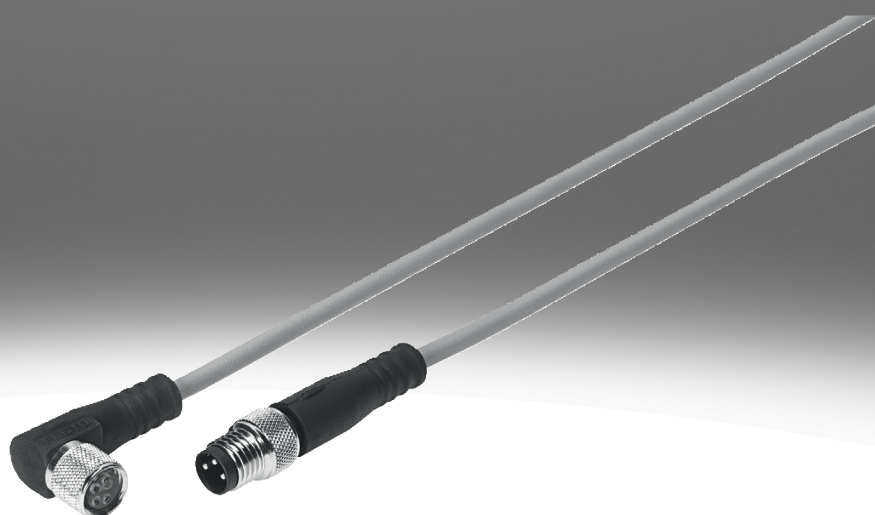


Connecting cable NEBV

FESTO



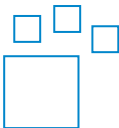
Characteristics

At a glance

The connecting cables NEBV are optimally adapted for valves with a single connection and valve manifold assemblies with a multi-pin connection. The following properties are typical of the cables:

- Electrical connection
- Length
- Cable characteristic
- IP degree of protection
- Protective circuit/holding current reduction

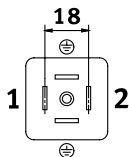
Ordering data - modular system



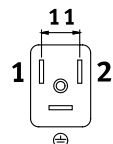
Configurable product
This product and all its product options can be ordered online via the configurator.

Connection technology left, field device side

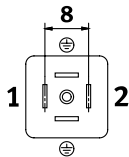
[A1] Socket type A, EN 175301-803



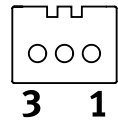
[B2] Socket type B, industry standard, 11 mm



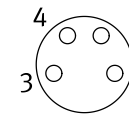
[C1S] Socket type C, narrow design



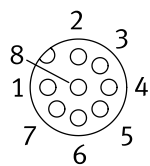
[H1] Socket connection pattern H



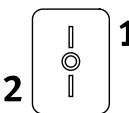
[M8] Socket M8x1 A-coded, EN 61076-2-104



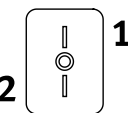
[M12] Socket M12x1 A-coded, EN 61076-2-101



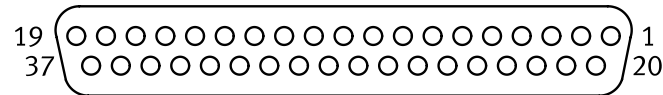
[Z3] Socket connection pattern ZC, self-tapping screw



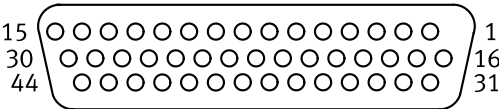
[Z4] Socket connection pattern ZC, metric screw



[S1] Sub-D socket



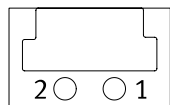
[S7] Sub-D HD socket



Characteristics

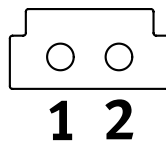
[Q7]

Port pattern Q7 socket



[HS]

Socket connection pattern S



Type code

001	Series
NEBV	Connecting cable for valves

002	Product version
	Standard
C	Easy-to-clean design

003	Connection technology left, field device side
A1	Socket type A, EN 175301-803
B2	Socket type B, industry standard, 11 mm
C1S	Socket type C, narrow design
H1	Socket connection pattern H
HP	Socket connection pattern HP
HS	Socket connection pattern S
M8	Socket M8x1 A-coded, EN 61076-2-104
M12	Socket M12x1 A-coded, EN 61076-2-101
Q7	Port pattern Q7 socket
S1	Sub-D socket
S7	Sub-D HD socket
Z3	Socket connection pattern ZC, self-tapping screw
Z4	Socket connection pattern ZC, metric screw

004	Cable outlet left
	None
G	Straight
W	Angled
WA	Angled 45°

005	Number of pins/wires on the left
2	2
3	3
4	4
8	8
9	9
15	15
25	25
37	37
44	44

006	Display
	None
F	LED signal status, AC
L	LED signal status, DC
N	LED switching state, NPN
P	LED switching state, PNP
U	LED, UC

007	Additional socket functions
	None
HL	Hood for MPA-L
HM	Hood for MPA-S
HS	With seal

008	Circuitry
	None
P	Protective circuit
R	Holding current reduction with integrated protective circuit

009	Cable characteristic
E	Suitable for energy chains
F	Food-safe to standard
K	Standard
P	Basic

010	Cable design
	Standard
D	Double cable
M	Alternative material
N	Leads

011	Cable length [m]
0.1	0.1
0.2	0.2
0.3	0.3
0.5	0.5
0.6	0.6
1	1
2	2
2.5	2.5
3	3
5	5
10	10

012	Cable identification
	With label holder
N	Without label holder

013	Connection technology right, controller side
LE	Open end
M8	Plug M8x1 A-coded, EN 61076-2-104
M12	Plug M12x1 A-coded, EN 61076-2-101
Z1	Port pattern ZB plug, self-tapping screw

014	Plug
	None
G	Straight
W	Angled

015	Number of pins/wires on the right
2	2
3	3
4	4
5	5
10	10
15	15
25	25
26	26
27	27
36	36
37	37
39	39
44	44

016	Degree of protection, electrical system
	Standard
S1	IP65
S6	IP40
S9	IP65/IP67
S10	IP65/IP67/IP69K

Datasheet

General technical data – Socket type A, EN 175301-803, with switching status indication

Switching status indication	Yellow LED
Additional functions	Protective circuit
Cable designation	Without inscription label holder
Product weight	60 ... 100 g
Cable length	0.3 ... 0.6 m

General technical data – Socket type A, EN 175301-803, without switching status indication

Cable designation	Without inscription label holder
Product weight	60 ... 100 g
Cable length	0.3 ... 0.6 m

Technical data – Electrical connection 1, socket type A, EN 175301-803

Electrical connection 1, connector system	Connection pattern type A based on EN 175301-803
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	4
Electrical connection 1, used connections/cores	4
Electrical connection 1, type of mounting	On solenoid valve via M3 central screw

Technical data – Electrical connection 2, socket type A, EN 175301-803

Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable, Plug
Electrical connection 2, cable outlet	Angled
Electrical connection 2, design	Round
Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101, Open end
Electrical connection 2, number of connections/cores	3 ... 5
Electrical connection 2, used connections/cores	3
Electrical connection 2, type of mounting	Screw lock with hex A/F13

Technical data – Electrical, socket type A, EN 175301-803, with switching status indication

Nominal operating voltage DC	24
Operational voltage range DC	18 ... 30 V
Nominal operating voltage AC	24
Operational voltage range AC	18 ... 30 V
Immunity to surge	0.8 kV
Current rating at 40° C	4 A
Pollution degree	3
Protective conductor connection	Available
Cable characteristic	Standard
Test conditions cable	Test conditions on request

Datasheet

Technical data – Electrical, socket type A, EN 175301-803, without switching status indication

Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101	Open end
Nominal operating voltage DC	110	230
Operational voltage range DC	0 ... 110 V	0 ... 230 V
Nominal operating voltage AC	110	230
Operational voltage range AC	0 ... 110 V	0 ... 230 V
Immunity to surge	1.5 kV	4 kV
Current rating at 40° C	1 A	10 A
Pollution degree	3	
Protective conductor connection	Available	
Cable characteristic	Standard	
Test conditions cable	Test conditions on request	

Technical data – Cable, socket type A, EN 175301-803

Cable diameter	5.9 mm
Cable diameter tolerance	± 0.3 mm
Cable characteristic	Standard
Test conditions cable	Test conditions on request
Cable structure	3 x 0.75 mm ²
Operational voltage range DC	0 ... 230 V
Nominal operating voltage DC	24 ... 230 V
Operational voltage range AC	0 ... 230 V
Nominal operating voltage AC	24 ... 230 V
Current rating at 40° C	1 ... 10 A
Immunity to surge	0.8 ... 4 kV
Protective conductor connection	Available

Materials – Socket type A, EN 175301-803

Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101	Open end
Material housing	TPE-U(PUR)	
Housing colour	Black	
Material union nut	Die-cast zinc, nickel-plated	–
Material cable sheath	TPE-U(PUR)	
Cable sheath colour	Grey	
Material insulating sheath	PP	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364 zone III	

Operating and ambient conditions – Socket type A, EN 175301-803, with switching status indication

Ambient temperature	-25 ... 80°C
Ambient temperature with moving cable	-25 ... 80°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP67
Note on degree of protection	In mounted state
Approval	c CSA us (OL)

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

Datasheet

Operating and environmental conditions – Socket type A, EN 175301-803, without switching status indication

Ambient temperature	-25 ... 80°C
Ambient temperature with moving cable	-25 ... 80°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
CE mark (see declaration of conformity) ²⁾	To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP67
Note on degree of protection	In mounted state
Approval	c CSA us (OL)

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket type B, industry standard 11 mm, with switching status indication

Switching status indication	Yellow LED
Additional functions	Protective circuit
Cable designation	Without inscription label holder
Product weight	60 ... 100 g
Cable length	0.3 ... 0.6 m

General technical data – Socket type B, industry standard 11 mm, without switching status indication

Cable designation	Without inscription label holder
Product weight	60 ... 100 g
Cable length	0.3 ... 0.6 m

Technical data – Electrical connection 1, socket type B, industry standard 11 mm

Electrical connection 1, connector system	Plug pattern type B to industry standard, 11 mm
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	3
Electrical connection 1, used connections/cores	3
Electrical connection 1, type of mounting	On solenoid valve via M3 central screw

Datasheet

Technical data – Electrical connection 2, socket type B, industry standard 11 mm

Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101	Open end
Electrical connection 2, function	Control side	
Electrical connection 2, connection type	Plug	Cable
Electrical connection 2, cable outlet	Angled	–
Electrical connection 2, design	Round	–
Electrical connection 2, number of connections/cores	5	3
Electrical connection 2, used connections/cores	3	
Electrical connection 2, type of mounting	Screw lock with hex A/F13	–

Technical data – Electrical, socket type B, industry standard 11 mm, with switching status indication

Nominal operating voltage DC	24
Operational voltage range DC	18 ... 30 V
Nominal operating voltage AC	24
Operational voltage range AC	18 ... 30 V
Immunity to surge	0.8 kV
Current rating at 40° C	4 A
Pollution degree	3
Protective conductor connection	Available
Cable characteristic	Standard
Test conditions cable	Test conditions on request

Technical data – Electrical, socket type B, industry standard 11 mm, without switching status indication

Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101	Open end
Nominal operating voltage DC	110	230
Operational voltage range DC	0 ... 110 V	0 ... 230 V
Nominal operating voltage AC	110	230
Operational voltage range AC	0 ... 110 V	0 ... 230 V
Immunity to surge	1.5 kV	4 kV
Current rating at 40° C	1 A	10 A
Pollution degree	3	
Protective conductor connection	Available	
Cable characteristic	Standard	
Test conditions cable	Test conditions on request	

Technical data – Cable, socket type B, industry standard 11 mm

Cable diameter	5.9 mm
Cable diameter tolerance	± 0.3 mm
Cable characteristic	Standard
Test conditions cable	Test conditions on request
Cable structure	3 x 0.75 mm ²
Operational voltage range DC	0 ... 230 V
Nominal operating voltage DC	24 ... 230 V
Operational voltage range AC	0 ... 230 V
Nominal operating voltage AC	24 ... 230 V
Current rating at 40° C	1 ... 10 A
Immunity to surge	0.8 ... 4 kV
Protective conductor connection	Available

Datasheet

Materials – Socket type B, industry standard 11 mm

Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101	Open end
Material housing	TPE-U(PUR)	
Housing colour	Black	
Material union nut	Die-cast zinc, nickel-plated	–
Material cable sheath	TPE-U(PUR)	
Cable sheath colour	Grey	
Material insulating sheath	PP	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364 zone III	

Operating and ambient conditions – Socket type B, industry standard 11 mm, with switching status indication

Ambient temperature	-25 ... 80°C	
Ambient temperature with moving cable	-25 ... 80°C	
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions	
Degree of protection	IP67	
Note on degree of protection	In mounted state	
Approval	c CSA us (OL)	

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

Operating and environmental conditions – Socket type B, industry standard 11mm, without switching status indication

Ambient temperature	-25 ... 80°C	
Ambient temperature with moving cable	-25 ... 80°C	
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	To EU Low Voltage Directive, In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions, To UK regulations for electrical equipment	
Degree of protection	IP67	
Note on degree of protection	In mounted state	
Approval	c CSA us (OL)	

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the surrounding industrial environment.

2) Further information www.festo.com/catalogue/... Support/Downloads.

3) Further information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket type C, narrow design, with signal status indication

Signal status display	Yellow LED
Additional functions	Protective circuit
Frequency of connection	50
Cable designation	Without inscription label holder

General technical data – Socket type C, narrow design, without signal status indication

Frequency of connection	50
Cable designation	Without inscription label holder

Datasheet

Technical data – Electrical connection 1, socket type C, narrow design, with signal status indication

Electrical connection 1, connector system	Plug pattern type C to EN 175301-803
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket, narrow
Electrical connection 1, cable outlet	Angled
Electrical connection 1, note on cable outlet	Can be rotated 180°
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	4
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	On solenoid valve via M2.5 central screw

Technical data – Electrical connection 1, socket type C, narrow design, without signal status indication

Electrical connection 1, connector system	Plug pattern type C to EN 175301-803
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket, narrow
Electrical connection 1, cable outlet	Angled
Electrical connection 1, note on cable outlet	Can be rotated 180°
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	4
Electrical connection 1, used connections/cores	4
Electrical connection 1, type of mounting	On solenoid valve via M2.5 central screw

Technical data – Electrical connection 2, socket type C, narrow design, with signal status indicator

Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Electrical connection 2, number of connections/cores	2
Electrical connection 2, used connections/cores	2

Technical data – Electrical connection 2, socket type C, narrow design, without signal status indication

Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Electrical connection 2, number of connections/cores	3
Electrical connection 2, used connections/cores	3

Datasheet

Technical data – Electrical, socket type C, narrow design, with signal status display

Nominal operating voltage DC	24
Operational voltage range DC	20.4 ... 26.4 V
Immunity to surge	2.4 kV
Current rating at 40° C	6 A
Pollution degree	3
Note on the contamination level	In mounted state
Reverse polarity protection	Bipolar
Protective conductor connection	Not provided

Technical data – Electrical, socket type C, narrow design, without signal status indicator

Operational voltage range DC	0 ... 230 V
Operational voltage range AC	0 ... 230 V
Immunity to surge	4 kV
Current rating at 40° C	6 A
Pollution degree	3
Note on the contamination level	In mounted state
Reverse polarity protection	Bipolar
Protective conductor connection	Available

Technical data – Cable, socket type C, narrow design, with signal status display

Cable diameter	5.2 mm
Cable diameter tolerance	± 0.1 mm
Cable characteristic	Standard
Bending radius, moving cable	≥ 52 mm
Test conditions cable	Test conditions on request
Cable structure	2 x 0.75 mm ²
Nominal cross section conductor	0.75 mm ²

