

BCC connectors and cables
... for faster and simpler connectivity



more added value





With over 50 years of sensors experience, Balluff is a worldwide leading sensor specialist with our own line of connectivity products for every area of factory automation. With headquarters in Germany and 54 representatives and subsidiaries, Balluff is expertly represented on every continent in the world.

Balluff stands for comprehensive systems from a single source, continuous innovation, the most modern technology, highest quality and greatest reliability. And even more: for distinctive customer orientation, custom tailored solutions, fast worldwide service and outstanding applications assistance. In short: for reliable, expert partnership.

Whether electronic and mechanical sensors, rotary and linear transducers, identification systems or optimized connectivity solutions for high-performance automation, Balluff masters not only the entire technological variety with all the operating principles, but also offers innovative technology and the most modern electronics – tested down to the last detail in the company's own accredited testing laboratory and manufactured according to DIN ISO 9001 (EN 29001). Balluff technology can be used anywhere in the world, since it meets even regional quality standards. And Balluff technology is available internationally. So there is always a Balluff expert near you.

Balluff products increase throughput, quality and productivity day in and day out. They create the prerequisites for meeting the demands of the global market when it comes to greater performance and cost reduction. Including in the most demanding areas. No matter how stringent your requirements may be, Balluff provides solutions at the latest state of the art.

Fully exploit the potential of high quality. And profit from easy, quick setup with connectors and cables: the best possible connection for high efficiency.



more added value

- High protection rating: IP 67 guaranteed
- High shock and vibration ratings
- Easy, quick connection



Faster, simpler connection

Clearly visible markings on the grip for ease of orientation. The special BCC tool allows you to screw on the connector or set the tightening torque on the hex.

Highly visible LEDs

The LEDs are clearly visible from various directions, even under difficult lighting conditions.



Principles

4

M8 connectors	3-pin	male	8
	4-pin	male	10
	3-pin	female	9
	4-pin	female	11
Cables M8 ↔ M8	3-pin	female/male	12
	4-pin	female/male	14
Cables M8 ↔ M12	3-pin	female/male	16
	4-pin	female/male	18
M12 connectors	3-pin	male	20
	4-pin	male	26
	3-pin	female	22
	4-pin	female	28
Cables M12 ↔ M8	3-pin	female/male	32
	4-pin	female/male	36
Cables M12 ↔ M12	3-pin	female/male	38
	4-pin	female/male	40

	Materials	Use and characteristics
Metals	CuZn Brass	Standard housing material with surface protection.
	Stainless steel	Excellent corrosion resistance and strength. <u>Quality 1.4034, 1.4104</u> : Standard material. <u>Quality 1.4305, 1.4301</u> : Standard material for foods industry. <u>Quality 1.4401, 1.4404, 1.4571</u> : For foods industry with higher requirements for chemical resistance at elevated temperatures.
Plastics	PUR Polyurethane	Elastic, abrasion-resistant, impact-resistant. Good resistance to oils, greases, solvents (used for gaskets and cable jackets).
	PUR Cable material	Drag chain compatible, flame resistance per IEC 332-2, halogen-free per IEC 60754-1, cable construction per UL-AWM Style 21198.
	PVC Polyvinylchloride	Good mechanical strength and chemical resistance (cable).
	FPK (Viton)	Seal material with high thermal and chemical resistance
Other	TPE Thermoplastic elastomers	A thermoplastic mixture that combines the best properties of PVC and rubber insulation. Resistant to oils, chemicals, acids, solvents and weld splatter.
Insulation class	II □	EN 60947-5-2/IEC 60947-5-2
Enclosure rating	IP 60...67	EN 60529/IEC 60529
	IP 68 per BWN Pr. 20	Balluff Factory Standard (BWN): Continuous temperature 48 h at 60 °C, 8 temperature cycles per EN 60068-2-14/IEC 60068-2-14 between the reference temperatures according to data sheet, 1 h in water, insulation test, 24 h in water, insulation test, 8 temperature cycles per EN 60068-2-14/IEC 60068-2-14 between the reference temperatures according to data sheet, 7 days in water, insulation test.
	IP 68 per BWN Pr. 27	Balluff Factory Standard (BWN): Testing products for use in the foods industry.
	IP 69K	DIN 40050 Part 9 Protection against ingress of water at high pressure and steam cleaning.

Quality Management System in accordance with DIN EN ISO 9001:2000

Balluff Companies	
Balluff GmbH	Germany
Balluff Elektronika Kft	Hungary
Nihon Balluff Com. Ltd.	Japan
Balluff U.K. Ltd.	Great Britain
Balluff Automation s.r.l.	Italy
Balluff Inc.	USA
Gebhard Balluff Vetriebsgmbh	Austria
Balluff CZ	Czech Republic
Hy-Tech AG	Switzerland
Balluff Sensortechnik AG	Switzerland
Balluff Controles Eléctricos Ltda.	Brazil

Environmental Management System per DIN EN ISO 14001:2005

Balluff Companies	
Balluff GmbH	Germany
Balluff Elektronika Kft	Hungary

Testing Laboratory

The Balluff testing laboratory works in accordance with ISO/IEC 17025 and is accredited by the DATech for Testing of Electromagnetic Compatibility (EMC).



Balluff products meet the EU Directives

Products requiring marking are subjected to a conformity evaluation process according to the EU Directive and the product is marked with the CE Marking. Balluff products fall under the following EU Directives:

2004/108/EC	EMC Directive
2006/95/EC	Low-Voltage Directive applies to AC and AC/DC sensors
94/9/EC	ATEX Directive applies to products having the Ex marking



Approvals

... are granted by national and international institutions. Their symbols affirm that our products meet the specifications of these institutions. "US Safety System" and "Canadian Standards Association" under the auspices of Underwriters Laboratories Inc. (cUL).



CCC Marking by the Chinese CQC.



Balluff is a member of ALPHA

ALPHA, an association for testing and certification of low-voltage devices, promotes the individual responsibility of the manufacturer of such devices by means of uniform test procedures according to current standards and thereby supports the attainment of high product quality. ALPHA also grants nationally recognized product certificates when certain prerequisites are met. Through ALPHA's membership in LOVAG (Low Voltage Agreement Group), its certificates are also recognized in other European countries.



