

The large professional sensor.

Fixed sizes for the future: the E-series M12.



Challenges are a routine matter for the circular connectors of the E-series M12: inductive or capacitive proximity switches, photoelectric barriers, flow-monitoring devices, pressure switches, limit switch connections, photoelectric barriers, AS interface bus components and field bus components – the best is just good enough. And in order to ensure a particularly long life, Hirschmann circular connectors are protected against dust and moisture and are resistant to many oils and chemical substances.

The ergonomic design of E-series makes handling easier; as a result, the connection of sensor and actuator technology in automation systems as for example in automatic installation units and machine tools can be done quickly and promptly. Our engineered design prevents the accidental unscrewing of the coupling nut. This provides an additional advantage in terms of safety in all fields of application that are subject to high vibration loads, for example in conveyor belt equipment and automatic punch presses.

Hirschmann circular connectors are used in all sensor and actuator device applications in automation technology – particularly where the risk of vibrations is especially high.

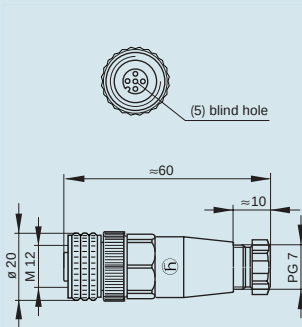
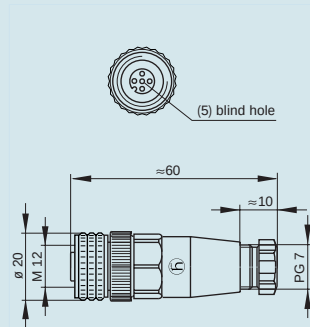
The E-series M12 with plug design as per IEC 61076-2-101 (Ed. 1) can be obtained in the design type with screw locking M12x1, and also in a shielded version if so desired.

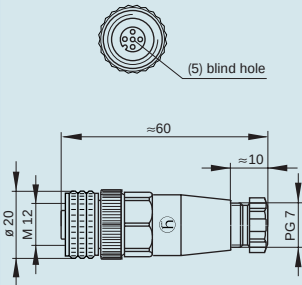
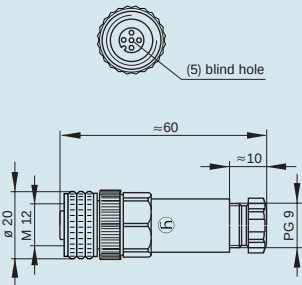
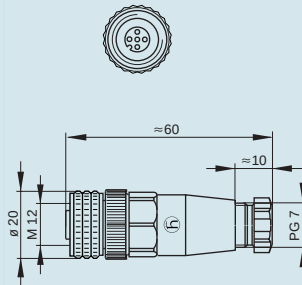




CIRCULAR CONNECTORS E-SERIES M12

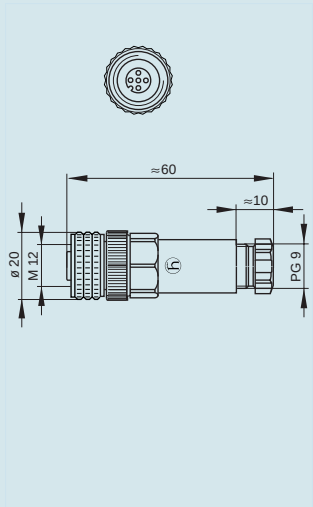
with screw locking > Straight cable socket, self-assembled