Technical data – Cable, socket type C, narrow design, without signal status indication

Cable diameter	5.2 mm
Cable diameter tolerance	± 0.1 mm
Cable characteristic	Standard
Bending radius, moving cable	≥ 52 mm
Test conditions cable	Test conditions on request
Cable structure	3 x 0.5 mm ²
Nominal cross section conductor	0.5 mm ²

Materials – Socket type C, narrow design

Material housing	TPE-U(PU)
Housing colour	Black
Material screws	Stainless steel
Material seals	HNBR
Material electrical contact	Tin-plated copper alloy
Material cable sheath	PVC
Cable sheath colour	Grey
Material insulating sheath	PVC
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Datasheet

Operating and environmental conditions – Socket type C, narrow design, with signal status display

Ambient temperature	-20 ... 70°C
Ambient temperature with moving cable	-5 ... 70°C
Corrosion resistance class CRC ¹⁾	3 - high corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP65, IP67
Note on degree of protection	In mounted state

1) Corrosion resistance class CRC 3 to Festo standard FN 940070 High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

Operating and environmental conditions – Socket type C, narrow design, without signal status display

Ambient temperature	-20 ... 70°C
Ambient temperature with moving cable	-5 ... 70°C
Corrosion resistance class CRC ¹⁾	3 - high corrosion stress
CE mark (see declaration of conformity) ²⁾	To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP65, IP67
Note on degree of protection	In mounted state

1) Corrosion resistance class CRC 3 to Festo standard FN 940070 High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket plug pattern H

Cable designation	Without inscription label holder
Mounting position	Any

Technical data – Electrical connection 1, socket plug pattern H

Electrical connection 1, connector system	Plug pattern H
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	3
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	Snap-locking

Datasheet

Technical data – Electrical connection 2, socket plug pattern H

Electrical connection 2, connector system	Open end
Electrical connection 2, function	Control side
Electrical connection 2, connection type	2x single cores, Cable
Wire ends	Stripped, Cut off bluntly
Electrical connection 2, number of connections/cores	2
Electrical connection 2, used connections/cores	2

Technical data – Electrical, socket plug pattern H

Operational voltage range DC	0 ... 60 V
Current rating at 40° C	3 A

Technical data – Cable, socket plug pattern H

Electrical connection 2, connection type	2x single cores	Cable
Cable diameter	1.3 mm	3.4 mm
Cable characteristic	Standard	For static applications
Cable structure	2 x 0.14 mm ²	
Nominal cross section conductor	0.14 mm ²	

Materials – Socket plug pattern H

Electrical connection 2, connection type	2x single cores	Cable
Material housing	POM	
Housing colour	Black	
Material electrical contact	Copper alloy, Tin-plated	
Material cable sheath	–	TPE-U(PUR)
Cable sheath colour	–	Grey
Material insulating sheath	PVC	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364-B2-L	

Operating and ambient conditions – Socket plug pattern H

Ambient temperature	-5 ... 60°C
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP40
Note on degree of protection	In mounted state

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket M8x1, A-coded

Conforms to standard	EN 61076-2-101, ISO 20401
Switching status indication	Yellow LED

Technical data – Electrical connection, socket M8x1, A-coded

Electrical connection	4-pin / 3-pin, Angled socket/straight plug, M8x1 / M8x1	4-pin / 2-core, Angled socket/cable, M8x1
Wire ends	–	Wire ferrule

Datasheet

Technical data – Electrical, socket M8x1, A-coded

Operational voltage range DC	20.4 ... 26.4 V
Current rating at 40° C	3 A

Technical data – Cable, socket M8x1, A-coded

Cable diameter	3.3 mm
Cable characteristic	Suitable for energy chains
Min. cable bending radius	35
Cable structure	2 x 0.25 mm ²

Materials – M8x1 socket, A-coded

Material housing	TPE-U(PU)
Material electrical contact	Brass, Gold-plated
Material cable sheath	PUR, TPE-U(PUR)
Material insulating sheath	PVC
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Operating and environmental conditions – M8x1 socket, A-coded

Ambient temperature	-10 ... 50°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP65, IP67

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the surrounding industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – M12x1 socket, A-coded

Electrical connection 1, used connections/cores	4	5
Conforms to standard	EN 61076-2-101	DIN 47100, EN 61076-2-101
Distribution	–	1 to 2
Design	–	Y-distributor with cables on both sides
Additional functions	–	Distribution of the analogue inputs and outputs of a proportional pressure regulator
Type of mounting	–	Via through-hole for M3 screw
Cable designation	Without inscription label holder	

Technical data – Electrical connection 1, M12x1 socket, A-coded

Electrical connection 1, used connections/cores	4	5
Electrical connection 1, con- nector system	M12x1, A-coded to EN 61076-2-101	
Electrical connection 1, func- tion	Field device side	
Electrical connection 1, con- nection type	Socket	
Electrical connection 1, cable outlet	Straight	
Electrical connection 1, design	Round	
Electrical connection 1, num- ber of connections/cores	8	
Electrical connection 1, type of mounting	Screw-type lock	

Datasheet

Technical data – Electrical connection 2, socket M12x1, A-coded

Electrical connection 2, function	Control side
Electrical connection 2, connection type	Plug
Electrical connection 2, cable outlet	Straight
Electrical connection 2, design	Round
Electrical connection 2, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 2, number of connections/cores	4
Electrical connection 2, used connections/cores	4
Electrical connection 2, type of mounting	Screw-type lock

Technical data – Electrical connection 3, socket M12x1, A-coded

Electrical connection 1, used connections/cores	4	5
Electrical connection 3, function	–	Control side
Electrical connection 3, connection type	–	Plug
Electrical connection 3, cable outlet	–	Straight
Electrical connection 3, design	–	Round
Electrical connection 3, connector system	–	M12x1, A-coded to EN 61076-2-101
Electrical connection 3, number of connections/cores	–	4
Electrical connection 3, used connections/cores	–	3
Electrical connection 3, type of mounting	–	Screw-type lock

Technical data – Electrical, socket M12x1, A-coded

Operational voltage range DC	0 ... 30 V
Operational voltage range AC	0 ... 30 V
Immunity to surge	0.8 kV
Current rating at 40° C	2 A
Pollution degree	3
Shielding	Yes

Datasheet

Technical data – Cable, socket M12x1, A-coded

Electrical connection 1, used connections/cores	4	5
Cable diameter	5.6 mm	–
Cable diameter tolerance	±0.2 mm	–
Cable diameter 1	–	6.3
Tolerance for cable diameter 1	–	±0.2 mm
Cable diameter 2	–	6.3
Tolerance for cable diameter 2	–	± 0.2 mm
Cable characteristic	Standard	
Bending radius, fixed cable	≥29 mm	–
Bending radius, moving cable	≥58 mm	–
Bending radius 1, fixed cable installation	–	33
Bending radius 2, fixed cable installation	–	33
Min. bending radius with free moving insert 1	–	66
Min. bending radius with free moving insert 2	–	66
Cable structure	4 x 0.34 mm ²	8 x 0.25 mm ²
Nominal cross section conductor	0.34 mm ²	0.25 mm ²

Materials – Socket M12x1, A-coded

Electrical connection 1, used connections/cores	4	5
Material housing	TPE-U(PUR)	
Housing colour	Black	
Material screw-type lock	Brass, nickel-plated	
Material seals	NBR	
Material electrical contact	Gold-plated brass	Brass, nickel-plated and gold-plated
Material cable sheath	TPE-U(PUR)	
Cable sheath colour	Grey	
Material insulating sheath	PP	
Note on materials	RoHS compliant, Free of halogen	
LABS (PWIS) conformity	VDMA24364-B2-L	

Operating and environmental conditions – Socket M12x1, A-coded

Electrical connection 1, used connections/cores	4	5
Ambient temperature	-25 ... 85°C	-25 ... 80°C
Ambient temperature with moving cable	-5 ... 80°C	
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions	
Degree of protection	IP67	
Note on degree of protection	In mounted state	

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket plug pattern ZC, self-tapping screw

Signal status display	Yellow LED
Additional functions	Holding current reduction, Protective circuit
Frequency of connection	50
Cable designation	Without inscription label holder

Datasheet

Technical data – Electrical connection 1, socket, plug pattern ZC, self-tapping screw

Electrical connection 1, connector system	Connection pattern ZC, self-tapping screw
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	2
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	On solenoid valve via self-tapping screw

Technical data – Electrical connection 2, socket plug pattern ZC, self-tapping screw

Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Electrical connection 2, number of connections/cores	2
Electrical connection 2, used connections/cores	2

Technical data – Electrical, socket plug pattern ZC, self-tapping screw

Nominal operating voltage DC	24
Operational voltage range DC	20.4 ... 26.4 V
Immunity to surge	2.4 kV
Pollution degree	3
Note on the contamination level	In mounted state
Reverse polarity protection	Bipolar
Protective conductor connection	Not provided

Technical data – Cable, socket plug pattern ZC, self-tapping screw

Cable diameter	2.9 mm
Cable diameter tolerance	± 0.1 mm
Cable characteristic	Suitable for energy chains
Bending radius, moving cable	≥ 29 mm
Test conditions cable	Test conditions on request
Cable structure	2 x 0.14 mm ²
Nominal cross section conductor	0.14 mm ²

ATEX

ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex ec IIC Gc X
Explosion protection certification outside the EU	EPL Gc (GB)

Datasheet

Materials – socket plug pattern ZC, self-tapping screw

Material housing	TPE-U(PU)
Housing colour	Black
Material screws	Steel
Material electrical contact	Tin-plated copper alloy
Material cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Material insulating sheath	PP
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Operating and ambient conditions – Socket plug pattern ZC, self-tapping screw

Ambient temperature	-10 ... 50°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
CE mark (see declaration of conformity) ²⁾	To EU EMC Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK instructions for EMC, To UK RoHS instructions
Degree of protection	IP65
Note on degree of protection	In mounted state

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket plug pattern ZC, metric screw, with signal status display

Signal status display	Yellow LED
Additional functions	Holding current reduction, Protective circuit
Frequency of connection	50
Cable designation	Without inscription label holder

General technical data – Socket plug pattern ZC, metric screw, without signal status indicator

Signal status display	–
Additional functions	–
Frequency of connection	50
Cable designation	Without inscription label holder

Technical data – Electrical connection 1, socket plug pattern ZC, metric screw

Electrical connection 1, connector system	Plug pattern ZC, metric screw
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	2
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	On solenoid valve via M2 central screw

Datasheet

Technical data – Electrical connection 2, socket plug pattern ZC, metric screw

Electrical connection 2, connector system	Connection pattern ZB, self-tapping screw	M8x1, A-coded to EN 61076-2-104	Open end
Electrical connection 2, function	Control side		
Electrical connection 2, connection type	Plug		Cable
Electrical connection 2, cable outlet	Angled	Straight	–
Electrical connection 2, design	Square	Round	–
Electrical connection 2, number of connections/cores	2	3	2
Electrical connection 2, used connections/cores	2		
Electrical connection 2, type of mounting	On solenoid valve via self-tapping screw	–	

Technical data – Electrical, socket plug pattern ZC, metric screw

Nominal operating voltage DC	24
Immunity to surge	2.4 kV
Pollution degree	3
Note on the contamination level	In mounted state
Reverse polarity protection	Bipolar
Protective conductor connection	Not provided

Technical data – Cable, socket plug pattern ZC, metric screw

Cable diameter	2.9 mm
Cable diameter tolerance	± 0.1 mm
Cable characteristic	Suitable for energy chains
Bending radius, moving cable	≥ 29 mm
Test conditions cable	Test conditions on request
Cable structure	2 x 0.14 mm ²
Nominal cross section conductor	0.14 mm ²

Materials – Socket, plug pattern ZC, metric screw

Electrical connection 2, connector system	Connection pattern ZB, self-tapping screw	M8x1, A-coded to EN 61076-2-104	Open end
Material housing	TPE-U(PU)		
Housing colour	Black		
Material union nut	–	Nickel-plated brass	–
Material screws	Stainless steel		
Material electrical contact	Tin-plated copper alloy	Tin-plated copper alloy, Gold-plated brass	Tin-plated copper alloy
Material cable sheath	TPE-U(PUR)		
Cable sheath colour	Grey		
Material insulating sheath	PP		
Note on materials	RoHS compliant		
LABS (PWIS) conformity	VDMA24364-B2-L		

Datasheet

Operating and environmental conditions – Socket plug pattern ZC, metric screw

Additional functions	Holding current reduction, Protective circuit	Protective circuit
Ambient temperature	-10 ... 50°C	
Corrosion resistance class CRC ¹⁾	3 - high corrosion stress	
CE mark (see declaration of conformity) ²⁾	To EU EMC Directive, In accordance with EU RoHS Directive	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK instructions for EMC, To UK RoHS instructions	To UK RoHS instructions
Degree of protection	IP65	
Note on degree of protection	In mounted state	

1) Corrosion resistance class CRC 3 to Festo standard FN 940070. High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with the surrounding industrial atmosphere.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Sub-D socket, easy to clean

Based on standard	DIN 47100
Frequency of connection	50
Cable designation	Without inscription label holder

Technical data – Electrical connection 1, Sub-D socket, easy to clean

Electrical connection 1, number of connections/cores	25	44
Electrical connection 1, connector system	Sub-D	
Electrical connection 1, function	Field device side	
Electrical connection 1, connection type	Socket	
Electrical connection 1, cable outlet	Angled	
Electrical connection 1, design	Square	
Electrical connection 1, used connections/cores	25	36
Electrical connection 1, type of mounting	2x screw 4-40 UNC, With seal	

Technical data – Electrical connection 2, Sub-D socket, easy to clean

Electrical connection 1, number of connections/cores	25	44
Electrical connection 2, function	Control side	
Electrical connection 2, connection type	Cable	
Electrical connection 2, connector system	Open end	
Electrical connection 2, number of connections/cores	25	36

Technical data – Electrical, Sub-D socket, easy to clean

Electrical connection 1, number of connections/cores	25	44
Operational voltage range DC	0 ... 30 V	
Current rating at 40° C	2.6 A	0.86 A
Pollution degree	3	
Note on the contamination level	In mounted state	
Protective conductor connection	Not provided	

Datasheet

Technical data – Cable, Sub-D socket, easy to clean

Electrical connection 1, number of connections/cores	25	44
Cable diameter	10.2 mm	9.6 mm
Cable diameter tolerance	± 0.25 mm	±0.2 mm
Cable characteristic	Standard	
Bending radius, fixed cable	≥41 mm	≥39 mm
Bending radius, moving cable	≥122 mm	≥115 mm
Cable structure	25 x 0.34 mm ²	36 x 0.25 mm ²
Nominal cross section conductor	0.34 mm ²	0.25 mm ²

Materials – Sub-D socket, easy to clean

Material housing	Reinforced PA
Housing colour	Grey
Material screws	Stainless steel
Material seals	EPDM
Material electrical contact	Gold-plated bronze
Material cable sheath	PVC
Cable sheath colour	Grey
Material insulating sheath	PVC
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Operating and environmental conditions – Sub-D socket, easy to clean

Ambient temperature	-5 ... 60°C
Ambient temperature with moving cable	-5 ... 60°C
Storage temperature	-20 ... 40°C
Corrosion resistance class CRC ¹⁾	3 - high corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP65, IP67, IP69K
Note on degree of protection	In mounted state
Special characteristics	Easy to clean

1) Corrosion resistance class CRC 3 to Festo standard FN 940070. High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements that are in direct contact with the surrounding industrial atmosphere.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Sub-D socket, 25-pin

Cable structure	15 x 0.34 mm ²	20 x 0.25 mm ² + 5 x 0.34 mm ²	25 x 0.34 mm ²
Based on standard	–		DIN 47100
Frequency of connection	–		50
Cable designation	–		Without inscription label holder