Connectors and Cables

Cable Types, Tightening Torque, Wire Colors

Cable types

PUR cable, PUR jacketed	
No. of conductors × cross-section (mm ²)	Outside diameter typ. (mm)
3×0.34	4.3...5.1
3×0.50	4.5...4.7
4×0.34	4.7...5.5

PVC cable, PVC jacketed	
No. of conductors × cross-section (mm ²)	Outside diameter typ. (mm)
3×0.34	4.9...5.0
3×0.50	4.7...5.0
4×0.34	4.8...5.0

Least bending radius

	tensioned	untensioned
PUR	10×D	5×D
PVC	15×D	8×D
PUR shielded	10×D	5×D
PVC shielded	15×D	8×D

Bending cycles and drag chain compatibility for PUR materials

> 10×D	> 2 mil.
Vertical travel permitted	at 5 m/sec ² 2 m
Horizontal travel permitted	at 5 m/sec ² 5 m

Tightening torques

Permissible tightening torque for connectors	
M8	0.4 Nm
M12	0.6 Nm
7/8"	1.5 Nm

Wire colors

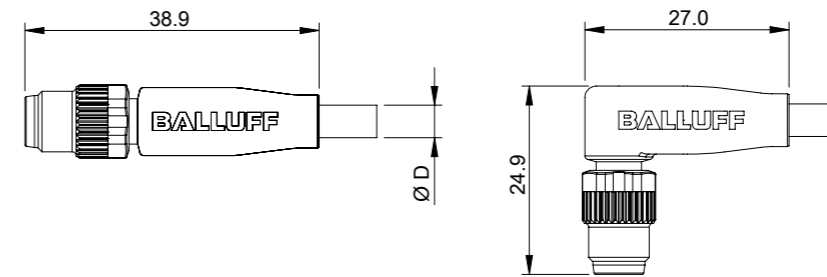
Coding per
DIN IEC 60757

BN	brown
BK	black
BU	blue
WH	white

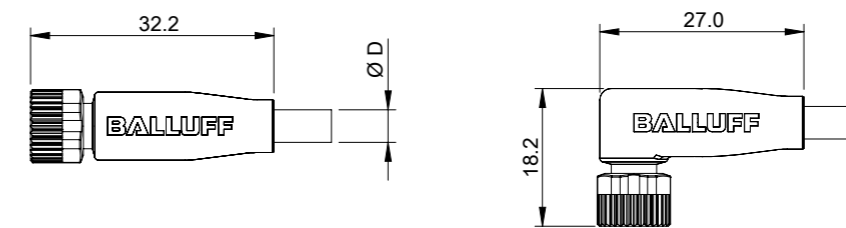
Connectors and Cables

Dimensions

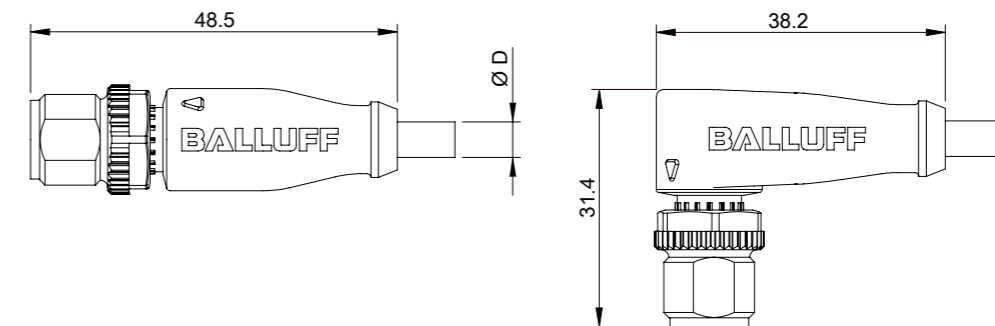
M8 connectors, male straight and right-angle



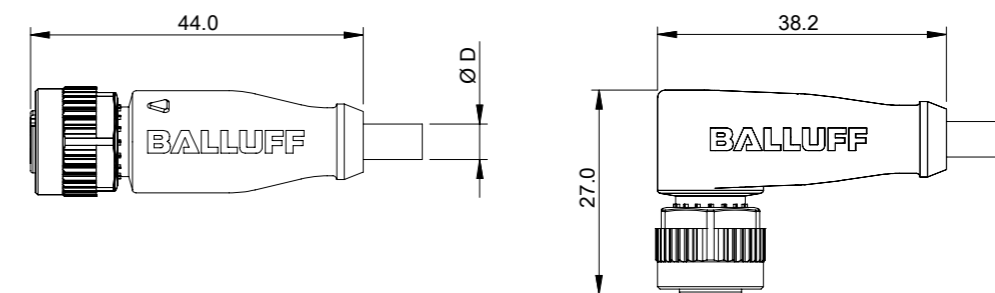
M8 connectors, female straight and right-angle



M12 connectors, male straight and right-angle



M12 connectors, female straight and right-angle



Connectors

M8-male straight and right-angle, 3-pin, no LED

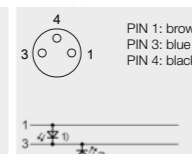
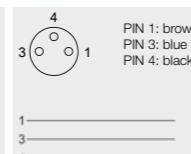
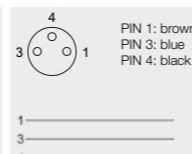
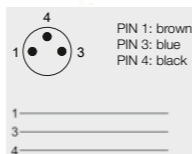
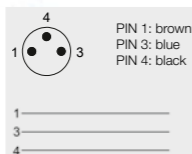
M8

Connectors

M8-female straight and right-angle, 3-pin, with and without LED



Connector diagram and wiring



Operating voltage max. AC U_B
Operating voltage max. DC U_B
Cable
No. of wires x cross-section
Enclosure rating per IEC 60529
Ambient temperature T_a
PUR
PUR shielded
PVC
PVC shielded
Version
LED

60 V AC
60 V DC
Molded-on
3x0.34mm²
IP 67
-25 °C...+80 °C
-5 °C...+80 °C
Normally open \swarrow -

60 V AC
60 V DC
Molded-on
3x0.34mm²
IP 67
-25 °C...+80 °C
-5 °C...+80 °C
Normally open \swarrow -

60 V AC
60 V DC
Molded-on
3x0.34mm²
IP 67
-25 °C...+80 °C
-25 °C...+80 °C
-5 °C...+80 °C
-5 °C...+80 °C
Normally open \swarrow -

