	1	riug Mo					
4 2	1		1	4					
	2	WH	-	+					
3\\circ \circ \frac{1}{1}	3	BU	3	1 (+ +) 3					
	4	ВК	4						
Electrical connection, socket, 4-pin, M8 – plu	g, 4-pin			Plug M8	Plug M12				
4 - 2	1	BN	1		2 + 0				
7007	2	WH	2	2 _ 4					
3(0 0)1	3	BU	3	7++					
3 91	4	BK	4	$\frac{1}{1}(+ +)_3$	3 (+ +) 1				
					+				
					4				
Electrical connection, socket, 4-pin, M8, with	display	of code L		Plug M8, 3-pin	Plug M12, 3-pin				
4 - 2	1		1						
4002	2	-	2	4					
3(0,0)	3	ВК	3	/ + \					
3 91	4	ВК	4	(+ +)3	3 (+ +)				
					+				
					4				
				Plug M8, 4-pin	Open cable end				
					-				
				(+ +)					
				$(+ +)_3$					
			I						

¹⁾ To IEC 757

Circuitry, switching status indication

Display of code L



巾

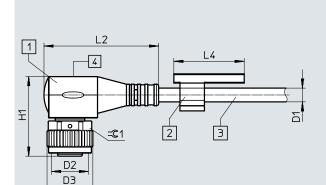
Dimensions Connection technology, left L2 L4

4

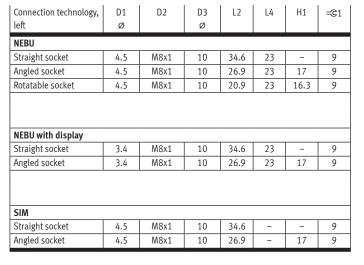
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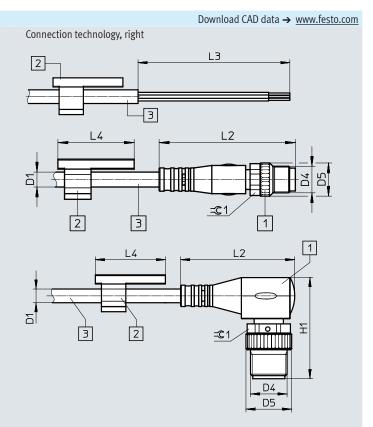
3

<u>=C1</u>



- [1] Socket M8x1
- [2] Inscription label holder





- [3] Cable, length 0.1 ... 30 m depending on the order
- [4] Display field with version L

Connection technology, right	D1 Ø	D4	D5 Ø	L2	L3	L4	H1	= ©1
NEBU								
Open end	4.5	-	-	-	50	23	-	-
Straight plug	4.5	M8x1	10	41.1	-	23	-	9
	4.5	M12x1	15	54.5	-	23	-	13
Angled plug	4.5	M8x1	10	26.9	-	23	24	9
	4.5	M12x1	15	37.5	-	23	33.2	13
NEBU with display								
Straight plug	3.4	M8x1	10	41.1	-	23	-	9
	3.4	M12x1	15	54.5	-	23	-	13
Angled plug	3.4	M8x1	10	26.9	-	23	24	9
	3.4	M12x1	15	37.5	-	23	33.2	13
SIM								
Open end	4.5	-	-	-	50	-	-	-

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре
Socket, 4-pin, M8 – ope	en cable end						
	Standard	2.5	Straight	-	72	541342	NEBU-M8G4-K-2.5-LE4
					-	158960	SIM-M8-4GD-2,5-PU
			Angled	_	72	541344	NEBU-M8W4-K-2.5-LE4
					-	158962	SIM-M8-4WD-2,5-PU
		5	Straight	_	138	541343	NEBU-M8G4-K-5-LE4
					-	158961	SIM-M8-4GD-5-PU
			Angled	_	138	541345	NEBU-M8W4-K-5-LE4
					-	158963	SIM-M8-4WD-5-PU
		9	Straight	_	245	8003130	NEBU-M8G4-K-9-LE4
		10	Angled	_	272	575833	NEBU-M8W4-K-10-LE4
Socket, 4-pin, M8 – plu	g 4-nin M8						
Socret, 7 pm, mo 3 ptu	Standard	2.5	Straight – straight	_	76	554035	NEBU-M8G4-K-2.5-M8G4
	Suitable for robot	2	Straight – straight		63	556946	NEBU-M8G4-R-2-M8G4
	applications		Straight Straight			330340	NESO MOC4 N 2 MOC4
Socket, 4-pin, M8 – plu							
	Standard	1	Straight – straight	Without inscription label holder	42.5	8091513	NEBU-M8G4-K-1-N-M12G4
Ordering data – Accesso Designation	ories					Part no.	Туре
Plugs							
	Plugs for self-asse	mbly				-	→ Internet: necu
					-	→ Internet: sea	
Inscription labels							
	Inscription labels 2	23 mm for	holder, 34 pieces, in fra		541598	ASLR-L-423	
Safety clip							
	Prevents the screw	-type lock	from being released eas	ily (without a tool), to be fastened	For M8	548067	NEAU-M8-GD
	securely to the cab	le			For M12	548068	NEAU-M12-GD
~							

Connecting cable SIM-M12

- Connecting cable for connecting inputs/outputs
- Pre-assembled at one end
- Cable length 3 m
- 3 wires
- M12x1 socket, 4-pin



General technical data			
Conforms to standard	EN 61076-2-101		
	EN 61984		
	Wire colours and connection numbers to EN 60947-5-2		
Cable designation	Without inscription label holder		
Degree of protection	IP65, IP67		
Note on degree of protection	In assembled state		

Technical data – Electrical connection 1					
Function	Field device side				
Design	Round				
Connection type	Socket				
Cable outlet	Straight, angled				
Connection technology	M12x1, A-coded to EN 61076-2-101				
Number of pins/wires	4				
Assigned pins/wires	3				
Type of mounting	Screw-type lock				

Technical data – Electrical components		
Operating voltage range	[V DC]	0 70
	[V AC]	0 45
Surge resistance	[kV]	2.5
Current rating at 40°C	[A]	4