Type	ELKA 4012 PG7 schwarz/black	ELKA 4012 PG7 transparent/topas
Order No.	933 139-100	933 210-199
	 Straight cable socket, unassembled, strain relief by means of clamping cage	 Straight cable socket, unassembled, strain relief by means of clamping cage, electronic insert (LED display) may be fitted
Product description		
Type of contact	female	female
Number of contacts	4	4
Cable gland	PG 7	PG 7
Standard	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2
Housing Color	black	transparent
Drawing		
Technical data		
Rated voltage	AC/DC 250 V	AC/DC 250 V
Rated current	4 A	4 A
Type of termination	screw	screw
Suitable cables	diameter 4 mm to 6 mm, max. 0.75 mm ²	diameter 4 mm to 6 mm, max. 0.75 mm ²
Material		
Contact material	Cu Zn	Cu Zn
Contact surface material	Sn	Sn
Contact bearer material	PA	PA
Housing material	PA	PA
Coupling nut material	Zn Al/Ni	Zn Al/Ni
O-Ring	NBR	NBR
Environmental conditions		
Protection class (IEC 60529)	IP 67	IP 67
Pollution severity	3	3
Temperature range	-25 °C to +90 °C	-25 °C to +90 °C
Inflammability class		
Housing	94 V-2	94 V-2
Contact bearer	94 V-2	94 V-2
Packing unit		
Packaging unit	100 pieces	100 pieces
Scope of delivery and accessories		
Accessories to order separately	protective cap M12 VS, order no. 734 209-100	protective cap M12 VS, order no. 734 209-100; LED insert E 2 LED PNP, order no. 933 405-001

ELKA 4012 K PG7	ELKA 4012 PG9	ELKA 5012 PG7
933 725-100	933 169-100	933 170-100
		
Straight cable socket, unassembled, strain relief by means of clamping cage, plastic coupling nut	Straight cable socket, unassembled, strain relief by means of clamping cage	Straight cable socket, unassembled, strain relief by means of clamping cage
female 4 PG 7 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	female 4 PG 9 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	female 5 PG 7 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black
		
AC/DC 250 V 4 A screw diameter 4 mm to 6 mm, max. 0.75 mm ²	AC/DC 250 V 4 A screw diameter 6 mm to 8 mm, max. 0.75 mm ²	AC/DC 50 V 4 A screw diameter 4 mm to 6 mm, max. 0.75 mm ²
Cu Zn Sn PA PA PA NBR	Cu Zn Sn PA PA Zn Al/Ni NBR	Cu Zn Sn PA PA Zn Al/Ni NBR
IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C
94 V-2 94 V-2	94 V-2 94 V-2	94 V-2 94 V-2
100 pieces	100 pieces	100 pieces
protective cap M12 VS, order no. 734 209-100	protective cap M12 VS, order no. 734 209-100	protective cap M12 VS, order no. 734 209-100

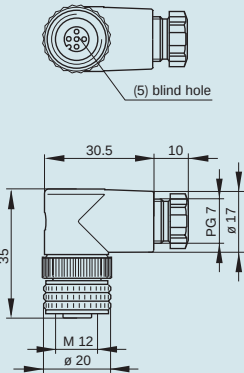
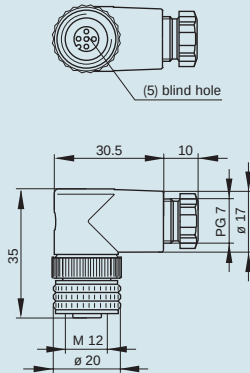
CIRCULAR CONNECTORS E-SERIES M12

with screw locking > Straight cable socket, self-assembled

Type	
Order No.	ELKA 5012 PG9 933 171-100
 Straight cable socket, unassembled, strain relief by means of clamping cage	
Product description	
Type of contact	female
Number of contacts	5
Cable gland	PG 9
Standard	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2
Housing Color	black
Drawing	
	
Technical data	
Rated voltage	AC/DC 50 V
Rated current	4 A
Type of termination	screw
Suitable cables	diameter 6 mm to 8 mm, max. 0.75 mm ²
Material	
Contact material	Cu Zn
Contact surface material	Sn
Contact bearer material	PA
Housing material	PA
Coupling nut material	Zn Al/Ni
O-Ring	NBR
Environmental conditions	
Protection class (IEC 60529)	IP 67
Pollution severity	3
Temperature range	-25 °C to +90 °C
Inflammability class	
Housing	94 V-2
Contact bearer	94 V-2
Packing unit	
Packaging unit	100 pieces
Scope of delivery and accessories	
Accessories to order separately	protective cap M12 VS, order no. 734 209-100