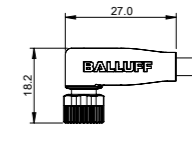
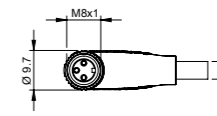
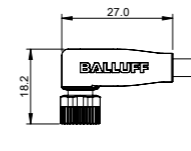
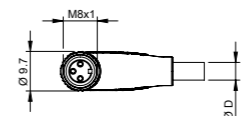
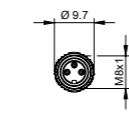
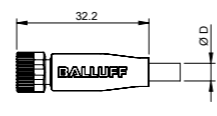
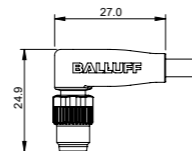
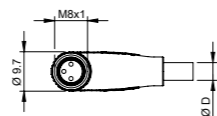
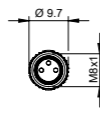
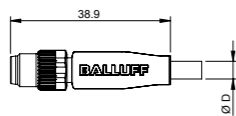
60 V AC
60 V DC
Molded-on
3x0.34mm²
IP 67
-25 °C...+80 °C
-25 °C...+80 °C
-5 °C...+80 °C
-5 °C...+80 °C
Normally open \swarrow -

30 V DC
Molded-on
3x0.34mm²
IP 67
-25 °C...+80 °C
-5 °C...+80 °C
PNP-Normally open \swarrow -
green/yellow

¹ LED green = Power
² LED yellow = Switching output

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	2 m	BCC02M2 BCC M313-0000-20-001-PX0334-020	BCC02M5 BCC M323-0000-20-001-PX0334-020	BCC02M8 BCC M313-0000-10-001-PX0334-020	BCC02ML BCC M323-0000-10-001-PX0334-020	BCC02MH BCC M323-0000-10-004-PX0334-020
PUR	black	5 m	BCC02M3 BCC M313-0000-20-001-PX0334-050	BCC02M6 BCC M323-0000-20-001-PX0334-050	BCC02M9 BCC M313-0000-10-001-PX0334-050	BCC02MM BCC M323-0000-10-001-PX0334-050	BCC02MJ BCC M323-0000-10-004-PX0334-050
PUR	black	10 m	BCC02M4 BCC M313-0000-20-001-PX0334-100	BCC02M7 BCC M323-0000-20-001-PX0334-100	BCC02MA BCC M313-0000-10-001-PX0334-100	BCC02MN BCC M323-0000-10-001-PX0334-100	BCC02MK BCC M323-0000-10-004-PX0334-100
PUR shielded	black	2 m			BCC02MC BCC M313-0000-10-036-PS0334-020	BCC02MP BCC M323-0000-10-036-PS0334-020	
PUR shielded	black	5 m			BCC02ME BCC M313-0000-10-036-PS0334-050	BCC02MR BCC M323-0000-10-036-PS0334-050	
PUR shielded	black	10 m			BCC02MF BCC M313-0000-10-036-PS0334-100	BCC02MT BCC M323-0000-10-036-PS0334-100	
PVC	gray	2 m	BCC02NL BCC M313-0000-20-001-VX8334-020	BCC02NP BCC M323-0000-20-001-VX8334-020	BCC02NU BCC M313-0000-10-001-VX8334-020	BCC02P5 BCC M323-0000-10-001-VX8334-020	BCC02P2 BCC M323-0000-10-004-VX8334-020
PVC	gray	5 m	BCC02NM BCC M313-0000-20-001-VX8334-050	BCC02NR BCC M323-0000-20-001-VX8334-050	BCC02NW BCC M313-0000-10-001-VX8334-050	BCC02P6 BCC M323-0000-10-001-VX8334-050	BCC02P3 BCC M323-0000-10-004-VX8334-050
PVC	gray	10 m	BCC02NN BCC M313-0000-20-001-VX8334-100	BCC02NT BCC M323-0000-20-001-VX8334-100	BCC02NY BCC M313-0000-10-001-VX8334-100	BCC02P7 BCC M323-0000-10-001-VX8334-100	BCC02P4 BCC M323-0000-10-004-VX8334-100
PVC shielded	gray	2 m			BCC02NZ BCC M313-0000-10-036-VS8334-020	BCC02P8 BCC M323-0000-10-036-VS8334-020	
PVC shielded	gray	5 m			BCC02P0 BCC M313-0000-10-036-VS8334-050	BCC02P9 BCC M323-0000-10-036-VS8334-050	
PVC shielded	gray	10 m			BCC02P1 BCC M313-0000-10-036-VS8334-100	BCC02PA BCC M323-0000-10-036-VS8334-100	

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



M8

Connectors

M8-male straight and right-angle, 4-pin, no LED



Connector diagram and wiring	 PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black	 PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black
Operating voltage max. AC U_B	30 V AC	30 V AC
Operating voltage max. DC U_B	30 V DC	30 V DC
Cable	Molded-on	Molded-on
No. of wires x cross-section	4x0.34mm ²	4x0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67
Ambient temperature T_a	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded	-25 °C...+80 °C -5 °C...+80 °C
Version LED	Complementary (NO/NC) /	Complementary (NO/NC) /

Connectors

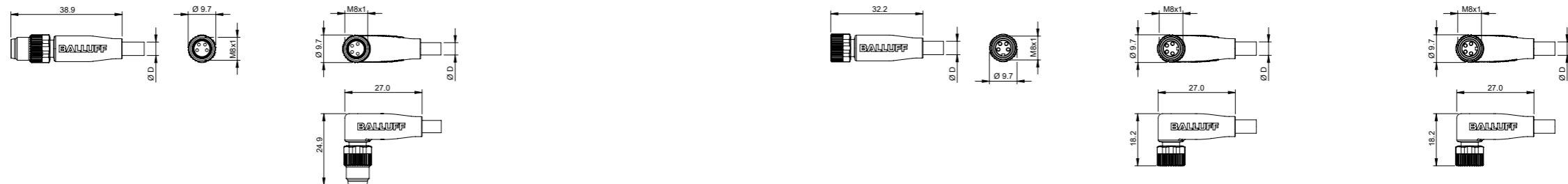
M8-female straight and right-angle, 4-pin, with and without LED