Technical data – Cable					
Cable characteristic			Resistant to welding spatter		
Cable testing conditions			Bending strength: to Festo standard		
			Test conditions on request		
			Energy chain: 5 million cycles, bending radius 75 mm		
Bending radius	Fixed cable installation	[mm]	≥28		
	Flexible cable installation	[mm]	≥55		
Cable diameter		[mm]	5.2		
Cable diameter tolerance		[mm]	±0.3		
Cable composition		[mm ²]	3x 0.5		
Conductor nominal cross section		[mm ²]	0.5		

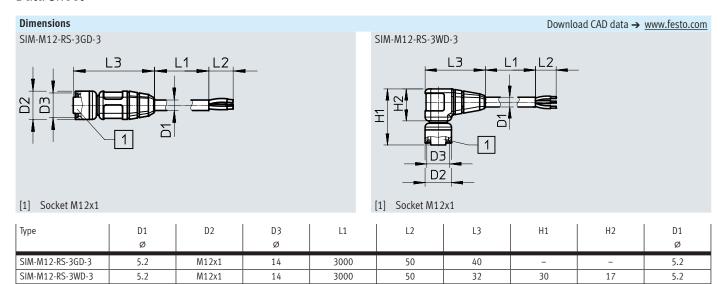
Technical data – Electrical connection 2						
Function	Controller side					
Connection type	Cable					
Connection technology	Open end					
Number of pins/wires	3					
Assigned pins/wires	3					
Wire ends	Wire end sleeve					

Materials	
Housing	TPE-U(PUR)
Housing colour	Black
Screw-type lock	Chrome-plated brass
Cable sheath	PVC, irradiated
Cable sheath colour	Orange
Insulating sheath	PVC, irradiated
Pin contacts	Gold-plated brass

Operating and environmental conditions		
Ambient temperature	[°C]	-25 +80
Ambient temperature with flexible cable installation	[°C]	0+80
Pollution degree		3

Circuitry (socket view)				
Socket	Pin Wir	ire colour ¹⁾	Pin	Plug
Electrical connection, socket, 4-pin,	M12 – open cable end	d		
	1	BN	-	_
	2	-	-	
1 (0 0) 3	3	BU	-	
	4	ВК	-	
4				

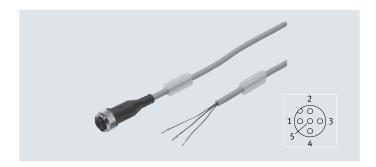
¹⁾ To IEC 757



Ordering data	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight	Part no.	Туре
Socket, 4-pin, M12 - ope	en cable end						
	Resistant to weld-	3	Straight	Resistant to welding spatter	-	30450	SIM-M12-RS-3GD-3
	ing spatter		Angled	Resistant to welding spatter	_	30451	SIM-M12-RS-3WD-3

Connecting cable NEBU-M12 SIM-M12

- Connecting cable for connecting inputs/outputs
- Pre-assembled at one end, pre-assembled at both ends
- Cable lengths 0.1 ... 30 m
- 2, 3, 4 or 5 wires
- M12x1, 5-pin



General technical data			
Туре		NEBU	SIM
Conforms to standard	Conforms to standard		EN 61076-2-101
		EN 61076-2-104	-
		Wire colours and connection numbers to	-
		EN 60947-5-2	
		-	EN 61984
Cable designation		With 2x inscription label holders	-
	NEBU-M12G5Q8N-M12G5	Without inscription label holder	-
	NEBU-M12G5-K-1-N-M12G3	Without inscription label holder	-
Degree of protection		IP65, IP68, IP69K	IP65, IP68
Note on degree of protection		In assembled state	-

Technical data – Electrical connection 1								
Туре	NEBU			SIM				
Function	Field device	ce side			Field device side			
Design	Round				Round			
Connection type	Socket				Socket			
Cable outlet	Straight, a	ingled			Straight, angled			
Connection technology	M12x1, A-	coded to EN	61076-2-1	01	M12x1, A-coded			
Number of pins/wires	5				5			
Assigned pins/wires	2	3	4	5	-			
Type of mounting	Screw-type lock				-			

			Without switching status indication	With switching status indication
Operating voltage range	Electrical connection 2	[V DC]	0 60	10 30
	Plug M8, 3-pin	[V AC]	0 60	-
	Electrical connection 2	[V DC]	0 30	10 30
	Plug M8, 4-pin	[V AC]	0 30	_
	Electrical connection 2	[V DC]	0 250	10 30
	Plug M12, 3-pin	[V AC]	0 250	_
	Electrical connection 2	[V DC]	0 250	10 30
	Plug M12, 4-pin	[V AC]	0 250	_
	Electrical connection 2	[V DC]	0 60	_
	Plug M12, 5-pin	[V AC]	0 60	_
	Electrical connection 2	[V DC]	0 250	10 30
	Open end, 3-wire	[V AC]	0 250	-
	Electrical connection 2	[V DC]	0 250	10 30
	Open end, 4-wire	[V AC]	0 250	-
	Electrical connection 2	[V DC]	0 60	-
	Open end, 5-wire	[V AC]	0 60	-
Gurge resistance	Electrical connection 2	[kV]	1.5	0.8
	Plug M8, 3-pin			
	Electrical connection 2	[kV]	0.8	0.8
	Plug M8, 4-pin			
	Electrical connection 2	[kV]	2.5	0.8
	Plug M12, 3-pin			
	Electrical connection 2	[kV]	2.5	0.8
	Plug M12, 4-pin			
	Electrical connection 2	[kV]	1.5	-
	Plug M12, 5-pin			
	Electrical connection 2	[kV]	2.5	0.8
	Open end, 3-wire			
	Electrical connection 2	[kV]	2.5	0.8
	Open end, 4-wire			
	Electrical connection 2	[kV]	1.5	-
	Open end, 5-wire			
urrent rating at 40°C		[A]	4	4
	Electrical connection 2	[A]	3	-
	Plug M8			