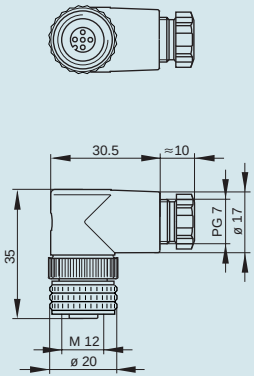
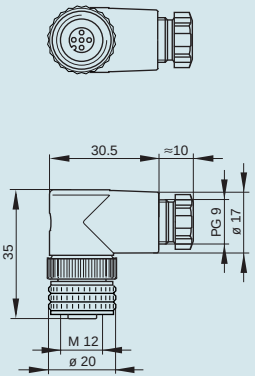
CIRCULAR CONNECTORS E-SERIES M12

with screw locking > Angled cable socket, self-assembled

Type	ELWIKA 4012 PG7 schwarz/black	ELWIKA 4012 PG7 transparent/
Order No.	933 172-100	933 173-199
	 Angled cable socket, unassembled, strain relief by means of clamping cage	 Angled cable socket, unassembled, strain relief by means of clamping cage, electronic insert (LED display) may be fitted
Product description		
Type of contact	female	female
Number of contacts	4	4
Cable gland	PG 7	PG 7
Standard	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2
Housing Color	black	transparent
Drawing		
Technical data		
Rated voltage	AC/DC 250 V	AC/DC 250 V
Rated current	4 A	4 A
Type of termination	screw	screw
Suitable cables	diameter 4 mm to 6 mm, max. 0.75 mm ²	diameter 4 mm to 6 mm, max. 0.75 mm ²
Material		
Contact material	Cu Zn	Cu Zn
Contact surface material	Sn	Sn
Contact bearer material	PA	PA
Housing material	PA	PA
Coupling nut material	Zn Al/Ni	Zn Al/Ni
O-Ring	NBR	NBR
Environmental conditions		
Protection class (IEC 60529)	IP 67	IP 67
Pollution severity	3	3
Temperature range	-25 °C to +90 °C	-25 °C to +90 °C
Inflammability class		
Housing	94 V-2	94 V-2
Contact bearer	94 V-2	94 V-2
Packing unit		
Packaging unit	100 pieces	100 pieces
Scope of delivery and accessories		
Accessories to order separately	protective cap M12 VS, order no. 734 209-100	protective cap M12 VS, order no. 734 209-100; LED insert E 2 LED PNP, order no. 933 405-001

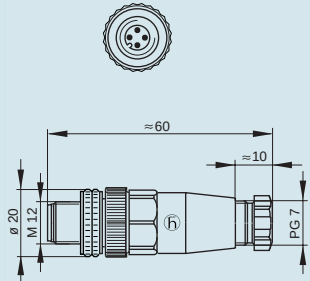
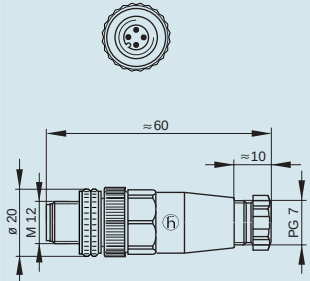
with screw locking > **Angled cable socket, self-assembled**

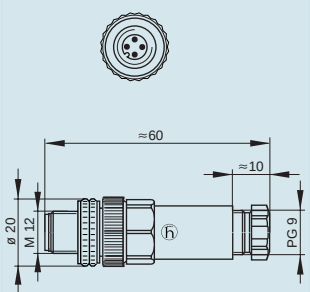
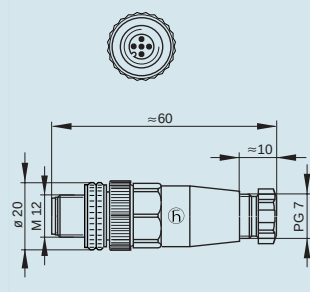
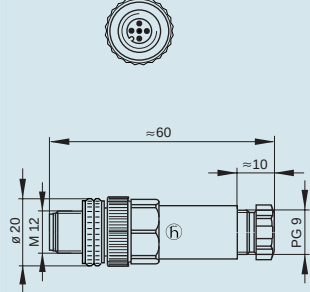
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ELWIKA 5012 PG7	ELWIKA 5012 PG9
933 175-100	933 176-100
	