Datasheet

Technical data – Electrical connection 1, socket Sub-D, 25-pin

Cable structure	15 x 0.34 mm ²	20 x 0.25 mm ² + 5 x 0.34 mm ²	25 x 0.34 mm ²
Degree of protection	IP65, IP67, In mounted state		IP40
			IP65, IP67
Electrical connection 1	25-pin Sub-D socket		–
Electrical connection 1, connector system	–		Sub-D
Electrical connection 1, function	–		Field device side
Electrical connection 1, connection type	–		Socket
Electrical connection 1, cable outlet	–		Straight
			Angled
Electrical connection 1, design	–		Square
Electrical connection 1, number of connections/cores	–		25
Electrical connection 1, used connections/cores	–		25
Type of mounting	4-40 UNC-2B		–
Electrical connection 1, type of mounting	–		2x screw 4-40 UNC
Cable fitting	–		M20x1.5

Technical data – Electrical connection 2, socket Sub-D, 25-pin

Cable structure	15 x 0.34 mm ²	20 x 0.25 mm ² + 5 x 0.34 mm ²	25 x 0.34 mm ²
Electrical connection 2	Open-ended, 15-core	open end, 25-core	–
Electrical connection 2, function	–		Control side
Electrical connection 2, connection type	–		Cable
Electrical connection 2, connector system	–		Open end
Wire ends	–		Cut off bluntly
Electrical connection 2, number of connections/cores	–		25
Electrical connection 2, used connections/cores	–		25

Technical data – Electrical, Sub-D socket, 25-pin

Cable structure	15 x 0.34 mm ²	20 x 0.25 mm ² + 5 x 0.34 mm ²	25 x 0.34 mm ²
Degree of protection	IP65, IP67, In mounted state		IP40
			IP65, IP67
Nominal operating voltage DC	24		–
Operational voltage range DC	–		0 ... 30 V
Immunity to surge	–		2.4 kV
Current rating at 40° C	–		2.6 A
Pollution degree	–		2
			3
Note on the contamination level	–		In mounted state
Reverse polarity protection	–		Yes

Technical data – Cable, sub-D socket, 25-pin

Cable structure	15 x 0.34 mm ²	20 x 0.25 mm ² + 5 x 0.34 mm ²	25 x 0.34 mm ²
Degree of protection	IP65, IP67, In mounted state		IP40
			IP65, IP67
Cable diameter	9 mm	10.5 mm	10.2 mm
Cable diameter tolerance	–		± 0.25 mm
Cable characteristic	Standard		
Min. cable bending radius	90	105	–
Bending radius, fixed cable	–		≥ 42 mm
Bending radius, moving cable	–		≥ 126 mm
Test conditions cable	–		Test conditions on request
Nominal cross section conductor	–		0.34 mm ²

Datasheet

Materials – Sub-D socket, 25-pin

Cable structure	15 x 0.34 mm ²	20 x 0.25 mm ² + 5 x 0.34 mm ²	25 x 0.34 mm ²
Degree of protection	IP65, IP67, In mounted state		IP40
Material housing	PBT	Reinforced PC	PA66-GF30
Housing colour	–	Black	
Material union nut	PA	–	
Material screws	–	Brass, nickel-plated	Steel
Material seals	TPE-O	–	NBR
Material electrical contact	–	Bronze, Gold-plated	
Material cable sheath	PVC		
Cable sheath colour	–	Grey	
Material insulating sheath	–	PVC	
Note on materials	RoHS compliant		
LABS (PWIS) conformity	VDMA24364-B2-L		

Operating and environmental conditions – Sub-D socket, 25-pin

Operating and environmental conditions Sub D socket, 25 pin			
Degree of protection	IP40	IP65, IP67	IP65, IP67, In mounted state
Ambient temperature	-35 ... 80°C		–
Ambient temperature with moving cable	-5 ... 80°C		-5 ... 50°C
Storage temperature	-25 ... 75°C	-35 ... 80°C	–
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive		
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions		
Note on degree of protection	In mounted state		–

1) Corrosion resistance class CRC 0 to Festo standard FN 940070. No corrosion stress. Applies to small, visually irrelevant standard parts, such as threaded pins, retaining rings, clamping sleeves, etc., which are usually only available on the market in phosphated or black oxide finish (oiled if necessary), as well as to ball bearings (for components < CRC3) and plain bearings. Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Sub-D socket, 37-pin

Area of application	Only for multi-pin plug connection valve terminal VTSA/VTSA-F
Conforms to standard	DIN 47100
Cable designation	With inscription label holder

Technical data – Electrical connection 1, socket Sub-D, 37-pin

Electrical connection 2, number of connections/cores	10	26	27	37
Electrical connection 1, connector system	Sub-D			
Electrical connection 1, function	Field device side			
Electrical connection 1, connection type	Socket			
Electrical connection 1, cable outlet	Angled			
Electrical connection 1, design	Square			
Electrical connection 1, number of connections/cores	37			
Electrical connection 1, used connections/cores	10	26	27	37
Electrical connection 1, type of mounting	3x screw M4			

Datasheet

Technical data – Electrical connection 2, socket Sub-D, 37-pin

Electrical connection 2, number of connections/cores	10	26	27	37
Electrical connection 2, function	Control side			
Electrical connection 2, connection type	Cable			
Electrical connection 2, connector system	Open end			
Electrical connection 2, used connections/cores	10	26	27	37

Technical data – Electrical, Sub-D socket, 37-pin

Operational voltage range DC	0 ... 30 V
Immunity to surge	1 kV
Current rating at 40° C	2 A

Technical data – Cable, Sub-D socket, 37-pin

Cable characteristic	Standard				Suitable for energy chains	
Electrical connection 2, number of connections/cores	10	27	37		10	26
Material cable sheath	PVC			TPE-U(PUR)		
Cable diameter	7.2 mm	10.9 mm	12.4 mm	12.8 mm	7.4 mm	10.4 mm
Bending radius, fixed cable	≥29 mm	≥44 mm	≥50 mm	≥51 mm	≥30 mm	≥42 mm
Bending radius, moving cable	≥54 mm	≥82 mm	≥93 mm	≥128 mm	≥74 mm	≥104 mm
Test conditions cable	Test conditions on request					
Cable structure	10 x 0.34 mm ²	27 x 0.34 mm ²	37 x 0.34 mm ²		10 x 0.34 mm ²	26 x 0.34 mm ²
Nominal cross section conductor	0.34 mm ²					

Materials – Sub-D socket, 37-pin

Material housing	PA
Material cable sheath	PVC, TPE-U(PUR)
Cable sheath colour	Grey
Material insulating sheath	PVC
Note on materials	RoHS compliant
LABS (PWS) conformity	VDMA24364-B2-L

Operating and environmental conditions – Sub-D socket, 37-pin

Ambient temperature	-5 ... 50°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP65, NEMA 4
Note on degree of protection	In mounted state

1) Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with the surrounding industrial environment.

2) Further information www.festo.com/catalogue/... Support/Downloads.

3) Further information www.festo.com/catalogue/... Support/Downloads.

General technical data – Sub-D socket, 44-pin

Cable structure	40 x 0.14 mm ²	44 x 0.14 mm ²
Based on standard	–	DIN 47100
Frequency of connection	–	50
Cable designation	–	Without inscription label holder
Mounting position	Any	–

Datasheet

Technical data – Electrical connection 1, socket Sub-D, 44-pin

Cable structure	40 x 0.14 mm ²	44 x 0.14 mm ²
Electrical connection	44-pin, Socket, Sub-D	–
Type of mounting	4-40UNC	–
Electrical connection 1, connector system	–	Sub-D
Electrical connection 1, function	–	Field device side
Electrical connection 1, connection type	–	Socket
Electrical connection 1, cable outlet	–	Straight, Angled
Electrical connection 1, design	–	Square
Electrical connection 1, number of connections/cores	–	44
Electrical connection 1, used connections/cores	–	44
Electrical connection 1, type of mounting	–	2x screw 4-40 UNC
Cable fitting	–	M20x1.5

Technical data – Electrical connection 2, socket Sub-D, 44-pin

Cable structure	40 x 0.14 mm ²	44 x 0.14 mm ²
Electrical connection 2, function	–	Control side
Electrical connection 2, connection type	–	Cable
Electrical connection 2, connector system	–	Open end
Wire ends	–	Cut off bluntly
Electrical connection 2, number of connections/cores	–	44
Electrical connection 2, used connections/cores	–	44

Technical data – Electrical, Sub-D socket, 44-pin

Cable structure	40 x 0.14 mm ²	44 x 0.14 mm ²	
Degree of protection	IP65, IP67, In mounted state	IP40	IP65, IP67
Operational voltage range DC	≤30 V	0 ... 30 V	
Immunity to surge	–	2.4 kV	
Current rating at 40° C	0.86 A		
Pollution degree	–	2	3
Note on the contamination level	–	In mounted state	
Reverse polarity protection	–	Yes	

Technical data – Cable, Sub-D socket, 44-pin

Cable structure	40 x 0.14 mm ²	44 x 0.14 mm ²
Cable diameter	9.6 mm	10.2 mm
Cable diameter tolerance	±0.5 mm	± 0.3 mm
Cable characteristic	For static applications	Standard
Min. cable bending radius	95	–
Bending radius, fixed cable	–	≥42 mm
Bending radius, moving cable	–	≥126 mm
Test conditions cable	–	Test conditions on request
Nominal cross section conductor	–	0.14 mm ²

Datasheet

Materials – Sub-D socket, 44-pin

Cable structure	40 x 0.14 mm ²	44 x 0.14 mm ²	
Degree of protection	IP65, IP67, In mounted state	IP40	IP65, IP67
Material housing	PBT	Reinforced PC	PA66-GF30
Housing colour	–	Black	
Material screws	–	Brass, nickel-plated	Steel
Material seals	–		NBR
Material electrical contact	Bronze, Gold-plated		
Material cable sheath	PVC		
Cable sheath colour	–	Grey	
Material insulating sheath	–	PVC	
Note on materials	RoHS compliant		
LABS (PWIS) conformity	VDMA24364-B2-L		

Operating and environmental conditions – Sub-D socket, 44-pin

Degree of protection	IP40	IP65, IP67	IP65, IP67, In mounted state
Ambient temperature	-35 ... 80°C		-5 ... 60°C
Ambient temperature with moving cable	-5 ... 80°C		–
Storage temperature	-25 ... 75°C	-35 ... 80°C	–
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive		
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions		
Note on degree of protection	In mounted state		–

1) Corrosion resistance class CRC 0 to Festo standard FN 940070. No corrosion stress. Applies to small, visually irrelevant standard parts, such as threaded pins, retaining rings, clamping sleeves, etc., which are usually only available on the market in phosphated or black oxide finish (oiled if necessary), as well as to ball bearings (for components < CRC3) and plain bearings. Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor application where condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Socket plug pattern Q7

Note on operation	Only operate with external power reduction
Frequency of connection	20
Cable designation	Without inscription label holder

Technical data – Electrical connection 1, socket plug pattern Q7

Electrical connection 1, connector system	Plug pattern Q7
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	2
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	plugged in

Datasheet

Technical data – Electrical connection 2, socket plug pattern Q7

Electrical connection 2, function	Control side
Electrical connection 2, connection type	Twin wire
Electrical connection 2, connector system	Open end
Wire ends	Tin-plated
Electrical connection 2, number of connections/cores	2
Electrical connection 2, used connections/cores	2

Technical data – Electrical, socket plug pattern Q7

Operational voltage range DC	0 ... 30 V
Immunity to surge	1.2 kV
Current rating at 40° C	0.3 A
Reverse polarity protection	No
Protective conductor connection	Not provided
Shielding	No

Technical data – Cable, socket plug pattern Q7

Cable diameter	1.1 mm
Cable characteristic	Basic
Bending radius, fixed cable	≥11 mm
Bending radius, moving cable	≥16.5 mm
Test conditions cable	Test conditions on request
Cable structure	2 x 0.08 mm ²
Nominal cross section conductor	0.08 mm ²

Materials – Socket plug pattern Q7

Material housing	Reinforced PA
Housing colour	Black
Material electrical contact	Gold-plated copper alloy
Material insulating sheath	PVC
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Operating and environmental conditions – Socket plug pattern Q7

Ambient temperature	0 ... 50°C
Storage temperature	-20 ... 70°C
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
Degree of protection	IP40

1) Corrosion resistance class CRC 0 to Festo standard FN 940070. No corrosion stress. Applies to small, visually irrelevant standard parts, such as threaded pins, retaining rings, clamping sleeves, etc., which are usually only available on the market in phosphated or black oxide finish (oiled if necessary), as well as to ball bearings (for components < CRC3) and plain bearings.

2) More information www.festo.com/catalogue/... Support/Downloads.

General technical data - socket plug pattern S

Cable designation	Without inscription label holder
Mounting position	Any

Datasheet

Technical data – Electrical connection 1, socket plug pattern S

Electrical connection 1, connector system	Plug pattern S
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	2
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	Snap-locking

Technical data – Electrical connection 2, socket plug pattern S

Electrical connection 2, connection type	2x single cores	Cable
Electrical connection 2, function	Control side	
Electrical connection 2, connector system	Open end	
Wire ends	Cut off bluntly	Stripped, Cut off bluntly
Electrical connection 2, number of connections/cores	2	
Electrical connection 2, used connections/cores	2	

Technical data – Electrical, socket plug pattern S

Operational voltage range DC	0 ... 60 V
Current rating at 40° C	3 A

Technical data – Cable, socket plug pattern S

Electrical connection 2, connection type	2x single cores	Cable
Cable diameter	1.3 mm	3.4 mm
Cable characteristic	Standard	For static applications
Cable structure	2 x 0.14 mm ²	
Nominal cross section conductor	0.14 mm ²	

Materials – Socket plug pattern S

Electrical connection 2, connection type	2x single cores	Cable
Material housing	POM	
Housing colour	Black	
Material electrical contact	Copper alloy, Tin-plated	
Material cable sheath	–	TPE-U(PUR)
Cable sheath colour	–	Grey
Material insulating sheath	PVC	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364-B2-L	

Datasheet

Operating and environmental conditions – Socket plug pattern S

Ambient temperature	-5 ... 60°C
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP40
Note on degree of protection	In mounted state

2) More information www.festo.com/catalogue/... Support/Downloads.

3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Connection pattern HP

Note on operation	Only operate with external power reduction
Max. number of valve coils	1
Cable designation	Without inscription label holder
Mounting position	Any

Technical data – Electrical connection 1, plug pattern HP

Electrical connection 1, connector system	Plug pattern HP
Electrical connection 1, function	Field device side, Switching output
Electrical connection 1, connection type	Cable with socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Square
Electrical connection 1, number of connections/cores	2
Electrical connection 1, used connections/cores	2
Electrical connection 1, type of mounting	Push-pull with interlock against unintentional pulling

Technical data – Electrical connection 2, plug pattern HP

Electrical connection 2, function	Power supply, Control side
Electrical connection 2, connection type	2x single cores
Electrical connection 2, connector system	Open end
Electrical connection 2, number of connections/cores	2
Electrical connection 2, used connections/cores	2

Technical data – Electrical, plug pattern HP

Operational voltage range DC	0 ... 24 V
Shielding	No

Technical data – Cable, plug pattern HP

Cable diameter	0.96 mm
Cable characteristic	For static applications
Bending radius, fixed cable	≥11 mm

Datasheet

Materials – Plug pattern HP

Material housing	PEEK
Housing colour	Grey
Material insulating sheath	PVC
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 zone III

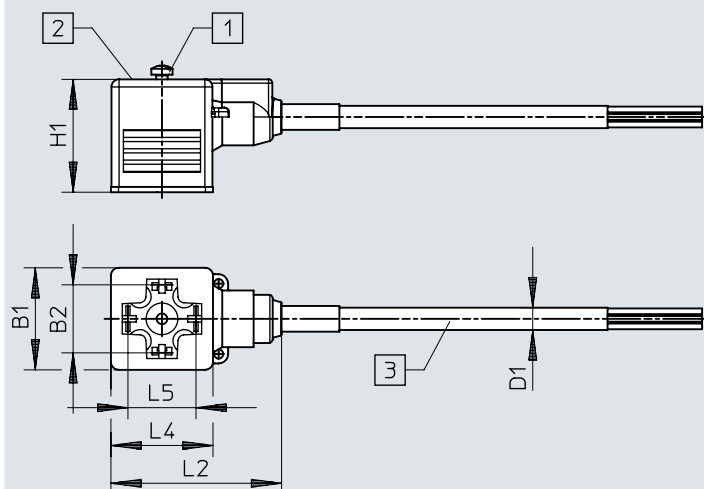
Operating and ambient conditions – Plug pattern HP

Ambient temperature	0 ... 50°C
Storage temperature	-20 ... 70°C
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress
Degree of protection	IP40

1) Corrosion resistance class CRC 0 to Festo standard FN 940070. No corrosion stress. Applies to small, visually irrelevant standard parts, such as threaded pins, circlips, clamping sleeves, etc., which are usually only available on the market in phosphated or burnished version (and possibly oiled), as well as to ball bearings (for components < CRC3) and plain bearings.