Connector diagram and wiring	 PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black	 PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black
Operating voltage max. AC U_B	30 V AC	30 V AC
Operating voltage max. DC U_B	30 V DC	30 V DC
Cable	Molded-on	Molded-on
No. of wires x cross-section	4x0.34mm ²	4x0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67
Ambient temperature T_a	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded	-25 °C...+80 °C -5 °C...+80 °C
Version LED	Complementary (NO/NC) /	PNP-complementary (NO/NC) / green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	2 m	BCC02MU BCC M314-0000-20-003-PX0434-020	BCC02MZ BCC M324-0000-20-003-PX0434-020	BCC02N2 BCC M314-0000-10-003-PX0434-020	BCC02NC BCC M324-0000-10-003-PX0434-020	BCC02N8 BCC M324-0000-10-008-PX0434-020
PUR	black	5 m	BCC02MW BCC M314-0000-20-003-PX0434-050	BCC02N0 BCC M324-0000-20-003-PX0434-050	BCC02N3 BCC M314-0000-10-003-PX0434-050	BCC02NE BCC M324-0000-10-003-PX0434-050	BCC02N9 BCC M324-0000-10-008-PX0434-050
PUR	black	10 m	BCC02MY BCC M314-0000-20-003-PX0434-100	BCC02N1 BCC M324-0000-20-003-PX0434-100	BCC02N4 BCC M314-0000-10-003-PX0434-100	BCC02NF BCC M324-0000-10-003-PX0434-100	BCC02NA BCC M324-0000-10-008-PX0434-100
PUR shielded	black	2 m			BCC02N5 BCC M314-0000-10-014-PS0434-020	BCC02NH BCC M324-0000-10-014-PS0434-020	
PUR shielded	black	5 m			BCC02N6 BCC M314-0000-10-014-PS0434-050	BCC02NJ BCC M324-0000-10-014-PS0434-050	
PUR shielded	black	10 m			BCC02N7 BCC M314-0000-10-014-PS0434-100	BCC02NK BCC M324-0000-10-014-PS0434-100	
PVC	gray	2 m	BCC02PC BCC M314-0000-20-003-VX8434-020	BCC02PH BCC M324-0000-20-003-VX8434-020	BCC02PL BCC M314-0000-10-003-VX8434-020	BCC02PZ BCC M324-0000-10-003-VX8434-020	BCC02PU BCC M324-0000-10-008-VX8434-020
PVC	gray	5 m	BCC02PE BCC M314-0000-20-003-VX8434-050	BCC02PJ BCC M324-0000-20-003-VX8434-050	BCC02PM BCC M314-0000-10-003-VX8434-050	BCC02R0 BCC M324-0000-10-003-VX8434-050	BCC02PW BCC M324-0000-10-008-VX8434-050
PVC	gray	10 m	BCC02PF BCC M314-0000-20-003-VX8434-100	BCC02PK BCC M324-0000-20-003-VX8434-100	BCC02PN BCC M314-0000-10-003-VX8434-100	BCC02R1 BCC M324-0000-10-003-VX8434-100	BCC02PY BCC M324-0000-10-008-VX8434-100
PVC shielded	gray	2 m			BCC02PP BCC M314-0000-10-014-VS8434-020	BCC02R2 BCC M324-0000-10-014-VS8434-020	
PVC shielded	gray	5 m			BCC02PR BCC M314-0000-10-014-VS8434-050	BCC02R3 BCC M324-0000-10-014-VS8434-050	
PVC shielded	gray	10 m			BCC02PT BCC M314-0000-10-014-VS8434-100	BCC02R4 BCC M324-0000-10-014-VS8434-100	

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Connection cable

M8-female straight ↔ M8-male straight or right-angle, 3-pin, no LED

M8 ↔ M8

Connection cable

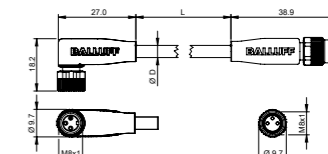
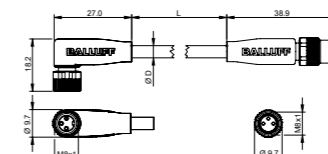
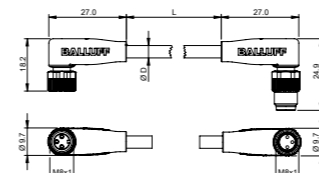
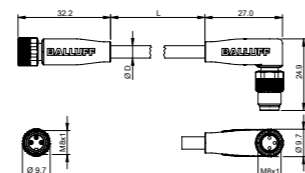
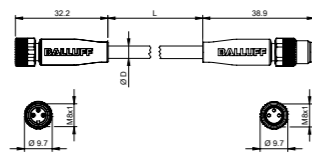
M8-female right-angle ↔ M8-male straight or right-angle, 3-pin, with and without LED