Angled cable socket, unassembled, strain relief by means of clamping cage	Angled cable socket, unassembled, strain relief by means of clamping cage
female 5 PG 7 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	female 5 PG 9 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black
	
AC/DC 50 V 4 A screw diameter 4 mm to 6 mm, max. 0.75 mm ²	AC/DC 50 V 4 A screw diameter 6 mm to 8 mm, max. 0.75 mm ²
Cu Zn Sn PA PA Zn Al/Ni NBR	Cu Zn Sn PA PA Zn Al/Ni NBR
IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C
94 V-2 94 V-2	94 V-2 94 V-2
100 pieces	100 pieces
protective cap M12 VS, order no. 734 209-100	protective cap M12 VS, order no. 734 209-100

CIRCULAR CONNECTORS E-SERIES M12

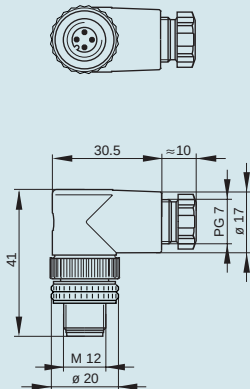
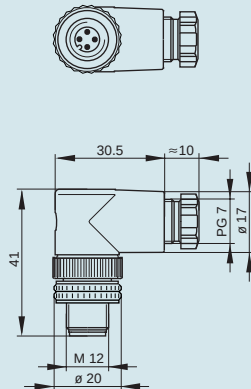
with screw locking > **Straight cable plug, self-assembled**

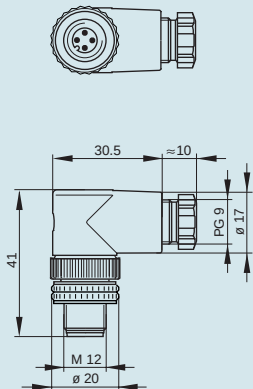
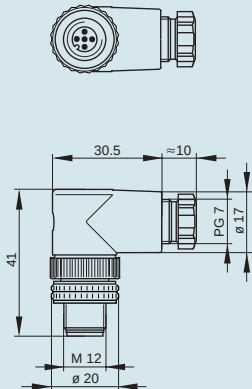
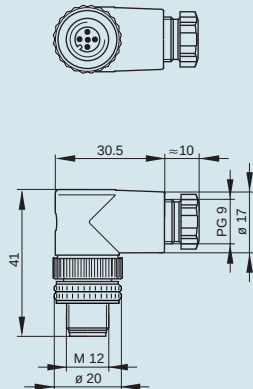
Type	ELST 4012 PG7	ELST 4012 K PG7
Order No.	933 098-100	933 727-100
	 Straight cable plug, unassembled, strain relief by means of clamping cage	 Straight cable plug, unassembled, strain relief by means of clamping cage, plastic coupling thread
Product description		
Type of contact	male	male
Number of contacts	4	4
Cable gland	PG 7	PG 7
Standard	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2
Housing Color	black	black
Drawing		
Technical data		
Pin dimensions	1 mm	1 mm
Rated voltage	AC/DC 250 V	AC/DC 250 V
Rated current	4 A	4 A
Type of termination	screw	screw
Suitable cables	diameter 4 mm to 6 mm, max. 0.75 mm ²	diameter 4 mm to 6 mm, max. 0.75 mm ²
Material		
Contact material	Cu Zn	Cu Zn
Contact surface material	Sn	Sn
Contact bearer material	PA	PA
Housing material	PA	PA
Coupling nut material	Zn Al/Ni	PA
O-Ring	NBR	NBR
Environmental conditions		
Protection class (IEC 60529)	IP 67	IP 67
Pollution severity	3	3
Temperature range	-25 °C to +90 °C	-25 °C to +90 °C
Inflammability class		
Housing	94 V-2	94 V-2
Contact bearer	94 V-2	94 V-2
Packing unit		
Packaging unit	100 pieces	100 pieces