Dimensions

Dimensions – NEBV-A1W3-...-LE3

[Download CAD data](#) www.festo.com


- [1] Retaining screw M3
- [2] Signal status indication for version P
- [3] Cable, length depending on the order

	B1	B2	D1 Ø	H1	L2	L4	L5
NEBV-A1W3-...-LE3	27	18	5,9	30	45	27	18

Dimensions

Dimensions – NEBV-A1W3-...-M12W3

Download CAD data www.festo.com

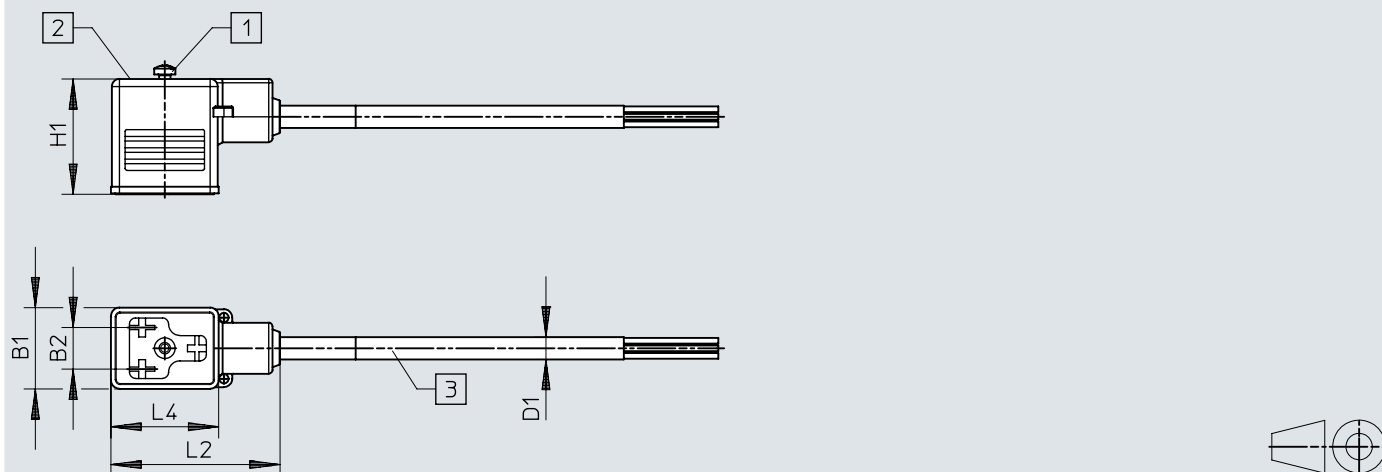
[1] Retaining screw M3
[2] Signal status indication for version P
[3] Cable, length depending on the order

	B1	B2	D1 Ø	D2	D3 Ø	H1	H2	L2	L3	L4	L5	1
NEBV-A1W3-...-M12W3	27	18	5,9	M12x1	15	30	31	45	39	27	18	13

Dimensions

Dimensions – NEBV-B2W3-...-LE3, open end

Download CAD data www.festo.com

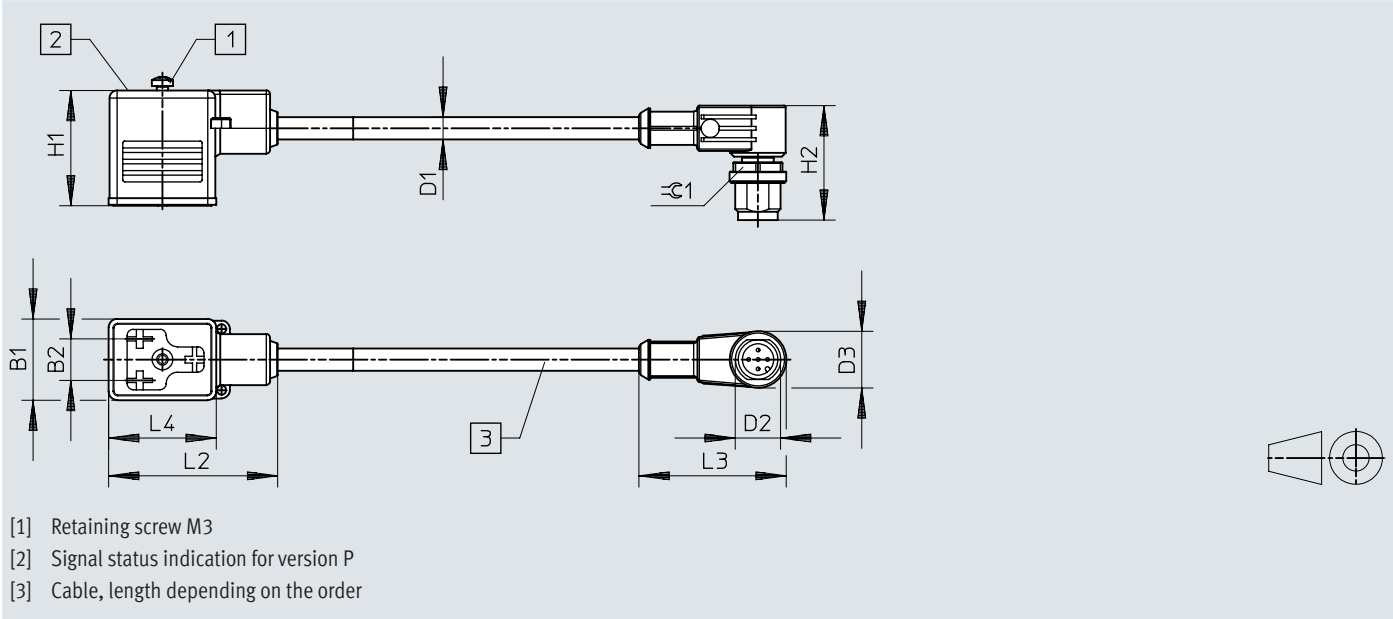


- [1] Retaining screw M3
- [2] Signal status indication for version P
- [3] Cable, length depending on the order

	B1	B2	D1 Ø	H1	L2	L4
NEBV-B2W3-...-LE3	21,5	11	5,9	30,5	45	29

Dimensions

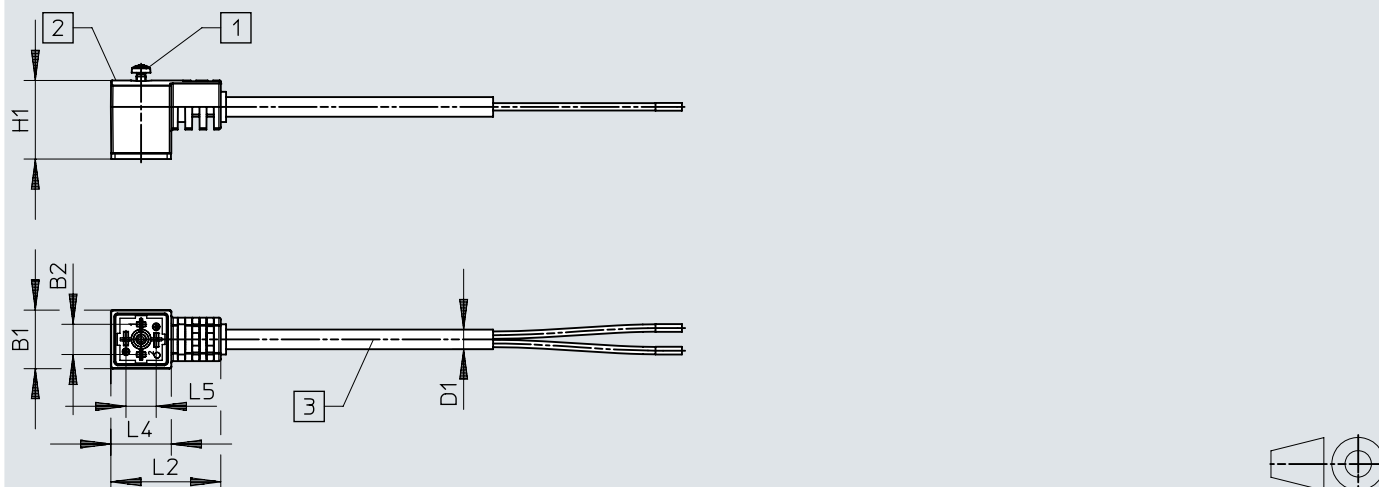
Dimensions – NEBV-B2W3-...-M12W3, plug M12x1 Download CAD data www.festo.com



	B1	B2	D1 Ø	D2	D3 Ø	H1	H2	L2	L3	L4	≙C1
NEBV-B2W3...-M12W3	21,5	11	5,9	M12x1	15	30,5	31	45	39	29	13

Dimensions

Dimensions – NEBV-C1SW2L-...-S9

[Download CAD data](http://www.festo.com)


- [1] Retaining screw M3
 [2] Signal status indication
 [3] Cable, length 0.5 ... 30 m depending on the order

	B1	B2	D1 Ø	H1	L2	L4	L5
NEBV-C1SW2L-...-LE2-S9	15,5	8	5,2	20,8	29	16	8

Dimensions

Dimensions – NEBV-C1SW3-...-S9

Download CAD data www.festo.com

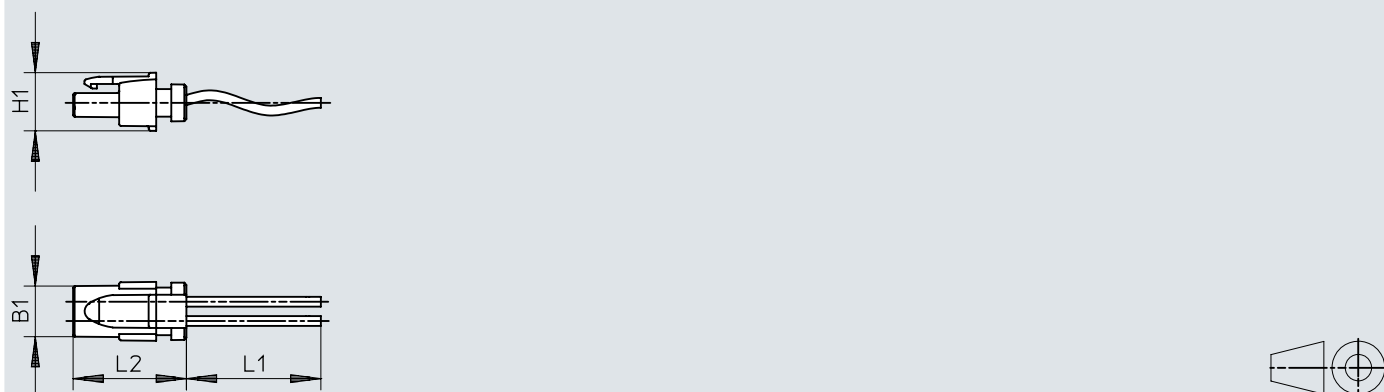
The technical drawing shows two views of the cable assembly. The top view is a side profile showing the mounting bracket (1) with a retaining screw (2) and the cable (3) extending from it. Dimensions H1 and B2 are indicated. The bottom view is a front view of the cable connector, showing dimensions B1, B2, L2, L4, L5, and D1. A small circular detail view is shown to the right of the front view.

[1] Retaining screw M2.5
[2] Display field LED depending on order
[3] Cable, length 0.5 ... 30 m depending on the order

	B1	B2	D1 Ø	H1	L2	L4	L5
NEBV-C1SW3-...-LE3-S9	15,5	8	5,2	20,8	29	16	8

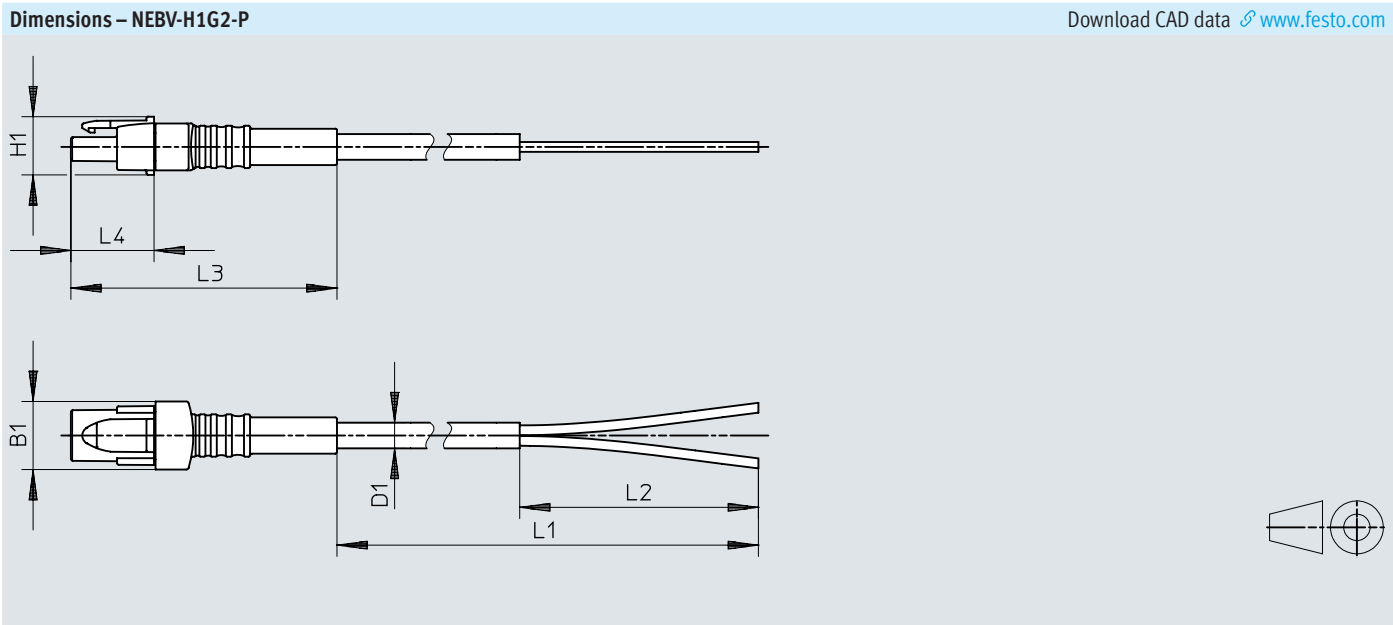
Dimensions

Dimensions – NEBV-H1G2-KN

Download CAD data www.festo.com

	B1	H1	L1	L2
NEBV-H1G2-KN-0.5-N-LE2	8,3	8,4	500	13
NEBV-H1G2-KN-1-N-LE2			1000	
NEBV-H1G2-KN-2.5-N-LE2			2500	
NEBV-H1G2-KN-5-N-LE2			5000	