Connector diagram and wiring	Diagram I	Diagram II	Diagram I	Diagram II	Diagram I	Diagram II	Diagram I	Diagram II
Operating voltage max. AC U _B	60 V AC	60 V AC	60 V AC	60 V AC	60 V AC	60 V AC	60 V AC	60 V AC
Operating voltage max. DC U _B	60 V DC	60 V DC	60 V DC	60 V DC	60 V DC	60 V DC	60 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Ambient temperature T _a	PUR -25 °C...+80 °C	PUR shielded -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR -25 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR -25 °C...+80 °C	PUR shielded -5 °C...+80 °C
Version LED	Normally open	Normally open	Normally open	Normally open	Normally open	Normally open	Normally open	PNP-Normally open green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	0.3 m	BCC02R5 BCC M313-M313-30-300-PX0334-003	BCC02RE BCC M313-M323-30-300-PX0334-003	BCC02T6 BCC M323-M323-30-300-PX0334-003	BCC02RZ BCC M323-M313-30-300-PX0334-003	BCC02RN BCC M323-M313-30-602-PX0334-003
PUR	black	0.6 m	BCC02R6 BCC M313-M313-30-300-PX0334-006	BCC02RF BCC M313-M323-30-300-PX0334-006	BCC02T7 BCC M323-M323-30-300-PX0334-006	BCC02T0 BCC M323-M313-30-300-PX0334-006	BCC02RP BCC M323-M313-30-602-PX0334-006
PUR	black	1 m	BCC02R7 BCC M313-M313-30-300-PX0334-010	BCC02RH BCC M313-M323-30-300-PX0334-010	BCC02T8 BCC M323-M323-30-300-PX0334-010	BCC02T1 BCC M323-M313-30-300-PX0334-010	BCC02RR BCC M323-M313-30-602-PX0334-010
PUR	black	1.5 m	BCC02R8 BCC M313-M313-30-300-PX0334-015	BCC02RJ BCC M313-M323-30-300-PX0334-015	BCC02T9 BCC M323-M323-30-300-PX0334-015	BCC02T2 BCC M323-M313-30-300-PX0334-015	BCC02RT BCC M323-M313-30-602-PX0334-015
PUR	black	2 m	BCC02R9 BCC M313-M313-30-300-PX0334-020	BCC02RK BCC M313-M323-30-300-PX0334-020	BCC02TA BCC M323-M323-30-300-PX0334-020	BCC02T3 BCC M323-M313-30-300-PX0334-020	BCC02RU BCC M323-M313-30-602-PX0334-020
PUR	black	3 m	BCC02RA BCC M313-M313-30-300-PX0334-030	BCC02RL BCC M313-M323-30-300-PX0334-030	BCC02TC BCC M323-M323-30-300-PX0334-030	BCC02T4 BCC M323-M313-30-300-PX0334-030	BCC02RW BCC M323-M313-30-602-PX0334-030
PUR	black	5 m	BCC02RC BCC M313-M313-30-300-PX0334-050	BCC02RM BCC M313-M323-30-300-PX0334-050	BCC02TE BCC M323-M323-30-300-PX0334-050	BCC02T5 BCC M323-M313-30-300-PX0334-050	BCC02RY BCC M323-M313-30-602-PX0334-050
PVC	gray	0.3 m	BCC02UR BCC M313-M313-30-300-VX8334-003	BCC02W1 BCC M313-M323-30-300-VX8334-003	BCC02WT BCC M323-M323-30-300-VX8334-003	BCC02WJ BCC M323-M313-30-300-VX8334-003	BCC02W8 BCC M323-M313-30-602-VX8334-003
PVC	gray	0.6 m	BCC02UT BCC M313-M313-30-300-VX8334-006	BCC02W2 BCC M313-M323-30-300-VX8334-006	BCC02WU BCC M323-M323-30-300-VX8334-006	BCC02WK BCC M323-M313-30-300-VX8334-006	BCC02W9 BCC M323-M313-30-602-VX8334-006
PVC	gray	1 m	BCC02UU BCC M313-M313-30-300-VX8334-010	BCC02W3 BCC M313-M323-30-300-VX8334-010	BCC02WW BCC M323-M323-30-300-VX8334-010	BCC02WL BCC M323-M313-30-300-VX8334-010	BCC02WA BCC M323-M313-30-602-VX8334-010
PVC	gray	1.5 m	BCC02UW BCC M313-M313-30-300-VX8334-015	BCC02W4 BCC M313-M323-30-300-VX8334-015	BCC02WY BCC M323-M323-30-300-VX8334-015	BCC02WM BCC M323-M313-30-300-VX8334-015	BCC02WC BCC M323-M313-30-602-VX8334-015
PVC	gray	2 m	BCC02UY BCC M313-M313-30-300-VX8334-020	BCC02W5 BCC M313-M323-30-300-VX8334-020	BCC02WZ BCC M323-M323-30-300-VX8334-020	BCC02WN BCC M323-M313-30-300-VX8334-020	BCC02WE BCC M323-M313-30-602-VX8334-020
PVC	gray	3 m	BCC02UZ BCC M313-M313-30-300-VX8334-030	BCC02W6 BCC M313-M323-30-300-VX8334-030	BCC02Y0 BCC M323-M323-30-300-VX8334-030	BCC02WP BCC M323-M313-30-300-VX8334-030	BCC02WF BCC M323-M313-30-602-VX8334-030
PVC	gray	5 m	BCC02W0 BCC M313-M313-30-300-VX8334-050	BCC02W7 BCC M313-M323-30-300-VX8334-050	BCC02Y1 BCC M323-M323-30-300-VX8334-050	BCC02WR BCC M323-M313-30-300-VX8334-050	BCC02WH BCC M323-M313-30-602-VX8334-050

Other cable materials, colors and lengths on request. Connectors without LED are suitable for PNP and NPN switching functions. NPN versions on request.



Connection cable

M8-female straight ↔ M8-male straight or right-angle, 4-pin, no LED

M8 ↔ M8

Connection cable

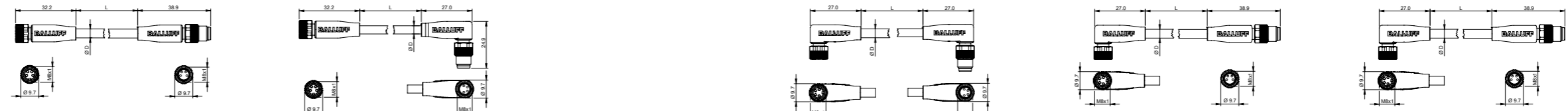
M8-female right-angle ↔ M8-male straight or right-angle, 4-pin, with and without LED