ELST 4012 PG9	ELST 5012 PG7	ELST 5012 PG9
933 162-100	933 163-100	933 164-100
		
Straight cable plug, unassembled, strain relief by means of clamping cage	Straight cable plug, unassembled, strain relief by means of clamping cage	Straight cable plug, unassembled, strain relief by means of clamping cage
male 4 PG 9 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	male 5 PG 7 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	male 5 PG 9 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black
		
1 mm AC/DC 250 V 4 A screw diameter 6 mm to 8 mm, max. 0.75 mm ²	1 mm AC/DC 50 V 4 A screw diameter 4 mm to 6 mm, max. 0.75 mm ²	1 mm AC/DC 50 V 4 A screw diameter 6 mm to 8 mm, max. 0.75 mm ²
Cu Zn Sn PA PA Zn Al/Ni NBR	Cu Zn Sn PA PA Zn Al/Ni NBR	Cu Zn Sn PA PA Zn Al/Ni NBR
IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C
94 V-2 94 V-2	94 V-2 94 V-2	94 V-2 94 V-2
100 pieces	100 pieces	100 pieces

CIRCULAR CONNECTORS E-SERIES M12

with screw locking > Angled cable plug, self-assembled

Type	ELWIST 4012 PG7	ELWIST 4012 K PG7
Order No.	933 165-100	933 728-100
	 Angled cable plug, unassembled, strain relief by means of clamping cage	 Angled cable plug, unassembled, strain relief by means of clamping cage, plastic coupling thread
Product description		
Type of contact	male	male
Number of contacts	4	4
Cable gland	PG 7	PG 7
Standard	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2	IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2
Housing Color	black	black
Drawing		
Technical data		
Pin dimensions	1 mm	1 mm
Rated voltage	AC/DC 250 V	AC/DC 250 V
Rated current	4 A (2 A at 0.14 mm ²)	4 A
Type of termination	screw	screw
Suitable cables	diameter 4 mm to 6 mm, max. 0.75 mm ²	diameter 4 mm to 6 mm, max. 0.75 mm ²
Material		
Contact material	Cu Zn	Cu Zn
Contact surface material	Sn	Sn
Contact bearer material	PA	PA
Housing material	PA	PA
Coupling nut material	Zn Al/Ni	PA
O-Ring	NBR	NBR
Environmental conditions		
Protection class (IEC 60529)	IP 67	IP 67
Pollution severity	3	3
Temperature range	-25 °C to +90 °C	-25 °C to +90 °C
Inflammability class		
Housing	94 V-2	94 V-2
Contact bearer	94 V-2	94 V-2
Packing unit		
Packaging unit	100 pieces	100 pieces

ELWIST 4012 PG9	ELWIST 5012 PG7	ELWIST 5012 PG9
933 166-100	933 167-100	933 168-100
		
Angled cable plug, unassembled, strain relief by means of clamping cage	Angled cable plug, unassembled, strain relief by means of clamping cage	Angled cable plug, unassembled, strain relief by means of clamping cage
male 4 PG 9 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	male 5 PG 7 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black	male 5 PG 9 IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2 black
		
1 mm AC/DC 250 V 4 A screw diameter 6 mm to 8 mm, max. 0.75 mm ²	1 mm AC/DC 50 V 4 A screw diameter 4 mm to 6 mm, max. 0.75 mm ²	1 mm AC/DC 50 V 4 A screw diameter 6 mm to 8 mm, max. 0.75 mm ²
Cu Zn Sn PA PA Zn Al/Ni NBR	Cu Zn Sn PA PA Zn Al/Ni NBR	Cu Zn Sn PA PA Zn Al/Ni NBR
IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C	IP 67 3 -25 °C to +90 °C
94 V-2 94 V-2	94 V-2 94 V-2	94 V-2 94 V-2
100 pieces	100 pieces	100 pieces