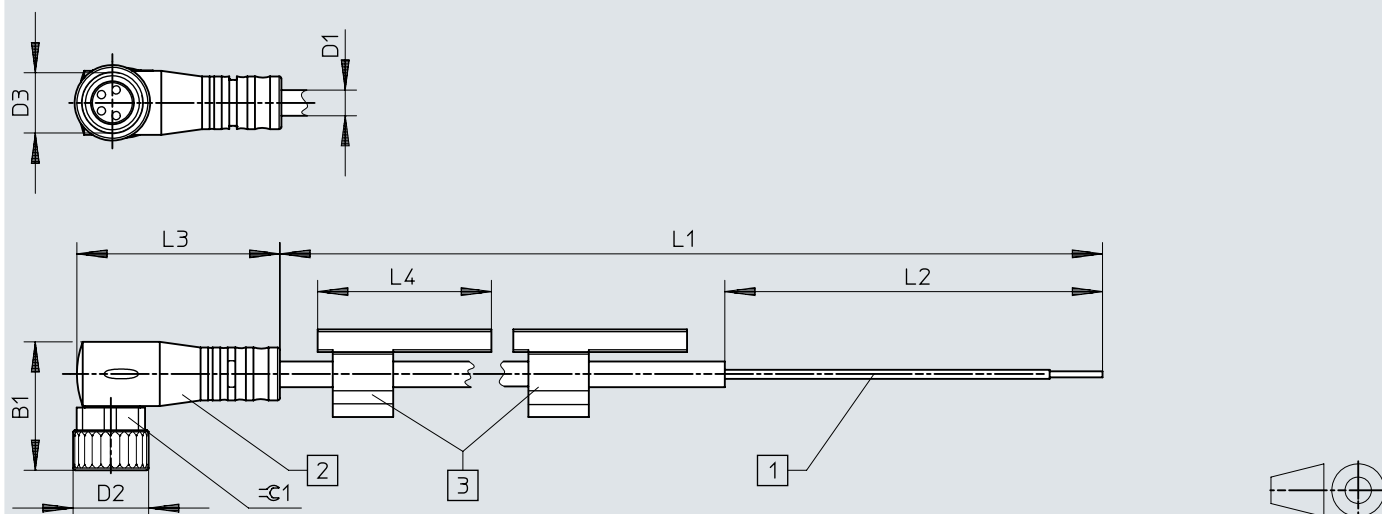
Dimensions



	B1	D1 Ø	H1	L1	L2	L3	L4
NEBV-H1G2-P-0.5-N-LE2	9	3,4	8,4	500	50	33,2	9
NEBV-H1G2-P-1-N-LE2				1000			
NEBV-H1G2-P-2.5-N-LE2				2500			
NEBV-H1G2-P-5-N-LE2				5000			

Dimensions

Dimensions – NEBV-M8W4L-E-...-LE2

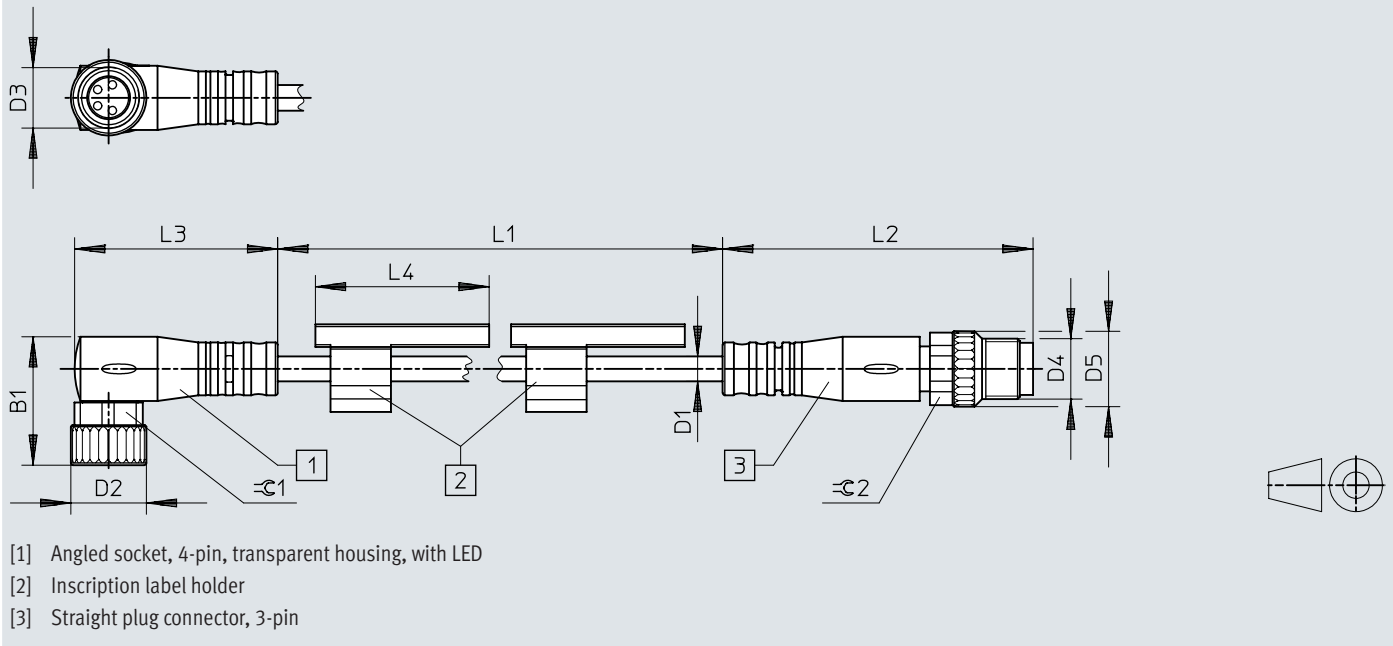
[Download CAD data](http://www.festo.com)


- [1] Open cable end, 2-core
 [2] Angled socket, 4-pin, transparent housing, with LED
 [3] Inscription label holder

	B1	D1 ø	D2 ø	D3	L1	L2	L3	L4	⌀1
NEBV-M8W4L-E-2.5-LE2	17	3,4	10	M8x1	2500	50	26,9	23	9
NEBV-M8W4L-E-5-LE2					5000				
NEBV-M8W4L-E-10-LE2					10000				

Dimensions

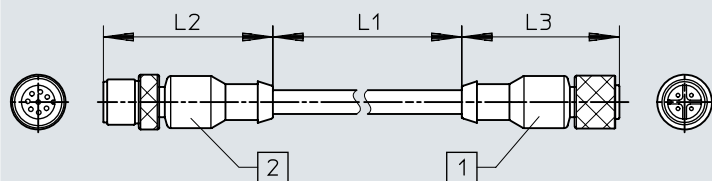
Dimensions – NEBV-M8W4L-E-...-M8G3 Download CAD data www.festo.com



	B1	D1 ø	D2 ø	D3	D4	D5 ø	L1	L2	L3	L4	⌀1	⌀2
NEBV-M8W4L-E-2.5-M8G3	17	3,3	10	M8x1	M8x1	10	2500	41,1	26,9	23	9	9
NEBV-M8W4L-E-5-M8G3							5000					
NEBV-M8W4L-E-10-M8G3							10000					