Technical data – Cable												
Туре				NEBU	NEBU					SIM		
Cable characteristic		Code -K-	_	Standard	Standard				-			
		Code -E-	Code -E-		or energy ch	nains			-			
		Code -R-	Code -R-		or robot app	olications			-			
				-					Standard			
Cable testing conditions				Bending s	strength: to	Festo stand	ard		Bending s	strength: to	Festo	
							standard					
			Test condi	Test conditions on request				Test conditions on request				
	Cable charac-	Standard	Energy ch	Energy chain: 5 million cycles, bending radius 75 mm				, ,				
	teristic								bending radius 75 mm			
		Suitable for energy chains	Energy ch	ain: 5 millio	n cycles, be	ending radiu	ıs 28 mm	_				
			Code	Energy chain: 5 million cycles, bending radius 75 mm			-					
			-Q8N-									
		Suitable for robot applica	tions	Energy chain: 5 million cycles, bending radius 28 mm				-				
				Torsional resistance more than 300000 cycles,				-				
				±270°/0.3	1 m							
Cable diameter			[mm]	4.5					4.5			
		Code -Q8N-	[mm]	7					-			
Cable diameter tolerance			[mm]	±0.1					-			
Cable composition			[mm ²]	-	2x 0.25	3x 0.25	4x 0.25	5x 0.25	3x 0.25	4x 0.25	5x 0.25	
		Code -Q8N-	[mm ²]	5x 1	-	-	-	-	-	-	-	
Conductor nominal cross section			[mm ²]	-	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
		Code -Q8N-	[mm ²]	1	-	-	-	-	-	-	-	

Technical data – Electrical connection 2												
Туре	NEBU	NEBU							SIM			
Function		Contro	ller side	!								
Connection type					Plug		Plug			Cable		
Design			- Round			Round	Round		-			
Cable outlet			- Straight, angled			ngled	Straight, angled		_			
Connection technology		Open	Open end			M8x1, A-coded to		M12x1, A-coded to		Open end		
			EN 61076-2-104			EN 610	EN 61076-2-101					
Number of pins/wires		3	4	5	3	4	3	4	5	3	4	5
Assigned pins/wires	Without switching status indication	3	4	5	3	4	3	4	5	-	-	-
	With switching status indication	3	4	-	3	4	3	4	-	-	-	-
Type of mounting		-	-	-	Screw-type	lock				-	-	-

Materials		
Туре	NEBU	SIM
Housing	TPE-U(PUR)	TPE-U(PU)
Housing colour	Black	Black
Cable sheath	TPE-U(PUR)	TPE-U(PU)
Cable sheath colour	Grey	Grey
Insulating sheath	PP	PP
Wire insulation colour code	-	Blue, brown, black
	-	Blue, brown, black, white
	-	Blue, brown, grey, black, white
Screw-type lock	Nickel-plated brass	Nickel-plated brass
Note on materials	RoHS-compliant	RoHS-compliant
	Free of copper and PTFE	-
	Halogen-free	Halogen-free
	Free of phosphoric acid ester	Free of phosphoric acid ester
Special characteristics	Oil resistant	-

Operating and environmental cond	litions		NEBU	SIM
Ambient temperature	Cable characteristic: standard [°C]		-25 +70	-25 +80
	Cable characteristic: suitable for energy	[°C]	-25 +80	-
	chains, suitable for robot applications			
Ambient temperature with flexible	Cable characteristic: standard	[°C]	-5 +70	-5 +80
cable installation	Cable characteristic: suitable for energy	[°C]	-5 +80	-
	chains, suitable for robot applications			
Corrosion resistance CRC ¹⁾			2	2
CE marking (see declaration of	Without switching status indication		To EU Low-Voltage Directive	To EU Low-Voltage Directive
conformity) ²⁾	With switching status indication		_	-
	With plug M8, 4-pin		-	_
			To EU RoHS Directive	To EU RoHS Directive
Pollution degree			3	3

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

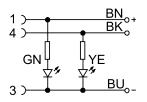
Additional information www.festo.com/sp → Certificates.

Circuitry (socket view)								
Socket	Pin	Wire colour ¹⁾			Pin	Plug		
Electrical connection, socket, 5-pin, M12 – o	pen cable	end				Open cable end		
2		3-wire	4-wire	5-wire		-		
	1	BN	BN	BN	-			
1(0.00)3	2	-	WH	WH	-			
	3	BU	BU	BU	-			
5 4	4	BK	BK	BK	-			
4	5	-	_	GY	-			
Electrical connection, socket, 5-pin, M12 – c	able, 2-wi	re – plug, 4-pin				Plug M8		
	1		BN		1	2		
	2		-		-	++		
1(000)3	3		BU		2	1 (+ +)		
	4		-		-			
	5		-		-			
Electrical connection, socket, 5-pin, M12 – c	able. 3-wi	re - plug, 3-pin/4-pin				Plug M8	Plug M12	
, ,,,,	1	1 0/-1 /-1	BN		1	4	Ü	
	2		-		-		3 (+ +)1	
1(000)3	3		BU		3	1 (+ +)3		
	4		BK		4	1 (+ +) 3		
4	5		-		-		\	
						4		
						(+ +)-		
						1 + +/3		
Electrical connection, socket, 5-pin, M12 - p	lug, 4-pin				,	Plug M8	Plug M12	
2	1		BN		1	2 4	2	
00	2		WH		2	(+ +\	+ 0	
1(000)3	3		BU		3	1 + +/3	$ 3(+ +)_1 $	
	4		BK		4		\ + /	
4	5		-		-		4	
-								
Electrical connection, socket, 5-pin, M12 - p	Electrical connection, socket, 5-pin, M12 – plug, 5-pin							
2	1		BN		1	2		
50	2		WH		2			
1(0.00)3	3		BU		3	_	$\frac{1}{3}(+++)_{1}$	
-X07	4		BK		4	_	_\/+ //	
5 4	5		GY		5		5 4	