Connector diagram and wiring	Diagram 1	Diagram 2	Diagram 3	Diagram 4	Diagram 5
Operating voltage max. AC U_B	30 V AC	30 V AC	30 V AC	30 V AC	30 V AC
Operating voltage max. DC U_B	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67	IP 67	IP 67	IP 67
Ambient temperature T_a	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded	PUR -25 °C...+80 °C PUR shielded PVC -5 °C...+80 °C PVC shielded
Version LED	Complementary (NO/NC) \swarrow / \searrow	Complementary (NO/NC) \swarrow / \searrow	Complementary (NO/NC) \swarrow / \searrow	Complementary (NO/NC) \swarrow / \searrow	PNP-complementary (NO/NC) \swarrow / \searrow green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	0.3 m	BCC02TF BCC M314-M314-30-304-PX0434-003	BCC02TP BCC M314-M324-30-304-PX0434-003	BCC02UH BCC M324-M324-30-304-PX0434-003	BCC02U7 BCC M324-M314-30-304-PX0434-003	BCC02U0 BCC M324-M314-30-606-PX0434-003
PUR	black	0.6 m	BCC02TH BCC M314-M314-30-304-PX0434-006	BCC02TR BCC M314-M324-30-304-PX0434-006	BCC02UJ BCC M324-M324-30-304-PX0434-006	BCC02U8 BCC M324-M314-30-304-PX0434-006	BCC02U1 BCC M324-M314-30-606-PX0434-006
PUR	black	1 m	BCC02TJ BCC M314-M314-30-304-PX0434-010	BCC02TT BCC M314-M324-30-304-PX0434-010	BCC02UK BCC M324-M324-30-304-PX0434-010	BCC02U9 BCC M324-M314-30-304-PX0434-010	BCC02U2 BCC M324-M314-30-606-PX0434-010
PUR	black	1.5 m	BCC02TK BCC M314-M314-30-304-PX0434-015	BCC02TU BCC M314-M324-30-304-PX0434-015	BCC02UL BCC M324-M324-30-304-PX0434-015	BCC02UA BCC M324-M314-30-304-PX0434-015	BCC02U3 BCC M324-M314-30-606-PX0434-015
PUR	black	2 m	BCC02TL BCC M314-M314-30-304-PX0434-020	BCC02TW BCC M314-M324-30-304-PX0434-020	BCC02UM BCC M324-M324-30-304-PX0434-020	BCC02UC BCC M324-M314-30-304-PX0434-020	BCC02U4 BCC M324-M314-30-606-PX0434-020
PUR	black	3 m	BCC02TM BCC M314-M314-30-304-PX0434-030	BCC02TY BCC M314-M324-30-304-PX0434-030	BCC02UN BCC M324-M324-30-304-PX0434-030	BCC02UE BCC M324-M314-30-304-PX0434-030	BCC02U5 BCC M324-M314-30-606-PX0434-030
PUR	black	5 m	BCC02TN BCC M314-M314-30-304-PX0434-050	BCC02TZ BCC M314-M324-30-304-PX0434-050	BCC02UP BCC M324-M324-30-304-PX0434-050	BCC02UF BCC M324-M314-30-304-PX0434-050	BCC02U6 BCC M324-M314-30-606-PX0434-050
PVC	gray	0.3 m	BCC02Y2 BCC M314-M314-30-304-VX8434-003	BCC02Y9 BCC M314-M324-30-304-VX8434-003	BCC02Z3 BCC M324-M324-30-304-VX8434-003	BCC02YU BCC M324-M314-30-304-VX8434-003	BCC02YK BCC M324-M314-30-606-VX8434-003
PVC	gray	0.6 m	BCC02Y3 BCC M314-M314-30-304-VX8434-006	BCC02YA BCC M314-M324-30-304-VX8434-006	BCC02Z4 BCC M324-M324-30-304-VX8434-006	BCC02YW BCC M324-M314-30-304-VX8434-006	BCC02YL BCC M324-M314-30-606-VX8434-006
PVC	gray	1 m	BCC02Y4 BCC M314-M314-30-304-VX8434-010	BCC02YC BCC M314-M324-30-304-VX8434-010	BCC02Z5 BCC M324-M324-30-304-VX8434-010	BCC02YY BCC M324-M314-30-304-VX8434-010	BCC02YM BCC M324-M314-30-606-VX8434-010
PVC	gray	1.5 m	BCC02Y5 BCC M314-M314-30-304-VX8434-015	BCC02YE BCC M314-M324-30-304-VX8434-015	BCC02Z6 BCC M324-M324-30-304-VX8434-015	BCC02YZ BCC M324-M314-30-304-VX8434-015	BCC02YN BCC M324-M314-30-606-VX8434-015
PVC	gray	2 m	BCC02Y6 BCC M314-M314-30-304-VX8434-020	BCC02YF BCC M314-M324-30-304-VX8434-020	BCC02Z7 BCC M324-M324-30-304-VX8434-020	BCC02Z0 BCC M324-M314-30-304-VX8434-020	BCC02YP BCC M324-M314-30-606-VX8434-020
PVC	gray	3 m	BCC02Y7 BCC M314-M314-30-304-VX8434-030	BCC02YH BCC M314-M324-30-304-VX8434-030	BCC02Z8 BCC M324-M324-30-304-VX8434-030	BCC02Z1 BCC M324-M314-30-304-VX8434-030	BCC02YR BCC M324-M314-30-606-VX8434-030
PVC	gray	5 m	BCC02Y8 BCC M314-M314-30-304-VX8434-050	BCC02YJ BCC M314-M324-30-304-VX8434-050	BCC02Z9 BCC M324-M324-30-304-VX8434-050	BCC02Z2 BCC M324-M314-30-304-VX8434-050	BCC02YT BCC M324-M314-30-606-VX8434-050

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Connection cable

M8-female straight ↔ M12-male straight or right-angle, 3-pin, no LED

M8 ↔ M12

Connection cable

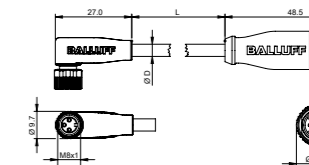
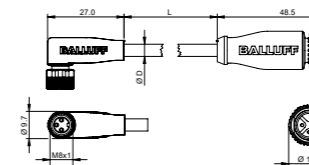
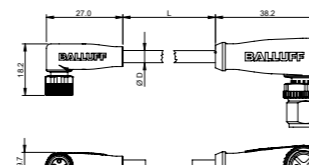
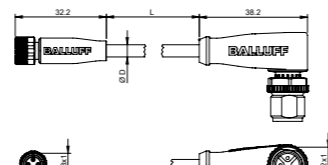
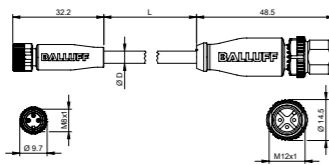
M8-female right-angle ↔ M12-male straight or right-angle, 3-pin, with and without LED