Dimensions

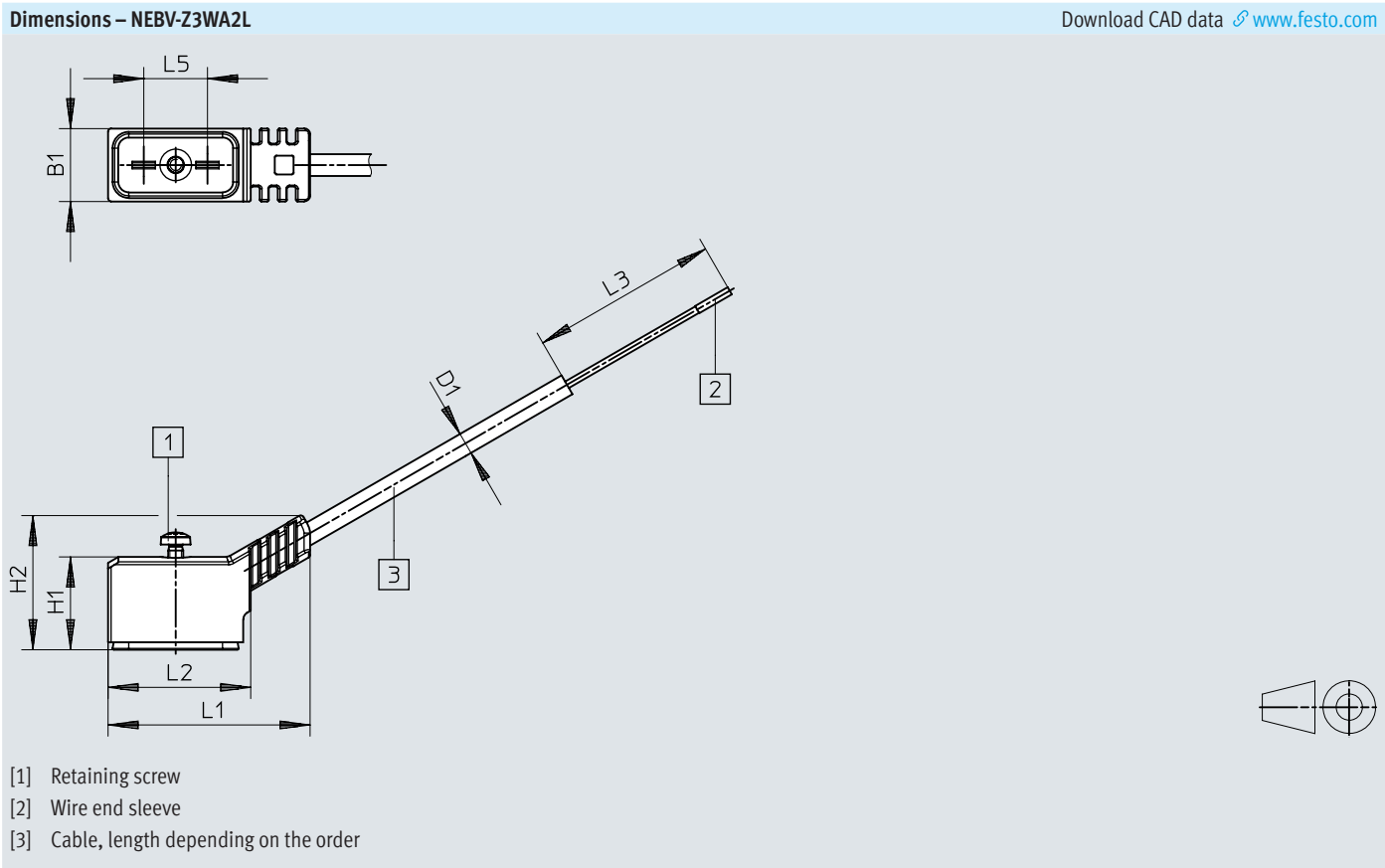
Dimensions – NEBV-M12G8-K-...-M12G4

[Download CAD data](#) www.festo.com


- [1] Plug M12x1, 4-pin
[2] Socket M12x1, 8-pin

	L1	L2	L3
NEBV-M12G8-K-2-M12G4	2000	44,9	41,7
NEBV-M12G8-K-5-M12G4	5000	44,9	41,7

Dimensions

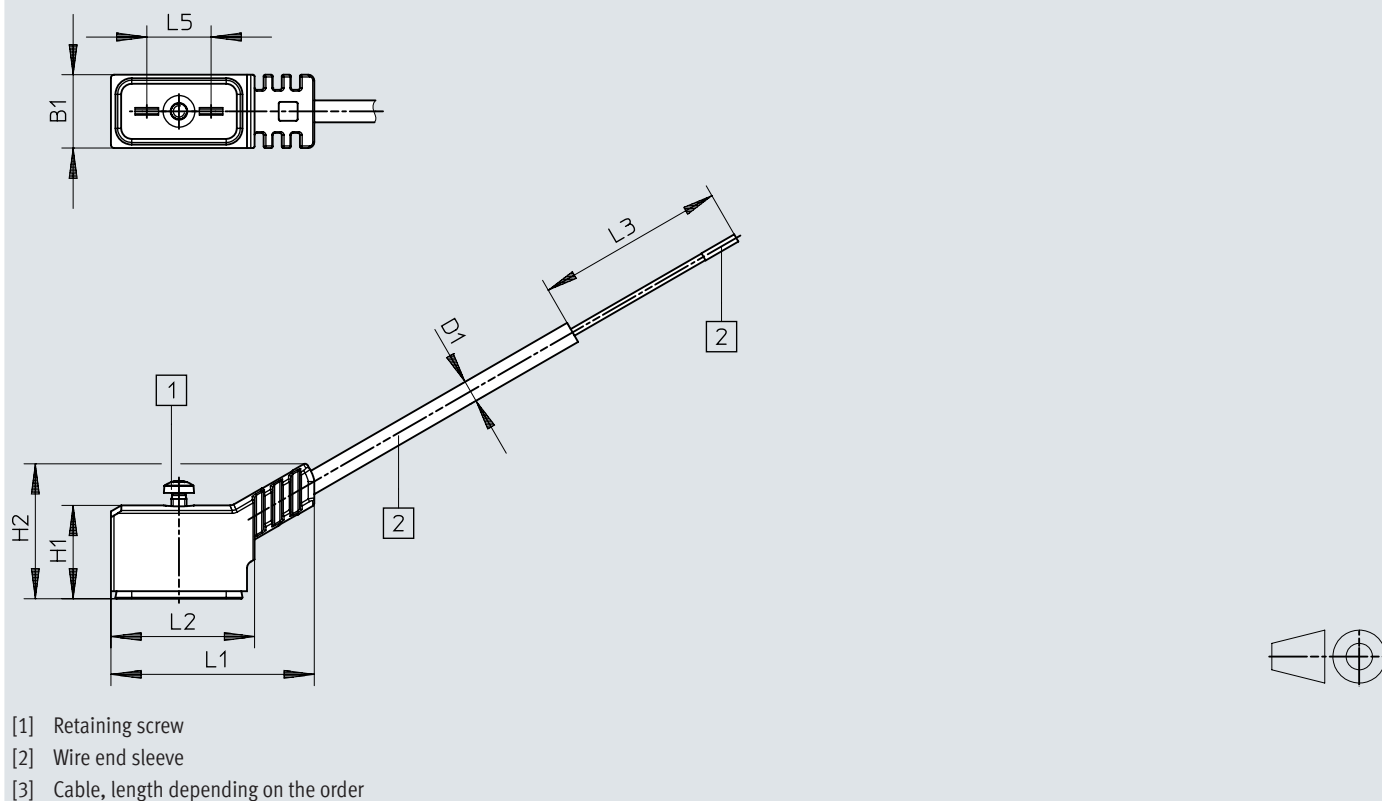


	B1	D1 Ø	H1	H2	L1	L2	L3	L5
NEBV-Z3WA2L...-LE2-S1	9,7	2,9	12	17,5	26,9	19	50	8,4

Dimensions

Dimensions – NEBV-Z4WA2L, open end

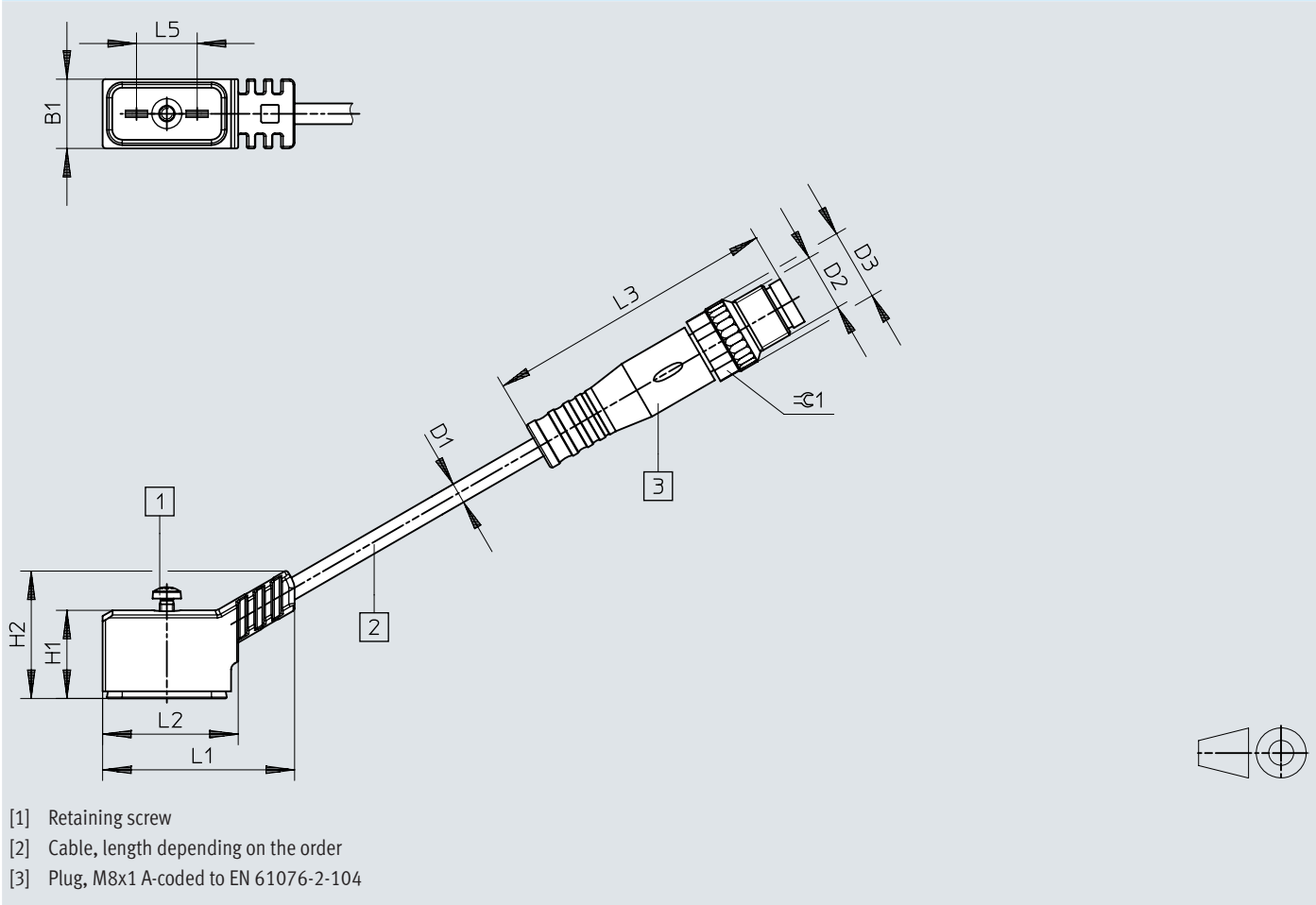
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	B1	D1 Ø	H1	H2	L1	L2	L3	L5
NEBV-Z4WA2L-...-LE2-S1	9,7	2,9	12	17,5	26,9	19	50	8,4

Dimensions

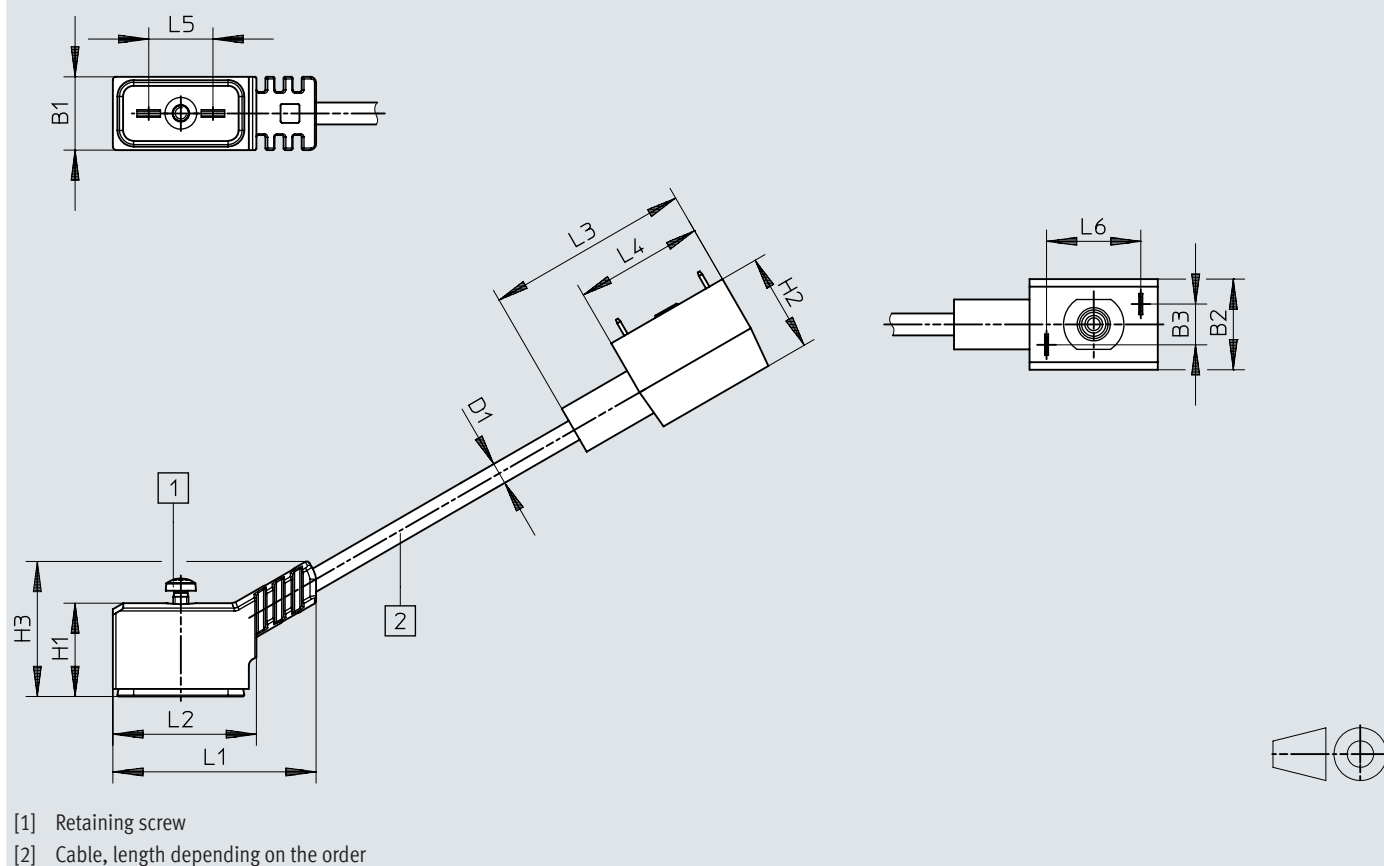
Dimensions – NEBV-Z4WA2L, plug M8x1 Download CAD data www.festo.com



	B1	D1 Ø	D2	D3 Ø	H1	H2	L1	L2	L3	L5	≙C1
NEBV-Z4WA2L-...-M8G3-S1	9,7	2,9	M8x1	10	12	17,5	26,9	19	41,1	8,4	9

Dimensions

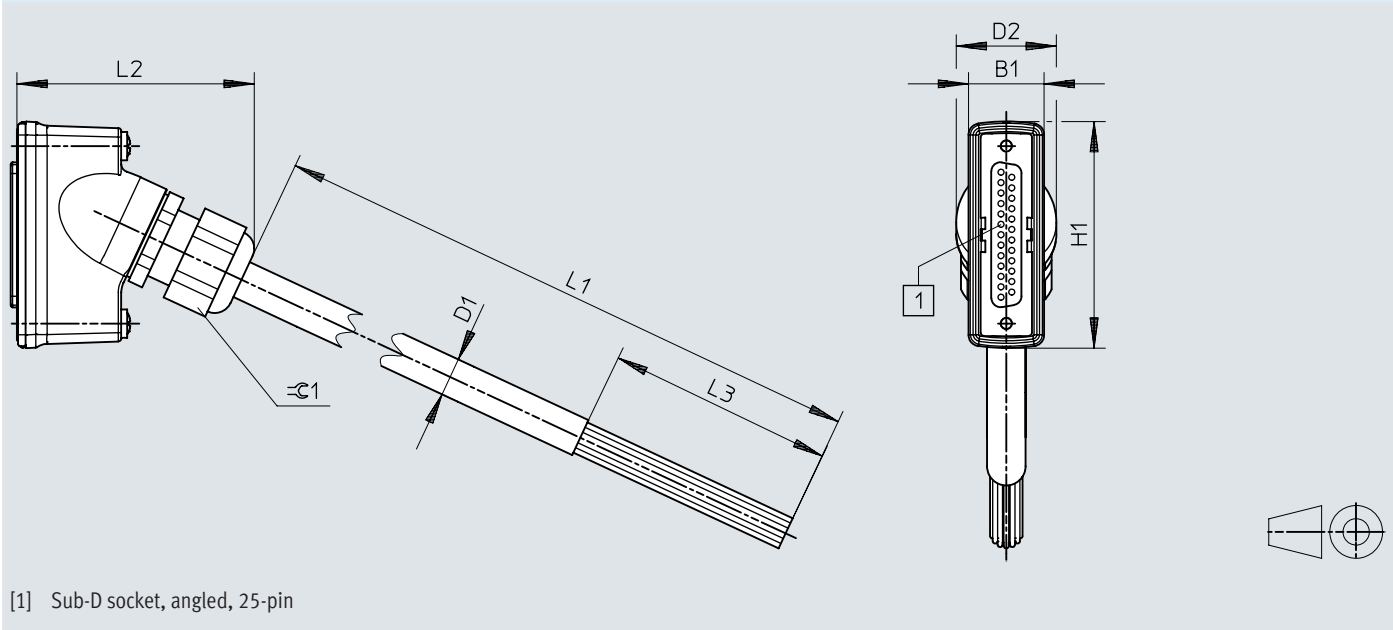
Dimensions – NEBV-...-Z1W2-S1

[Download CAD data](http://www.festo.com) www.festo.com


	B1	B2	B3	D1 Ø	H1	H2	H3	L1	L2	L3	L4	L5	L6
NEBV-Z4WA2-...-Z1W2-S1	9,7	12	5,4	2,9	12	13	17,5	26,9	19	27	17	8,4	12,5

Dimensions

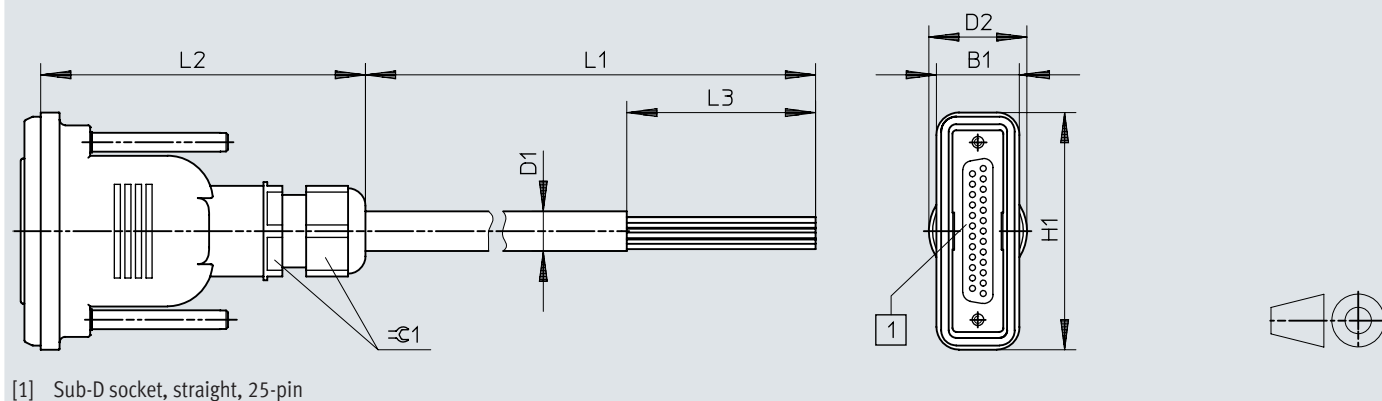
Dimensions – NEBV-S1WA25/NEBV-C-S1WA25 [Download CAD data](#) www.festo.com



	B1	D1 Ø	D2 Ø	H1	L1	L2	L3	≡G1
NEBV-S1WA25-K-2.5-N-LE25-S9	20	10,2	26,5	60	2500	60	60	24
NEBV-C-S1WA25HS-K-2.5-N-LE25-S10					5000			
NEBV-S1WA25-K-5-N-LE25-S9								
NEBV-C-S1WA25HS-K-5-N-LE25-S10								
NEBV-S1WA25-K-10-N-LE25-S9								
NEBV-C-S1WA25HS-K-10-N-LE25-S10					10000			

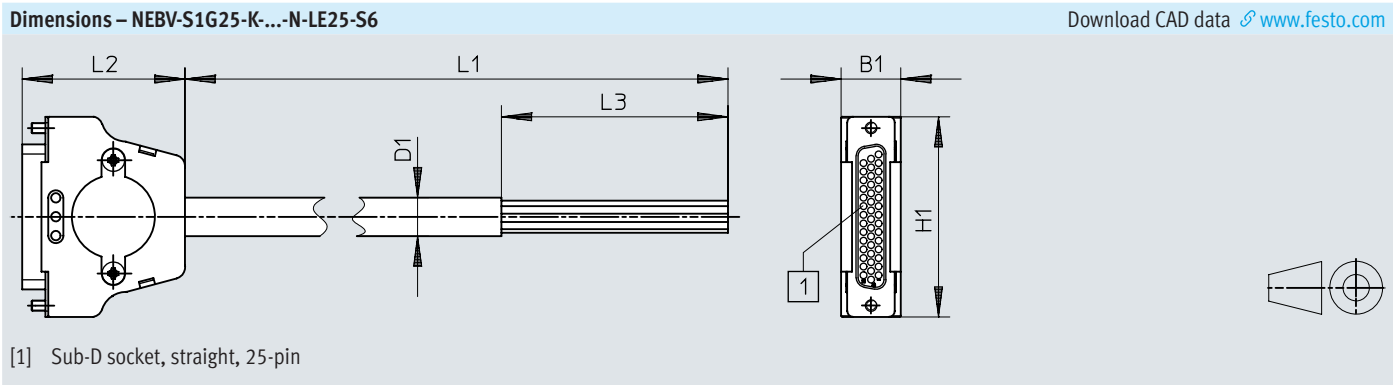
Dimensions

Dimensions – NEBV-S1G25-K-...