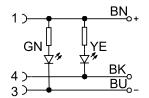
¹⁾ To IEC 757

Circuitry, switching status indication

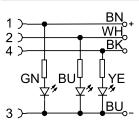
Display of code -P-



Display of code N

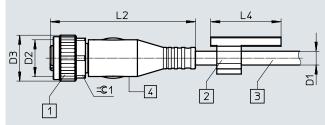


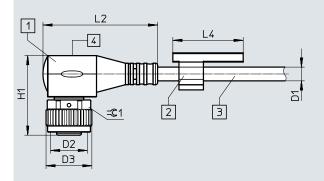
Display of code -P2



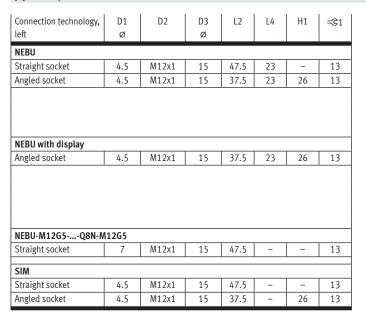
Dimensions

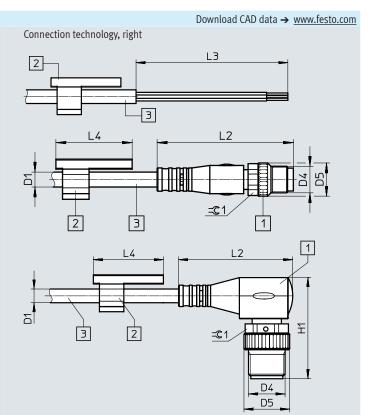
Connection technology, left





- [1] Socket M12x1
- [2] Inscription label holder





- [3] Cable, length 0.1 ... 30 m depending on the order
- [4] Display field with version P, N or P2

Connection technology,	D1	D4	D5	L2	L3	L4	H1	= ©1
right	Ø		Ø					
NEBU								
Open end	4.5	-	-	-	50	23	-	-
Straight plug	4.5	M8x1	10	41.1	-	23	-	9
	4.5	M12x1	15	54.5	-	23	-	13
Angled plug	4.5	M8x1	10	26.9	-	23	24	9
	4.5	M12x1	15	37.5	-	23	33.2	13
NEBU with display								
Open end	4.5	-	-	-	50	23	-	_
Straight plug	4.5	M8x1	10	41.1	-	23	-	9
	4.5	M12x1	15	54.5	-	23	-	13
Angled plug	4.5	M8x1	10	26.9	-	23	24	9
	4.5	M12x1	15	37.5	-	23	33.2	13
NEBU-M12G5Q8N-N	112G5							
Straight plug	7	M12x1	15	54.5	-	-	_	13
SIM								
Open end	4.5	-	-	-	50	-	-	-

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре
Socket, 5-pin, M12 – o	pen cable end, 3-wi	ire					
	Standard	2.5	Straight	-	69	★ 541363	NEBU-M12G5-K-2.5-LE3
					-	159428	SIM-M12-3GD-2,5-PU
				Switching status indication, for PNP N/O contact	70	541366	NEBU-M12W5P-K-2.5-LE3
			Angled	-	70	541367	NEBU-M12W5-K-2.5-LE3
					-	159430	SIM-M12-3WD-2,5-PU
				Switching status indication, for NPN N/O contact	70	541365	NEBU-M12W5N-K-2.5-LE3
				For PNP N/O contact, switching status indication yellow, ready status indication green	-	159432	SIM-M12-3WD-2.5-PSL-PU
		5	Straight	-	128	★ 541364	NEBU-M12G5-K-5-LE3
					-	159429	SIM-M12-3GD-5-PU
			Angled	-	129	541370	NEBU-M12W5-K-5-LE3
					-	159431	SIM-M12-3WD-5-PU
				Switching status indication, for NPN N/O contact	130	541368	NEBU-M12W5N-K-5-LE3
				Switching status indication, for PNP N/O contact	130	541369	NEBU-M12W5P-K-5-LE3
				For PNP N/O contact, switching status indication yellow, ready	-	159433	SIM-M12-3WD-5-PSL-PU
				status indication green			
Socket, 5-pin, M12 – o	pen cable end, 4-wi	ire					
	Standard	2.5	Straight	-	77	★ 550326	NEBU-M12G5-K-2.5-LE4
			Angled	-	78	550325	NEBU-M12W5-K-2.5-LE4
		5	Straight	-	143	★ 541328	NEBU-M12G5-K-5-LE4
					-	164259	SIM-M12-4GD-5-PU
			Angled	-	144	541329	NEBU-M12W5-K-5-LE4
					-	164258	SIM-M12-4WD-5-PU
		7	Straight	-	197	8003134	NEBU-M12G5-K-7-LE4
		10	Angled	-	278	569841	NEBU-M12W5-K-10-LE4
Socket, 5-pin, M12 – o	pen cable end. 5-wi	ire					
	Standard	2.5	Straight		78	541330	NEBU-M12G5-K-2.5-LE5
					-	175715	SIM-M12-5GD-2,5-PU
	//		Angled	_	79	567843	NEBU-M12W5-K-2.5-LE5
		5	Straight	-	146	541331	NEBU-M12G5-K-5-LE5
					-	175716	SIM-M12-5GD-5-PU
			Angled	-	147	567844	NEBU-M12W5-K-5-LE5
		10	Straight	_	283	554038	NEBU-M12G5-K-10-LE5
			-				

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре
Socket, 5-pin, M12 – pi	ug, 4-pin, M8						
	Standard	2.5	Straight – straight	-	81	554036	NEBU-M12G5-K-2.5-M8G4
	Suitable for use		Straight – straight	Cable, 2-wire	74	554034	NEBU-M12G5-E-2.5-W2-M8G4-V1
05)	with energy			Cable, 3-wire	74	554033	NEBU-M12G5-E-2.5-W3-M8G4-V2
	chains						
Socket, 5-pin, M12 – p	ug, 3-pin, M12						
	Standard	1	Straight – straight	Without inscription label holder	44	8091511	NEBU-M12G5-K-1-N-M12G3
Socket, 5-pin, M12 – p	ug, 4-pin, M12						
	Standard	0.5	Straight – straight	-	36	8000208	NEBU-M12G5-K-0.5-M12G4
Socket, 5-pin, M12 – p	ug, 5-pin, M12						
	Standard	0.5	Straight – angled	-	37	8003617	NEBU-M12G5-K-0.5-M12W5
			Angled – angled	-	38	570733	NEBU-M12W5-K-0.5-M12W5
		2	Straight – angled	-	77	8003618	NEBU-M12G5-K-2-M12W5
			Angled – angled	-	78	570734	NEBU-M12W5-K-2-M12W5
	Suitable for use with energy	5	Straight – straight	Conductor nominal cross section 1 mm ²	158	574321	NEBU-M12G5-E-5-Q8N-M12G5
	chains	7.5	Straight – straight	Conductor nominal cross section 1 mm ²	227	574322	NEBU-M12G5-E-7.5-Q8N-M12G5
		10	Straight – straight	Conductor nominal cross section 1 mm ²	295	574323	NEBU-M12G5-E-10-Q8N-M12G5
Ordering data – Access	ories		•				
Designation						Part no.	Туре
Plugs							
	Plugs for self-asse	mbly				-	→ Internet: necu
						-	→ Internet: sea
nscription labels	T					541598	
	Inscription labels 23 mm for holder, 34 pieces, in frame						ASLR-L-423
Safety clip	-						
	Prevents the screw	v-type lock	from being released ea:	sily (without a tool), to be fastened	For M8	548067	NEAU-M8-GD
	securely to the cal		-	•	For M12	548068	NEAU-M12-GD