Connector diagram and wiring					
Operating voltage max. AC U _B	60 V AC	60 V AC	60 V AC	60 V AC	60 V AC
Operating voltage max. DC U _B	60 V DC	60 V DC	60 V DC	60 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67	IP 67	IP 67	IP 67
Ambient temperature T _a	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C
	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C
	PVC -5 °C...+80 °C	PVC -5 °C...+80 °C	PVC -5 °C...+80 °C	PVC -5 °C...+80 °C	PVC -5 °C...+80 °C
Version	Normally open	Normally open	Normally open	Normally open	PNP-Normally open
LED					green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	0.3 m	BCC03F4 BCC M313-M413-3E-300-PX0334-003	BCC03FC BCC M313-M423-3E-300-PX0334-003	BCC03FY BCC M323-M423-3E-300-PX0334-003	BCC03FM BCC M323-M413-3E-300-PX0334-003	BCC03H5 BCC M323-M413-3E-602-PX0334-003
PUR	black	0.6 m	BCC03F5 BCC M313-M413-3E-300-PX0334-006	BCC03FE BCC M313-M423-3E-300-PX0334-006	BCC03FZ BCC M323-M423-3E-300-PX0334-006	BCC03FN BCC M323-M413-3E-300-PX0334-006	BCC03H6 BCC M323-M413-3E-602-PX0334-006
PUR	black	1 m	BCC03F6 BCC M313-M413-3E-300-PX0334-010	BCC03FF BCC M313-M423-3E-300-PX0334-010	BCC03H0 BCC M323-M423-3E-300-PX0334-010	BCC03FP BCC M323-M413-3E-300-PX0334-010	BCC03H7 BCC M323-M413-3E-602-PX0334-010
PUR	black	1.5 m	BCC03F7 BCC M313-M413-3E-300-PX0334-015	BCC03FH BCC M313-M423-3E-300-PX0334-015	BCC03H1 BCC M323-M423-3E-300-PX0334-015	BCC03FR BCC M323-M413-3E-300-PX0334-015	BCC03H8 BCC M323-M413-3E-602-PX0334-015
PUR	black	2 m	BCC03F8 BCC M313-M413-3E-300-PX0334-020	BCC03FJ BCC M313-M423-3E-300-PX0334-020	BCC03H2 BCC M323-M423-3E-300-PX0334-020	BCC03FT BCC M323-M413-3E-300-PX0334-020	BCC03H9 BCC M323-M413-3E-602-PX0334-020
PUR	black	3 m	BCC03F9 BCC M313-M413-3E-300-PX0334-030	BCC03FK BCC M313-M423-3E-300-PX0334-030	BCC03H3 BCC M323-M423-3E-300-PX0334-030	BCC03FU BCC M323-M413-3E-300-PX0334-030	BCC03HA BCC M323-M413-3E-602-PX0334-030
PUR	black	5 m	BCC03FA BCC M313-M413-3E-300-PX0334-050	BCC03FL BCC M313-M423-3E-300-PX0334-050	BCC03H4 BCC M323-M423-3E-300-PX0334-050	BCC03FW BCC M323-M413-3E-300-PX0334-050	BCC03HC BCC M323-M413-3E-602-PX0334-050
PVC	gray	0.3 m	BCC03HE BCC M313-M413-3E-300-VX8334-003	BCC03HN BCC M313-M423-3E-300-VX8334-003	BCC03J6 BCC M323-M423-3E-300-VX8334-003	BCC03HZ BCC M323-M413-3E-300-VX8334-003	BCC03JF BCC M323-M413-3E-602-VX8334-003
PVC	gray	0.6 m	BCC03HF BCC M313-M413-3E-300-VX8334-006	BCC03HP BCC M313-M423-3E-300-VX8334-006	BCC03J7 BCC M323-M423-3E-300-VX8334-006	BCC03J0 BCC M323-M413-3E-300-VX8334-006	BCC03JH BCC M323-M413-3E-602-VX8334-006
PVC	gray	1 m	BCC03HH BCC M313-M413-3E-300-VX8334-010	BCC03HR BCC M313-M423-3E-300-VX8334-010	BCC03J8 BCC M323-M423-3E-300-VX8334-010	BCC03J1 BCC M323-M413-3E-300-VX8334-010	BCC03JJ BCC M323-M413-3E-602-VX8334-010
PVC	gray	1.5 m	BCC03HJ BCC M313-M413-3E-300-VX8334-015	BCC03HT BCC M313-M423-3E-300-VX8334-015	BCC03J9 BCC M323-M423-3E-300-VX8334-015	BCC03J2 BCC M323-M413-3E-300-VX8334-015	BCC03JK BCC M323-M413-3E-602-VX8334-015
PVC	gray	2 m	BCC03HK BCC M313-M413-3E-300-VX8334-020	BCC03HU BCC M313-M423-3E-300-VX8334-020	BCC03JA BCC M323-M423-3E-300-VX8334-020	BCC03J3 BCC M323-M413-3E-300-VX8334-020	BCC03JL BCC M323-M413-3E-602-VX8334-020
PVC	gray	3 m	BCC03HL BCC M313-M413-3E-300-VX8334-030	BCC03HW BCC M313-M423-3E-300-VX8334-030	BCC03JC BCC M323-M423-3E-300-VX8334-030	BCC03J4 BCC M323-M413-3E-300-VX8334-030	BCC03JM BCC M323-M413-3E-602-VX8334-030
PVC	gray	5 m	BCC03HM BCC M313-M413-3E-300-VX8334-050	BCC03HY BCC M313-M423-3E-300-VX8334-050	BCC03JE BCC M323-M423-3E-300-VX8334-050	BCC03J5 BCC M323-M413-3E-300-VX8334-050	BCC03JN BCC M323-M413-3E-602-VX8334-050

Other cable materials, colors and lengths on request. Connectors without LED are suitable for PNP and NPN switching functions. NPN versions on request.



Connection cable

M8-female straight ↔ M12-male straight or right-angle, 4-pin, no LED

M8 ↔ M12

Connection cable

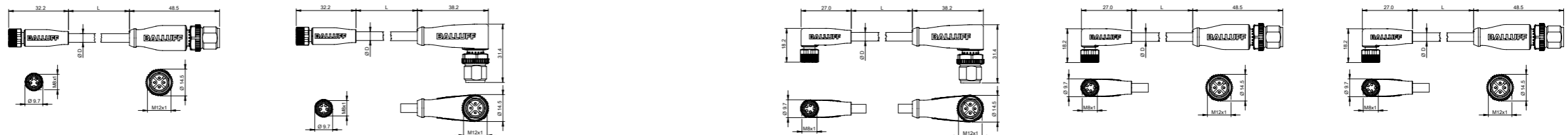
M8-female right-angle ↔ M12-male straight or right-angle, 4-pin, with and without LED