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	B1	D1 Ø	D2 Ø	H1	L1	L2	L3	±C1
NEBV-S1G25-K-2,5-N-LE15	22	9	26	62,8	2500	86±0,5	60	24
NEBV-S1G25-K-5-N-LE15					5000			
NEBV-S1G25-K-10-N-LE15					10000			
NEBV-S1G25-K-2,5-N-LE25	22	10,4	26	62,8	2500	86±0,5	50	24
NEBV-S1G25-K-5-N-LE25					5000			
NEBV-S1G25-K-10-N-LE25					10000			

Dimensions

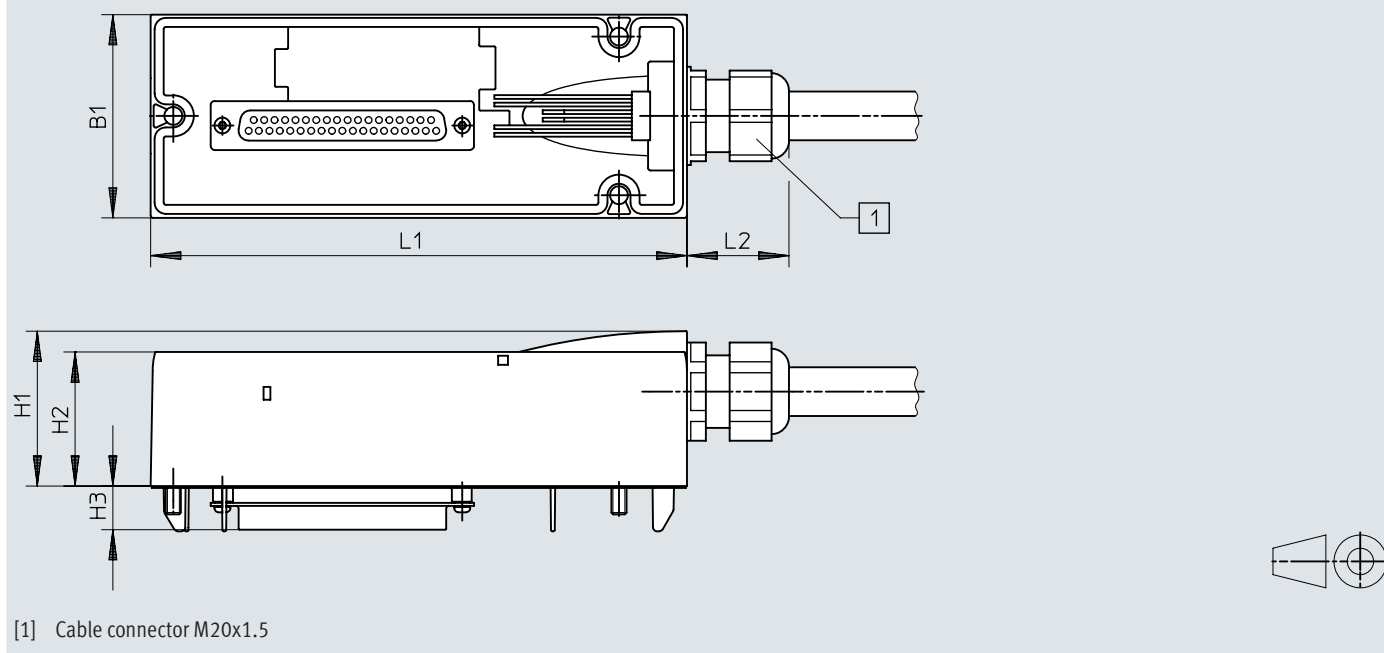


	B1	D1 Ø	H1	L1	L2	L3
NEBV-S1G25-K-2.5-N-LE25-S6	15,8	10,2	53	2500	43,1	60
NEBV-S1G25-K-5-N-LE25-S6				5000		
NEBV-S1G25-K-10-N-LE25-S6				10000		

Dimensions

Dimensions – NEBV-S1W37

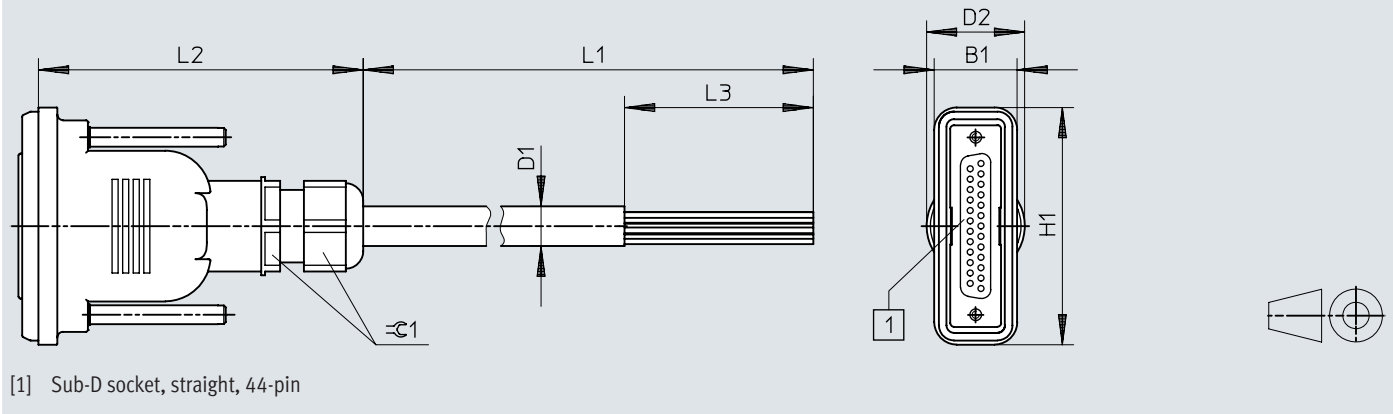
Download CAD data www.festo.com



	B1	H1	H2	H3	L1	L2
NEBV-...	54	41	36	11,6	142	27

Dimensions

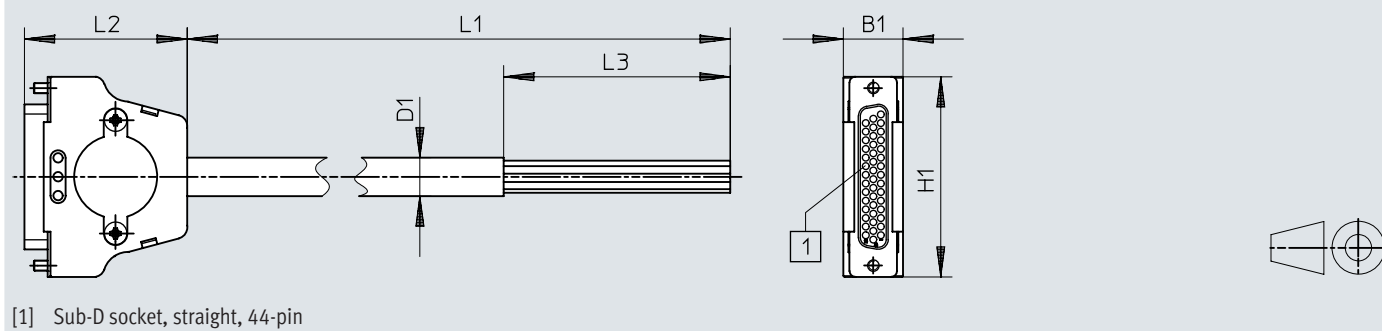
Dimensions – NEBV-S1G44-K-...-N-LE39 Download CAD data www.festo.com



	B1	D1 Ø	D2 Ø	H1	L1	L2	L3	H1
NEBV-S1G44-K-2.5-N-LE39	22	9,6	26	62,8	85±5	2500	65±5	24
NEBV-S1G44-K-5-N-LE39						5000		
NEBV-S1G44-K-10-N-LE39						10000		

Dimensions

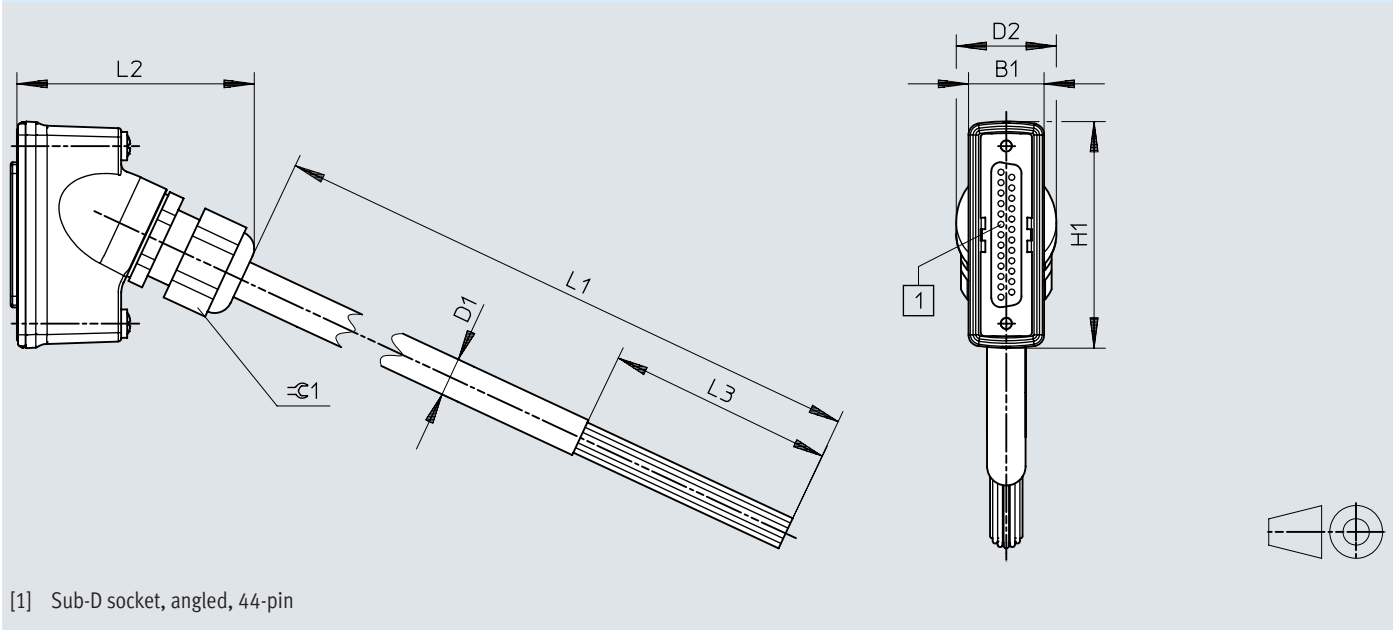
Dimensions – NEBV-S1G44-K-...-N-LE44-S6

[Download CAD data](http://www.festo.com)


	B1	D1 Ø	H1	L1	L2	L3
NEBV-S1G44-K-2.5-N-LE44-S6	15,8	10,2	53	2500	43,1	60
NEBV-S1G44-K-5-N-LE44-S6				5000		
NEBV-S1G44-K-10-N-LE44-S6				10000		

Dimensions

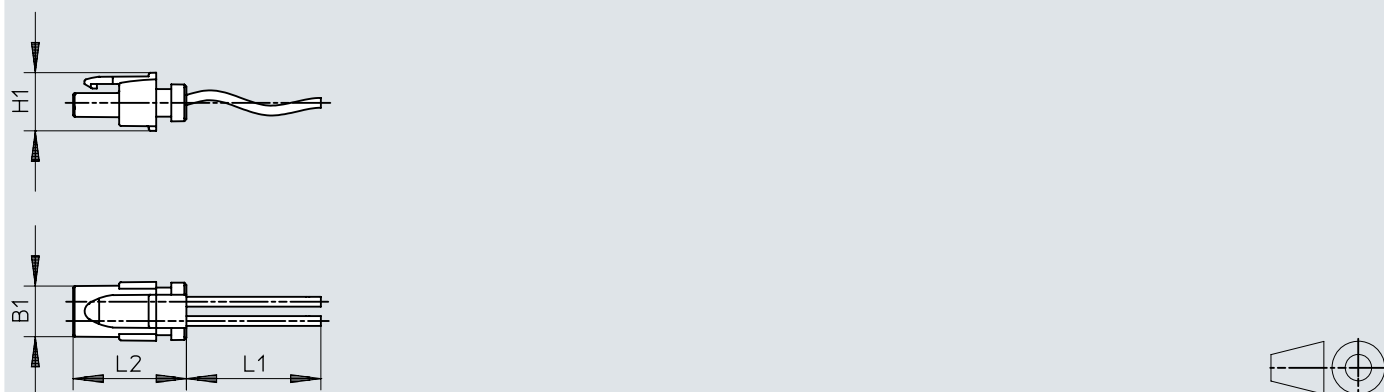
Dimensions – NEBV-C-S7/NEBV-S1WA44 Download CAD data www.festo.com



	B1	D1 ø	D2 ø	H1	L1	L2	L3	90°
NEBV-C-S7WA44HS-K-2.5-N-LE36-S10	20	9,6	26	60	2500	60	60	–
NEBV-C-S7WA44HS-K-5-N-LE36-S10					5000			
NEBV-C-S7WA44HS-K-10-N-LE36-S10					10000			
NEBV-S1WA44-K-2.5-N-LE44-S9	20	10,2	26,5	60	2500	60	60	24
NEBV-S1WA44-K-5-N-LE44-S9					5000			
NEBV-S1WA44-K-10-N-LE44-S9					10000			

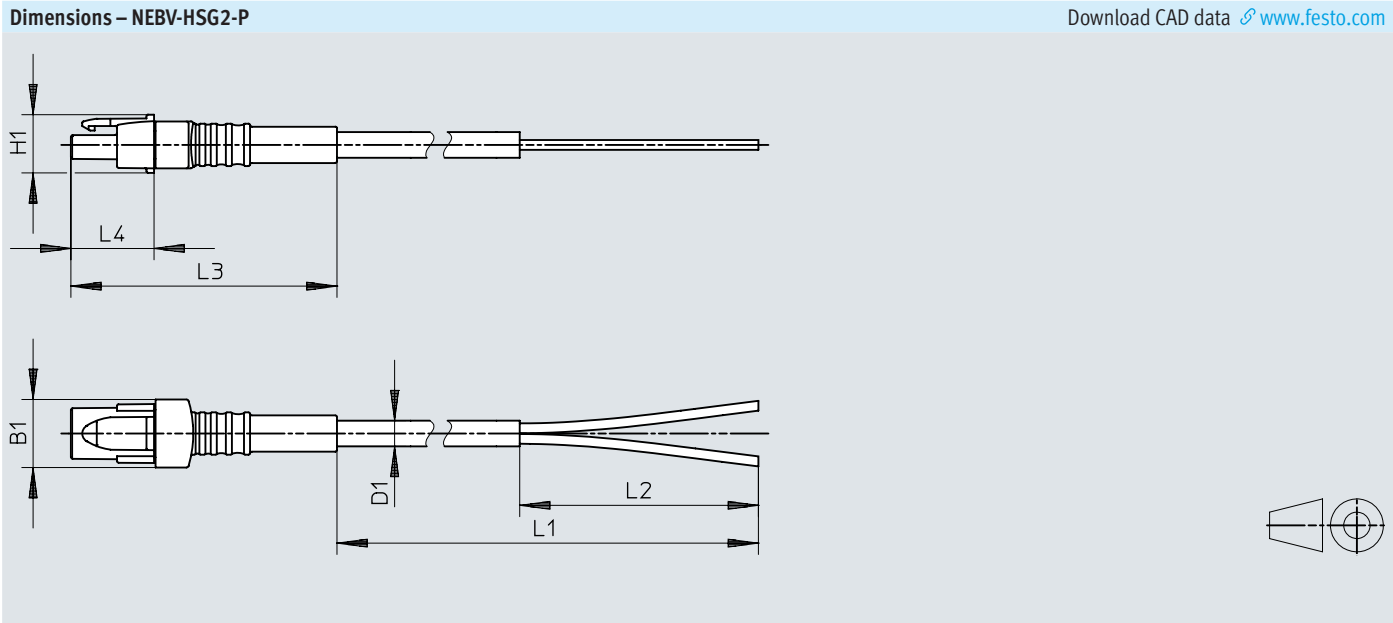
Dimensions

Dimensions – NEBV-HSG2-KN

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	B1	H1	L1	L2
NEBV-HSG2-KN-0.5-N-LE2	7,8	7,7	500	15
NEBV-HSG2-KN-1-N-LE2			1000	
NEBV-HSG2-KN-2.5-N-LE2			2500	
NEBV-HSG2-KN-5-N-LE2			5000	