Plug socket with cable NEBU-M12 SIM-M12-8 KM12-8

- Pre-assembled at one end, pre-assembled at both ends
- Cable lengths 2 m, 5 m, 10 m, 15 m, 20 m and 25 m
- 8 wires
- M12x1 socket, 8-pin



General technical data			
Туре	NEBU	SIM	KM12
Conforms to standard	EN 61076-2-101	EN 61076-2-101	-
	-	DIN 47100	-
Cable designation	Without inscription label	Without inscription label	Without inscription label
	holder	holder	holder
Degree of protection	IP67	IP67	IP67
Note on degree of protection	In assembled state	In assembled state	In assembled state

Technical data – Electrical connection 1	Technical data – Electrical connection 1									
Туре	NEBU	SIM	KM12							
Function	Field device side									
Design	Round									
Connection type	Socket									
Cable outlet	Angled Straight Straight									
Connection technology	M12x1, A-coded to EN 61076	-2-101								
Number of pins/wires	8									
Assigned pins/wires	8									
Type of mounting	Screw-type lock									
Connection frequency	- 50									

Technical data – Electrical components				
Туре		NEBU	SIM	KM12
Nominal operating voltage	[V DC]	-	-	30
Operating voltage range	[V DC]	0 30	0 30	0 30
	[V AC]	0 30	0 30	0 30
Surge resistance	[kV]	0.8	0.8	0.8
Current rating at 40°C	[A]	2	2	2

Technical data – Cable					
Туре			NEBU	SIM	KM12
Cable characteristic			Standard	Standard	Standard
			-	-	Test conditions on request
Bending radius	Fixed cable installation	[mm]	≥32	≥32	≥32
	Flexible cable installation	[mm]	≥66	≥66	≥64
Cable diameter		[mm]	6.3	6.3	6.2
Cable diameter tolerance		[mm]	±0.2	±0.2	±0.2
Cable composition	able composition [mm ²] 8x 0.25			·	
			Shielded		
Conductor nominal cross section	1	[mm ²]	0.25		

Technical data – Electrical connection 2				
Туре	NEBU	SIM	KM12	
Function	Controller side	Controller side		
Connection type	Cable	Cable	Plug	
Design	-	-	Round	
Cable outlet	-	-	Straight	
Connection technology	Open end	Open end	M12x1, A-coded to EN 61076-2-101	
Number of pins/wires	8	8	8	
Assigned pins/wires	8	8	8	
Wire ends	Tin-plated	Tin-plated		
Type of mounting	-	-	Screw-type lock	

Materials			
Туре	NEBU	SIM	KM12
Housing	TPE-U(PUR)	TPE-U(PUR)	-
Housing colour	-	-	-
Cable sheath	TPE-U(PUR)	TPE-U(PUR)	TPE-U(PUR)
Cable sheath colour	Grey	Grey	Grey
Insulating sheath	PP	PP	PP
	-	-	TPE-U(PUR)
Screw-type lock	-	Nickel-plated brass	Nickel-plated brass
	-	-	Chrome-plated brass
Union nut	Nickel-plated brass	-	-
Seals	NBR	-	NBR
Pin contacts	Gold-plated brass	Gold-plated bronze	Nickel-plated and
			gold-plated brass
Note on materials	RoHS-compliant	RoHS-compliant	RoHS-compliant

Operating and environmental conditions					
Туре			NEBU	SIM	KM12
Ambient temperature		[°C]	-25 +80	-25 +80	-25 +80
	With flexible cable installation	[°C]	-5 +80	-5 +80	0 +80
Corrosion resistance CRC ¹⁾			2	2	2
CE marking (see declaration of conformity) ²⁾		To EU EMC Directive	To EU EMC Directive	To EU EMC Directive	
Pollution degree			3	3	3

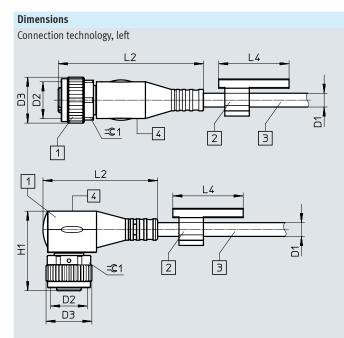
¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

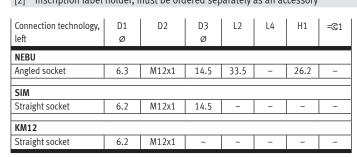
Additional information www.festo.com/sp → Certificates.

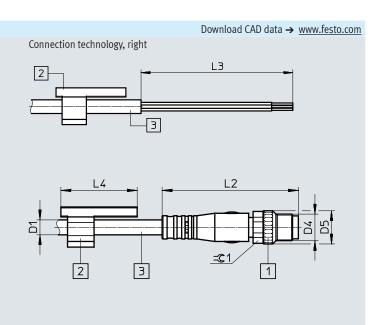
Circuitry (socket view)				
Socket	Pin	Wire colour ¹⁾	Pin	Plug
Electrical connection, socket, 8-pin, M12	– open cable er	d		
2	1	WH	-	_
8.003	2	BN	-	
10004	3	GN	-	
	4	YE	-	
7 6 5	5	GY	-	
6	6	RS	-	
	7	BU	-	
	8	RD	_	
Electrical connection, socket, 8-pin, M12	– plug, 8-pin			
2	1	WH	1	2
8,0003	2	BN	2	3 2 8
1000/4	3	GN	3	1 (++++1)
1000/4	4	YE	4] * (+++/) *
7 5	5	GY	5	5 7
6	6	RS	6	6
	7	BU	7	
	8	RD	8	
	Housing	Shielding	Housing	

¹⁾ To IEC 757



[1] Socket M12x1[2] Inscription label holder, must be ordered separately as an accessory





[3] Cable, length 2 m, 5 m, 10 m, 15 m, 20 m, 25 m depending on the order

Connection technology, right	D1 Ø	D4	D5 Ø	L2	L3	L4	= ©1
NEBU							
Open end	6.3	-	-	-	70	_	_
SIM							
Open end	6.2	-	-	-	70	-	-
KM12							
Straight plug	6.2	M12x1	14.6	-	-	-	-

Ordering data									
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре		
Socket, 8-pin, M12 – op	en cable end, 8-wir			1	101				
	Standard	2	Angled	-	125	542256	NEBU-M12W8-K-2-N-LE8		
			Straight	_	-	525616	SIM-M12-8GD-2-PU		
		5	Angled	_	292	542257	NEBU-M12W8-K-5-N-LE8		
			Straight	_	343	525618	SIM-M12-8GD-5-PU		
		10	Angled		570	570007	NEBU-M12W8-K-10-N-LE8		
			Straight	-	-	570008	SIM-M12-8GD-10-PU		
		15	Angled		848	8048086	NEBU-M12W8-K-15-N-LE8		
			Straight	-	-	5105631	SIM-M12-8GD-15-PU		
		20	Straight	-	-	5105632	SIM-M12-8GD-20-PU		
		25	Straight	-	_	5105633	SIM-M12-8GD-25-PU		
Socket, 8-pin, plug M12	Socket, 8-pin, plug M12, 8-pin, M12								
	_	2	Straight – straight	-	140	525617	KM12-8GD8GS-2-PU		

Power supply socket NEBU-G78W5

- Connecting cable for power supply
- Pre-assembled at one end
- 2 m cable length
- 5 wires
- Socket G7/8, 5-pin



General technical data					
Based on standard	NFPA/T3.5.29 R1-2007				
Cable designation	Without inscription label holder				
Degree of protection	IP65, IP67				
Note on degree of protection	In assembled state				

Technical data – Electrical connection 1					
Function	Field device side				
Design	Round				
Connection type	Socket				
Cable outlet	Angled				
Connection technology	G7/8 coded to NFPA/T3.5.29 R1-2007				
Number of pins/wires	5				
Assigned pins/wires	5				
Type of mounting	Screw-type lock				
Contact durability	100				

Technical data – Electrical components		
Operating voltage range	[V DC]	0 300
	[V AC]	0 300
Surge resistance	[kV]	4
Current rating at 40°C	[A]	9

Technical data – Cable		
Cable characteristic		Standard
Cable testing conditions		Test conditions on request
Bending radius, fixed cable installation	[mm]	≥65
Cable diameter	[mm]	8.7
Cable diameter tolerance	[mm]	±0.2
Cable composition	[mm ²]	5x 1.5
Conductor nominal cross section	[mm ²]	1.5

Technical data – Electrical connection 2					
Function	Controller side				
Connection type	Cable				
Connection technology	Open end				
Number of pins/wires	5				
Assigned pins/wires	5				

Materials	
Housing	TPE-U(PUR)
Housing colour	Black
Cable sheath	TPE-U(PUR)
Cable sheath colour	Black
Screw-type lock	Nickel-plated brass
Pin contacts	Gold-plated brass
Note on materials	RoHS-compliant

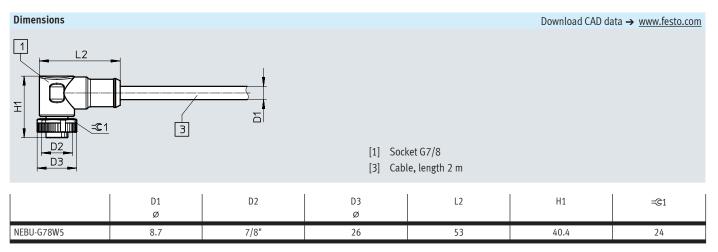
Operating and environmental conditions					
Ambient temperature [°C]	-20 +80				
Corrosion resistance CRC ¹⁾	1				
CE marking (see declaration of conformity) ²⁾	To EU Low-Voltage Directive				
Pollution degree	3				

¹⁾ Corrosion resistance class CRC 1 to Festo standard FN 940070

²⁾ Additional information www.festo.com/sp → Certificates.

Circuitry (socket view) Socket				
Socket	Pin	Wire colour ¹⁾	Pin	Plug
Electrical connection, socket, 5-pin,	G7/8 – open cable	e end		
3⊜	1	ВК	-	-
2 0 4	2	BU	-	
	3	GN YE	-	
1\0\0/5	4	BN	-	
	5	WH	-	

1) To IEC 757



Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре
Socket, 5-pin, G7/8 - op	en cable end						
	Standard	2	Angled	-	300	573855	NEBU-G78W5-K-2-N-LE5

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Connecting cable SIM-K

- Connecting cable for low-voltage applications
- Easy-to-clean design
- Pre-assembled at one end
- Cable lengths 2.5 m, 5 m and 10 m
- 3 wires
- Mounting via clip (snap-locking)



General technical data			
Conforms to standard	EN 61076-2-104		
	EN 61984		
	Wire colours and connection numbers to EN 60947-5-2		
Cable designation	Without inscription label holder		
Degree of protection	IP65, IP67		
Note on degree of protection	In assembled state		

Technical data – Electrical connection 1				
Function	Field device side			
Design	Round			
Connection type	Socket			
Cable outlet	Straight, angled			
Connection technology	M8 snap-locking A-coded to EN 61076-2-104			
Number of pins/wires	3			
Assigned pins/wires	3			
Type of mounting	Snap-locking Snap-locking			
Contact durability	100			

Technical data – Electrical components		
Operating voltage range	[V DC]	0 60
	[V AC]	0 60
Surge resistance	[kV]	1.5
Current rating at 40°C	[A]	3