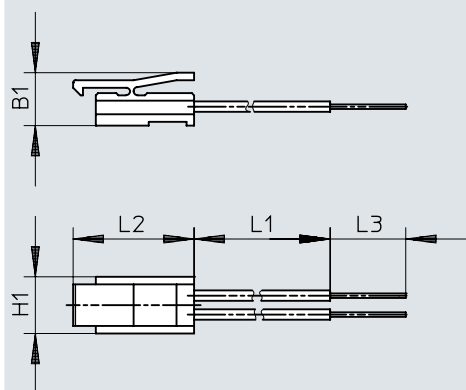
Dimensions



	B1	D1 Ø	H1	L1	L2	L3	L4
NEBV-HSG2-P-0.5-N-LE2	9	3,4	7,7	500	50	35,2	11
NEBV-HSG2-P-1-N-LE2				1000			
NEBV-HSG2-P-2.5-N-LE2				2500			
NEBV-HSG2-P-5-N-LE2				5000			

Dimensions

Dimensions – NEBV-HPG2

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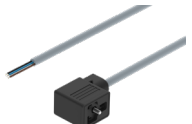
	B1	H1	L1	L2	L3
NEBV-HPG2-PN-0.3-N-LE2	7	7,5	300	16	10

Ordering data

Ordering data – Socket type A, EN 175301-803

	Switching status indication	Electrical connection 2, connector system	Cable length	Product weight	Part no.	Type
		M12x1, A-coded to EN 61076-2-101	0.3 m	60 g	3579461	NEBV-A1W3-K-0.3-N-M12W3
			0.6 m	100 g	3579462	NEBV-A1W3-K-0.6-N-M12W3
		Open end		80 g	3579466	NEBV-A1W3-K-0.6-N-LE3
	Yellow LED	M12x1, A-coded to EN 61076-2-101	0.3 m	60 g	3679771	NEBV-A1W3F-P-K-0.3-N-M12W3
			0.6 m	100 g	3679772	NEBV-A1W3F-P-K-0.6-N-M12W3
		Open end		80 g	3679776	NEBV-A1W3F-P-K-0.6-N-LE3

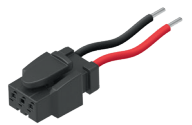
Ordering data – Socket type B, industry standard 11 mm

	Switching status indication	Electrical connection 2, connector system	Cable length	Product weight	Part no.	Type
		M12x1, A-coded to EN 61076-2-101	0.3 m	60 g	3579463	NEBV-B2W3-K-0.3-N-M12W3
			0.6 m	100 g	3579464	NEBV-B2W3-K-0.6-N-M12W3
		Open end		80 g	3579468	NEBV-B2W3-K-0.6-N-LE3
	Yellow LED	M12x1, A-coded to EN 61076-2-101	0.3 m	60 g	3679773	NEBV-B2W3F-P-K-0.3-N-M12W3
			0.6 m	100 g	3679774	NEBV-B2W3F-P-K-0.6-N-M12W3
		Open end		80 g	3679778	NEBV-B2W3F-P-K-0.6-N-LE3

Ordering data – Socket type C, narrow design

	Signal status display	Electrical connection 2, connector system	Cable length	Product weight	Part no.	Type
		Open end	2.5 m	125 g	8032628	NEBV-C1SW3-K-2.5-N-LE3-S9
			5 m	235 g	8032629	NEBV-C1SW3-K-5-N-LE3-S9
			2.5 m	120 g	8032623	NEBV-C1SW2L-P-K-2.5-N-LE2-S9
	Yellow LED		5 m	230 g	8032626	NEBV-C1SW2L-P-K-5-N-LE2-S9
			10 m	440 g	8032627	NEBV-C1SW2L-P-K-10-N-LE2-S9

Ordering data – Socket plug pattern H

	Cable characteristic	Electrical connection 2, connection type	Cable length	Product weight	Part no.	Type
	For static applications	Cable	0.5 m	8 g	566658	NEBV-H1G2-P-0.5-N-LE2
			1 m	16 g	566659	NEBV-H1G2-P-1-N-LE2
			2.5 m	35 g	566660	NEBV-H1G2-P-2.5-N-LE2
			5 m	70 g	566661	NEBV-H1G2-P-5-N-LE2
	Standard	2x single cores	0.5 m	4 g	566654	NEBV-H1G2-KN-0.5-N-LE2
			1 m	7 g	566655	NEBV-H1G2-KN-1-N-LE2
			5 m	31 g	566657	NEBV-H1G2-KN-5-N-LE2

Ordering data – M8x1 socket, A-coded

	Electrical connection	Material cable sheath	Cable length	Product weight	Part no.	Type
	4-pin / 2-core, Angled socket/cable, M8x1	TPE-U(PUR)	2.5 m	45 g	562471	NEBV-M8W4L-E-2.5-LE2
			5 m	85 g	562472	NEBV-M8W4L-E-5-LE2
			10 m	165 g	562473	NEBV-M8W4L-E-10-LE2
	4-pin / 3-pin, Angled socket/straight plug, M8x1 / M8x1	PUR	2.5 m	50 g	562468	NEBV-M8W4L-E-2.5-M8G3

Ordering data

Ordering data – M8x1 socket, A-coded						
	Electrical connection	Material cable sheath	Cable length	Product weight	Part no.	Type
	4-pin / 3-pin, Angled socket/straight plug, M8x1 / M8x1	TPE-U(PUR)	5 m	90 g	562469	NEBV-M8W4L-E-5-M8G3
			10 m	170 g	562470	NEBV-M8W4L-E-10-M8G3

Ordering data – M12x1 socket, A-coded								
	Design	Electrical connection 1, used connections/cores	Cable length	Cable length 1	Cable length 2	Product weight	Part no.	Type
		4	2 m				553575	NEBV-M12G8-K-2-M12G4
			5 m				553576	NEBV-M12G8-K-5-M12G4
	Y-distributor with cables on both sides	5		2.5 m	0.5 m		547888	NEBV-M12G8-KD-3-M12G4

Ordering data – Socket plug pattern ZC, self-tapping screw					
	Additional functions	Cable length	Product weight	Part no.	Type
	Holding current reduction, Protective circuit	2.5 m	50 g	8047676	NEBV-Z3WA2L-R-E-2.5-N-LE2-S1
		5 m	90 g	8047677	NEBV-Z3WA2L-R-E-5-N-LE2-S1
		10 m	170 g	8047675	NEBV-Z3WA2L-R-E-10-N-LE2-S1

Ordering data – Socket plug pattern ZC, metric screw								
	Electrical connection 2, connector system	Operational voltage range DC	Cable length	Product weight	Additional functions	Part no.	Type	
	Connection pattern ZB, self-tapping screw M8x1, A-coded to EN 61076-2-104	0 ... 30 V 20.4 ... 26.4 V	0.2 m	18 g		8047681	NEBV-Z4WA2-E-0.2-N-Z1W2-S1	
					Holding current reduction, Protective circuit	8047682	NEBV-Z4WA2L-R-E-0.2-N-Z1W2-S1	
			0.5 m			8047683	NEBV-Z4WA2L-R-E-0.5-N-M8G3-S1	
					Protective circuit	8047673	NEBV-Z4WA2L-P-E-0.5-N-M8G3-S1	
			2.5 m		54 g	Holding current reduction, Protective circuit	8047684	NEBV-Z4WA2L-R-E-2.5-N-M8G3-S1
						Protective circuit	8047674	NEBV-Z4WA2L-P-E-2.5-N-M8G3-S1
	Open end		50 g	Holding current reduction, Protective circuit	8047679	NEBV-Z4WA2L-R-E-2.5-N-LE2-S1		
				Protective circuit	8047671	NEBV-Z4WA2L-P-E-2.5-N-LE2-S1		
			5 m	90 g	Holding current reduction, Protective circuit	8047680	NEBV-Z4WA2L-R-E-5-N-LE2-S1	

Ordering data

Ordering data – Socket plug pattern ZC, metric screw

	Electrical connection 2, connector system	Operational voltage range DC	Cable length	Product weight	Additional functions	Part no.	Type
	Open end	20.4 ... 26.4 V	5 m	90 g	Protective circuit	8047672	NEBV-Z4WA2L-P-E-5-N-LE2-S1
			10 m	170 g	Holding current reduction, Protective circuit	8047678	NEBV-Z4WA2L-R-E-10-N-LE2-S1
					Protective circuit	8047670	NEBV-Z4WA2L-P-E-10-N-LE2-S1

Ordering data – Sub-D socket, easy to clean

	Special characteristics	Electrical connection 1, cable outlet	Electrical connection 1, number of connections/ cores	Cable length	Product weight	Part no.	Type
	Easy to clean	Angled	25	2.5 m	460 g	2265131	NEBV-C-S1WA25HS-K-2.5-N-LE25-S10
				5 m	860 g	2265132	NEBV-C-S1WA25HS-K-5-N-LE25-S10
				10 m	1,660 g	2265133	NEBV-C-S1WA25HS-K-10-N-LE25-S10
			44	2.5 m	500 g	577376	NEBV-C-S7WA44HS-K-2.5-N-LE36-S10
				5 m	900 g	577377	NEBV-C-S7WA44HS-K-5-N-LE36-S10
				10 m	1,800 g	577378	NEBV-C-S7WA44HS-K-10-N-LE36-S10

Ordering data – Sub-D socket, 25-pin

Ordering data - Sub-D socket, 25-pin

	Degree of protection	Cable structure	Electrical connection 1, cable outlet	Cable length	Product weight	Part no.	Type	
	IP40	25 x 0.34 mm ²	Straight	2.5 m	490 g	575417	NEBV-S1G25-K-2.5-N-LE25-S6	
				5 m	930 g	575418	NEBV-S1G25-K-5-N-LE25-S6	
				10 m	1,820 g	575419	NEBV-S1G25-K-10-N-LE25-S6	
	IP65, IP67, In mounted state	15 x 0.34 mm ²		2.5 m	370 g	538222	NEBV-S1G25-K-2.5-N-LE15	
				5 m	670 g	538223	NEBV-S1G25-K-5-N-LE15	
				10 m	1,270 g	538224	NEBV-S1G25-K-10-N-LE15	
		20 x 0.25 mm ² + 5 x 0.34 mm ²		2.5 m	490 g	538225	NEBV-S1G25-K-2.5-N-LE25	
				5 m	910 g	538226	NEBV-S1G25-K-5-N-LE25	
				10 m	1,750 g	538227	NEBV-S1G25-K-10-N-LE25	
	IP65, IP67	25 x 0.34 mm ²	Angled	2.5 m	510 g	575423	NEBV-S1WA25-K-2.5-N-LE25-S9	
				5 m	950 g	575424	NEBV-S1WA25-K-5-N-LE25-S9	
				10 m	1,850 g	575425	NEBV-S1WA25-K-10-N-LE25-S9	

Ordering data – Sub-D socket, 37-pin

	Cable characteristic	Material cable sheath	Electrical connection 2, number of connections/ cores	Cable length	Product weight	Part no.	Type
	Standard	PVC	10	2.5 m	364 g	543271	NEBV-S1W37-KM-2.5-LE10

Ordering data

Ordering data – Sub-D socket, 37-pin

	Cable characteristic	Material cable sheath	Electrical connection 2, number of connections/ cores	Cable length	Product weight	Part no.	Type
	Standard	PVC	10	5 m	557 g	543272	NEBV-S1W37-KM-5-LE10
				10 m	907 g	543273	NEBV-S1W37-KM-10-LE10
			27	2.5 m	663.8 g	543274	NEBV-S1W37-KM-2.5-LE27
				5 m	1,124 g	543275	NEBV-S1W37-KM-5-LE27
				10 m	2,000 g	543276	NEBV-S1W37-KM-10-LE27
			37	2.5 m	831 g	543277	NEBV-S1W37-KM-2.5-LE37
				5 m	1,393 g	543278	NEBV-S1W37-KM-5-LE37
				10 m	2,702 g	543279	NEBV-S1W37-KM-10-LE37
				2.5 m	837.7 g	539246	NEBV-S1W37-K-2.5-LE37
				5 m	1,410 g	539247	NEBV-S1W37-K-5-LE37
				10 m	2,686 g	539248	NEBV-S1W37-K-10-LE37
	Suitable for energy chains	TPE-U(PUR)	10	2.5 m	392 g	539240	NEBV-S1W37-E-2.5-LE10
				5 m	563.2 g	539241	NEBV-S1W37-E-5-LE10
				10 m	947 g	539242	NEBV-S1W37-E-10-LE10
			26	2.5 m	617 g	539243	NEBV-S1W37-E-2.5-LE26
				5 m	1,006 g	539244	NEBV-S1W37-E-5-LE26
				10 m	1,859 g	539245	NEBV-S1W37-E-10-LE26

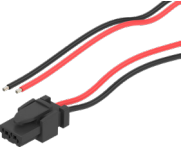
Ordering data – Sub-D socket, 44-pin

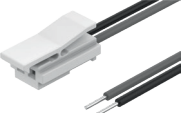
	Cable structure	Degree of protection	Electrical connection 1, cable outlet	Cable length	Product weight	Part no.	Type
	40 x 0.14 mm ²	IP65, IP67, In mounted state		2.5 m	389 g	565289	NEBV-S1G44-K-2.5-N-LE39
				5 m	737 g	565290	NEBV-S1G44-K-5-N-LE39
				10 m	1,432 g	565291	NEBV-S1G44-K-10-N-LE39
	44 x 0.14 mm ²	IP40	Straight	2.5 m	455 g	575113	NEBV-S1G44-K-2.5-N-LE44-S6
				5 m	830 g	575114	NEBV-S1G44-K-5-N-LE44-S6
				10 m	1,620 g	575115	NEBV-S1G44-K-10-N-LE44-S6
		IP65, IP67	Angled	2.5 m	460 g	575420	NEBV-S1WA44-K-2.5-N-LE44-S9
				5 m	860 g	575421	NEBV-S1WA44-K-5-N-LE44-S9
				10 m	1,660 g	575422	NEBV-S1WA44-K-10-N-LE44-S9

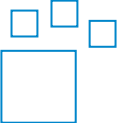
Ordering data – Socket plug pattern Q7

	Note on operation	Electrical connection 2, connector system	Cable length	Product weight	Part no.	Type
	Only operate with external power reduction	Open end	0.1 m	0.5 g	8115892	NEBV-Q7G2-PD-0.1-N-LE2
			0.5 m	2.3 g	8115099	NEBV-Q7G2-PD-0.5-N-LE2

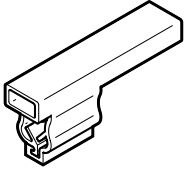
Ordering data

Ordering data – Socket plug pattern S						
	Cable characteristic	Electrical connection 2, connection type	Cable length	Product weight	Part no.	Type
	For static applications	Cable	0.5 m	8 g	566666	NEBV-HSG2-P-0.5-N-LE2
			1 m	16 g	566667	NEBV-HSG2-P-1-N-LE2
			2.5 m	35 g	566668	NEBV-HSG2-P-2.5-N-LE2
			5 m	70 g	566669	NEBV-HSG2-P-5-N-LE2
	Standard	2x single cores	0.5 m	4 g	566662	NEBV-HSG2-KN-0.5-N-LE2
			1 m	7 g	566663	NEBV-HSG2-KN-1-N-LE2
			2.5 m	17 g	566664	NEBV-HSG2-KN-2.5-N-LE2
			5 m	31 g	566665	NEBV-HSG2-KN-5-N-LE2

Ordering data – Plug pattern HP						
	Electrical connection 2, connection type	Note on operation	Cable length	Product weight	Part no.	Type
	2x single cores	Only operate with external power reduction	0.3 m	2 g	8122832	NEBV-HPG2-PN-0.3-N-LE2

Ordering data – Modular product system			
	Connection technology left, field device side	Part no.	Type
	Socket type C, narrow design Sub-D socket Sub-D HD socket Socket connection pattern ZC, self-tapping screw Socket connection pattern ZC, metric screw	8003577	NEBV-

Accessories

Inscription label holder						
	Type of mounting	Function	Size of pack	Cable diameter	Part no.	Type
	Clip	Inscription label holder	100	2.5 ... 3.5 mm	8078306	NEAU-LH-2