Technical data – Cable			
Cable characteristic			Standard
Cable testing conditions			Bending strength: to Festo standard
			Test conditions on request
			Energy chain: 5 million cycles, bending radius 28 mm
Bending radius	Fixed cable installation	[mm]	≥23
	Flexible cable installation [mm]		≥46
Cable diameter		[mm]	4.5
Cable diameter tolerance		[mm]	±0.1
Cable composition		[mm ²]	3x 0.25
Conductor nominal cross section		[mm ²]	0.25

Technical data – Electrical connection 2	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of pins/wires	3
Assigned pins/wires	3
Wire ends	Wire end sleeve

Materials	
Housing	TPE-U(PUR)
Housing colour	Black
Cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Insulating sheath	PP
Seals	NBR
Pin contacts	Gold-plated brass
Note on materials	RoHS-compliant
	Free of copper and PTFE
	Halogen-free

Operating and environmental conditions				
Ambient temperature		[°C]	-25 +70	
	With flexible cable installation	[°C]	-5 +70	
Storage temperature		[°C]	-25 +70	
Corrosion resistance CRC ¹⁾			4	
CE marking (see declaration of	conformity) ²⁾		To EU Low-Voltage Directive	
Pollution degree			3	

¹⁾ Corrosion resistance class CRC 4 to Festo standard FN 940070

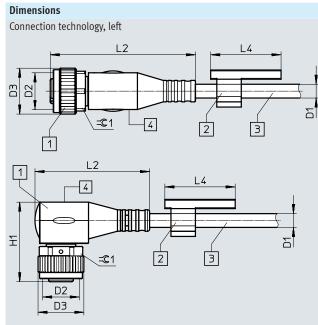
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by special tests (

also FN 940082), using appropriate media.

²⁾ Additional information www.festo.com/sp → Certificates.

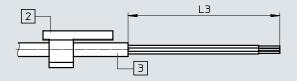
Circuitry (socket view)				
Socket	Pin	Wire colour ¹⁾	Pin	Plug
Electrical connection, socket, 3-pin, clip – o	pen cable	end		
4	1	BN	-	_
	3	BU	-	
3(0 0)1	4	ВК	-	

¹⁾ To IEC 757



Download CAD data → www.festo.com

Connection technology, right



[1] Socket

[2] Inscription label holder, must be ordered separately as an accessory

Connection technology, left	D1 Ø	D2	D3 Ø	L2	L4	H1	= ©1
Straight socket	4.5	-	8.5	33.6	-	-	-
Angled socket	4.5	8.3	8.5	26.1	-	18.4	-

Connection technology,	D1	L3

[3] Cable, length $2.5 \, \text{m}$, $5 \, \text{m}$, $10 \, \text{m}$ depending on the order

right	D1 Ø	L3
Open end	4.5	50

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [m]	Part no.	Туре
Socket, 3-pin, clip – ope	n cable end						
	Standard	2.5	Straight	_	_	164257	SIM-K-GD-2,5-PU
OT WEST			Angled	_	_	164255	SIM-K-WD-2,5-PU
		5	Straight	-	_	164256	SIM-K-GD-5-PU
			Angled	-	-	164254	SIM-K-WD-5-PU
		10	Straight	-	-	192962	SIM-K-GD-10-PU
			Angled	-	-	192963	SIM-K-WD-10-PU

Connecting cable SIM-K

- Connecting cable for low-voltage applications
- Easy-to-clean design
- Pre-assembled at one end
- Cable lengths 2.5 m and 5 m
- 4 wires
- Mounting via clip (snap-locking)



General technical data			
Conforms to standard	EN 61076-2-104		
	EN 61984		
	Wire colours and connection numbers to EN 60947-5-2		
Cable designation	Without inscription label holder		
Degree of protection	IP65, IP67		
Note on degree of protection	In assembled state		

Technical data – Electrical connection 1					
Function	Field device side				
Design	Round				
Connection type	Socket				
Cable outlet	Straight, angled				
Connection technology	M8 snap-locking A-coded to EN 61076-2-104				
Number of pins/wires	4				
Assigned pins/wires	4				
Type of mounting	Snap-locking Snap-locking				
Contact durability	100				

Technical data – Electrical components		
Operating voltage range	[V DC]	0 30
	[V AC]	0 30
Surge resistance	[kV]	0.8
Current rating at 40°C	[A]	3

Technical data – Cable			
Cable characteristic			Standard
Cable testing conditions			Bending strength: to Festo standard
			Test conditions on request
			Energy chain: 5 million cycles, bending radius 28 mm
Bending radius	Fixed cable installation [mm]		≥23
	Flexible cable installation	[mm]	≥46
Cable diameter		[mm]	4.5
Cable diameter tolerance		[mm]	±0.1
Cable composition		[mm ²]	4x 0.25
Conductor nominal cross section		[mm ²]	0.25

Technical data – Electrical connection 2	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of pins/wires	4
Assigned pins/wires	4
Wire ends	Wire end sleeve

Materials	
Housing	TPE-U(PUR)
Housing colour	Black
Cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Insulating sheath	PP
Seals	NBR
Pin contacts	Gold-plated brass
Note on materials	RoHS-compliant
	Free of copper and PTFE
	Halogen-free

Operating and environmental conditions						
Ambient temperature [°C] -25 +70						
	With flexible cable installation	[°C]	-5 +70			
Storage temperature		[°C]	-25 +70			
Corrosion resistance CRC ¹⁾			4			
Pollution degree			3			

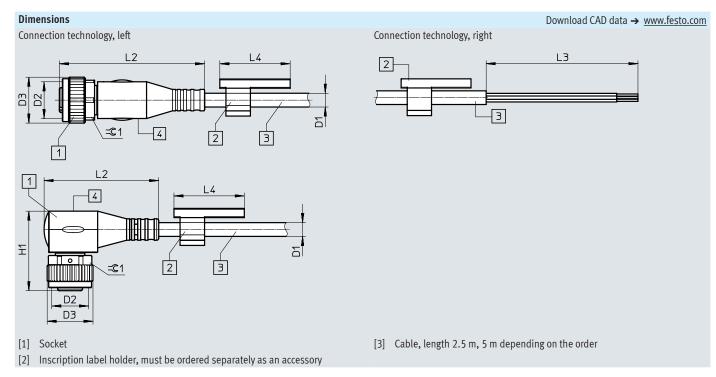
¹⁾ Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by special tests (

also FN 940082), using appropriate media.

Circuitry (socket view) Socket				
Socket	Pin	Wire colour ¹⁾	Pin	Plug
Electrical connection, socket, 4-pin, cli	p – open cable	end		
// 2	1	BN	-	_
	2	WH	-	
3(0 0)1	3	BU	-	
	4	ВК	-	

1) To IEC 757



Connection technology, left	D1 Ø	D2	D3 Ø	L2	L4	H1	= ©1
Straight socket	4.5	-	8.5	33.6	-	-	-
Angled socket	4.5	-	8.3	26.1	-	18.4	-

Connection technology, right	D1 Ø	L3
Open end	4.5	50

Ordering data							
	Cable characteristic	Cable length [m]	Outlet direction	Special features	Product weight [g]	Part no.	Туре
Socket, 4-pin, clip – ope	en cable end						
	Standard	2.5	Straight	-	-	164250	SIM-K-4-GD-2,5-PU
			Angled	_	-	164252	SIM-K-4-WD-2,5-PU
		5	Straight	-	-	164251	SIM-K-4-GD-5-PU
			Angled	-	-	164253	SIM-K-4-WD-5-PU

Ordering data - Modular product system

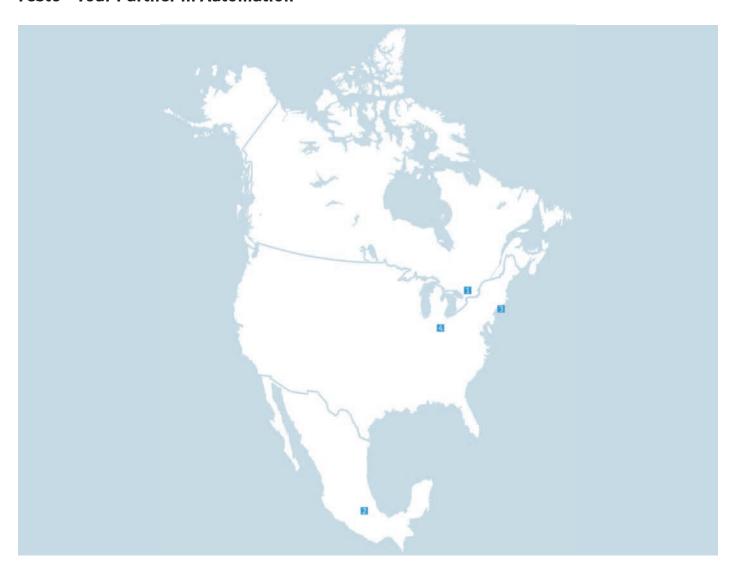
Ordering table		I	1	
		Conditions	Code	Enter code
Module no.	539052			
Function	Connecting cable		NEBU	NEBU
Connection technology, left	Open end	[1]	-LE	
	Socket with connecting thread M8		-M8	
	Socket with connecting thread M12, A-coded		-M12	
Socket design	Without (only in the case of open end as connection technology on the left)			
	Straight		G	
	Angled		W	
	Rotatable	[2]	R	
Number of pins/wires (on the left)	3-pin (suitable for open end, plug M8)		3	
	4-pin (suitable for open end, plug M8)		4	
	5-pin (suitable for 3, 4 and 5-pin plug M12)		5	
Indicators	Without LED, DC (standard)			
	LED, NPN	[3]	N	
	LED, DC	[4]	L	
	2x LED, PNP	[5]	P2	
Cable characteristic	Standard		-K	
	Suitable for energy chains		-E	
	Suitable for robot applications		-R	
Cable length	0.1 30 m (0.1 2.5 m in 0.1 m increments, 2.5 30 m in 0.5 m increments)			
Wire cross section	0.25 mm ² (standard)			
	1.00 mm ²	[6]	Q8	
Cable colour	Grey (standard)			
Cable designation	With inscription label holder (standard)			
	Without inscription label holder		-N	
Connection technology, right	Open end (not possible in the case of open end as connection technology on the left)	[1]	-LE	
	Plug with connecting thread M8		-M8	
	Plug with connecting thread M12, A-coded		-M12	
Plug design	Without (only in the case of open end as connection technology on the right)			
	Straight		G	
	Angled		W	
Number of pins/wires (on the right)	2-pin	[7]	2	
	3-pin (suitable for M8/M12 socket)	[8]	3	
	4-pin (suitable for M8/M12 socket)	[8]	4	
	5-pin (suitable for M12 socket)	[8] [9]	5	

- [1] LE With open end LE the number of pins/wires of the open end must be less than or equal to the number of pins of the opposite side.
- [2] R Can only be combined with M8 (connection technology, left), 3-pin (pins/wires on the left), without display, standard wire cross section.
- [3] N Can only be combined with M8 connection technology on the left and socket design W with 3 PINS/wires (on the left), or with M12 connection technology on the left and socket design W with 5 PINS/wires (on the left) and 3 PINS/wires (on the right).
- [4] L Can only be combined with M8 connection technology on the left and 4 PINS/wires (on the left) and M8 connection technology on the right with 3 or 4 PINS/wires (on the left) or M12 connection technology on the right with 2 PINS/wires (on the left) or LE connection technology on the right with 2 PINS/wires (on the left).

 Can only be combined with cable characteristic K.
- [5] P2 Can only be combined with M12 connection technology on the left and socket design W with 4 PINS/wires (on the right).
- [6] Q8 Can only be combined with M12 connection technology on the left and socket design G with 5 PINS/wires (on the left), and with M12 connection technology on the right and plug design G with 5 PINS/wires (on the left).

 Can only be combined with cable characteristic E.
- [7] 2 Can only be combined with M12 or LE connection technology on the right and L display. Can only be combined with cable characteristic K.
- [8] 3, 4, 5
 - With LE connection technology on the left, the number of wires (on the left) is copied over.
- [9] 5 Can only be combined with M12 or LE connection technology on the left.

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