Connector diagram and wiring	Diagram 1	Diagram 2	Diagram 3	Diagram 4	Diagram 5
Operating voltage max. AC U _B	30 V AC	30 V AC	30 V AC	30 V AC	30 V AC
Operating voltage max. DC U _B	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67	IP 67	IP 67	IP 67
Ambient temperature T _a	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR shielded PVC -5 °C...+80 °C	PUR shielded PVC -5 °C...+80 °C	PUR shielded PVC -5 °C...+80 °C
Version LED	Complementary (NO/NC) ✓ / ✗	Complementary (NO/NC) ✓ / ✗	Complementary (NO/NC) ✓ / ✗	Complementary (NO/NC) ✓ / ✗	PNP-complementary (NO/NC) ✓ / ✗ green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	0.3 m	BCC03JP BCC M314-M414-3E-304-PX0434-003	BCC03K0 BCC M314-M424-3E-304-PX0434-003	BCC03KH BCC M324-M424-3E-304-PX0434-003	BCC03K7 BCC M324-M414-3E-304-PX0434-003	BCC03KR BCC M324-M414-3E-606-PX0434-003
PUR	black	0.6 m	BCC03JR BCC M314-M414-3E-304-PX0434-006	BCC03K1 BCC M314-M424-3E-304-PX0434-006	BCC03KJ BCC M324-M424-3E-304-PX0434-006	BCC03K8 BCC M324-M414-3E-304-PX0434-006	BCC03KT BCC M324-M414-3E-606-PX0434-006
PUR	black	1 m	BCC03JT BCC M314-M414-3E-304-PX0434-010	BCC03K2 BCC M314-M424-3E-304-PX0434-010	BCC03KK BCC M324-M424-3E-304-PX0434-010	BCC03K9 BCC M324-M414-3E-304-PX0434-010	BCC03KU BCC M324-M414-3E-606-PX0434-010
PUR	black	1.5 m	BCC03JU BCC M314-M414-3E-304-PX0434-015	BCC03K3 BCC M314-M424-3E-304-PX0434-015	BCC03KL BCC M324-M424-3E-304-PX0434-015	BCC03KA BCC M324-M414-3E-304-PX0434-015	BCC03KW BCC M324-M414-3E-606-PX0434-015
PUR	black	2 m	BCC03JW BCC M314-M414-3E-304-PX0434-020	BCC03K4 BCC M314-M424-3E-304-PX0434-020	BCC03KM BCC M324-M424-3E-304-PX0434-020	BCC03KC BCC M324-M414-3E-304-PX0434-020	BCC03KY BCC M324-M414-3E-606-PX0434-020
PUR	black	3 m	BCC03JY BCC M314-M414-3E-304-PX0434-030	BCC03K5 BCC M314-M424-3E-304-PX0434-030	BCC03KN BCC M324-M424-3E-304-PX0434-030	BCC03KE BCC M324-M414-3E-304-PX0434-030	BCC03KZ BCC M324-M414-3E-606-PX0434-030
PUR	black	5 m	BCC03JZ BCC M314-M414-3E-304-PX0434-050	BCC03K6 BCC M314-M424-3E-304-PX0434-050	BCC03KP BCC M324-M424-3E-304-PX0434-050	BCC03KF BCC M324-M414-3E-304-PX0434-050	BCC03L0 BCC M324-M414-3E-606-PX0434-050
PVC	gray	0.3 m	BCC03L1 BCC M314-M414-3E-304-VX8434-003	BCC03L8 BCC M314-M424-3E-304-VX8434-003	BCC03LT BCC M324-M424-3E-304-VX8434-003	BCC03LJ BCC M324-M414-3E-304-VX8434-003	BCC03M2 BCC M324-M414-3E-606-VX8434-003
PVC	gray	0.6 m	BCC03L2 BCC M314-M414-3E-304-VX8434-006	BCC03L9 BCC M314-M424-3E-304-VX8434-006	BCC03LU BCC M324-M424-3E-304-VX8434-006	BCC03LK BCC M324-M414-3E-304-VX8434-006	BCC03M3 BCC M324-M414-3E-606-VX8434-006
PVC	gray	1 m	BCC03L3 BCC M314-M414-3E-304-VX8434-010	BCC03LA BCC M314-M424-3E-304-VX8434-010	BCC03LW BCC M324-M424-3E-304-VX8434-010	BCC03LL BCC M324-M414-3E-304-VX8434-010	BCC03M4 BCC M324-M414-3E-606-VX8434-010
PVC	gray	1.5 m	BCC03L4 BCC M314-M414-3E-304-VX8434-015	BCC03LC BCC M314-M424-3E-304-VX8434-015	BCC03LY BCC M324-M424-3E-304-VX8434-015	BCC03LM BCC M324-M414-3E-304-VX8434-015	BCC03M5 BCC M324-M414-3E-606-VX8434-015
PVC	gray	2 m	BCC03L5 BCC M314-M414-3E-304-VX8434-020	BCC03LE BCC M314-M424-3E-304-VX8434-020	BCC03LZ BCC M324-M424-3E-304-VX8434-020	BCC03LN BCC M324-M414-3E-304-VX8434-020	BCC03M6 BCC M324-M414-3E-606-VX8434-020
PVC	gray	3 m	BCC03L6 BCC M314-M414-3E-304-VX8434-030	BCC03LF BCC M314-M424-3E-304-VX8434-030	BCC03M0 BCC M324-M424-3E-304-VX8434-030	BCC03LP BCC M324-M414-3E-304-VX8434-030	BCC03M7 BCC M324-M414-3E-606-VX8434-030
PVC	gray	5 m	BCC03L7 BCC M314-M414-3E-304-VX8434-050	BCC03LH BCC M314-M424-3E-304-VX8434-050	BCC03M1 BCC M324-M424-3E-304-VX8434-050	BCC03LR BCC M324-M414-3E-304-VX8434-050	BCC03M8 BCC M324-M414-3E-606-VX8434-050

Other cable materials, colors and lengths on request. Connectors without LED are suitable for PNP and NPN switching functions. NPN versions on request.



Please visit www.balluff.com for more details

Connectors

M12-male straight, 3-pin, no LED

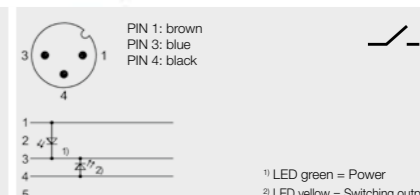
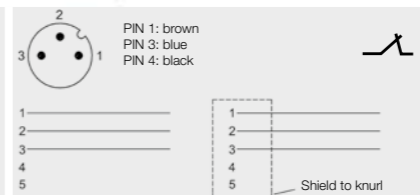
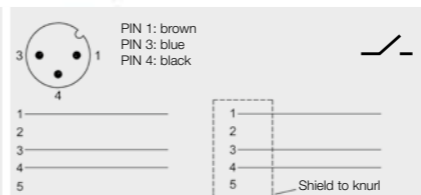
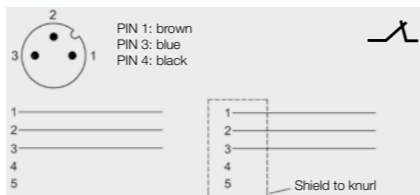
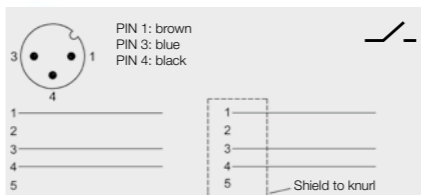
M12

Connectors

M12-male right-angle, 3-pin, with and without LED



Connector diagram and wiring



Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	Normally open

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	Normally closed

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	Normally open

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	Normally open

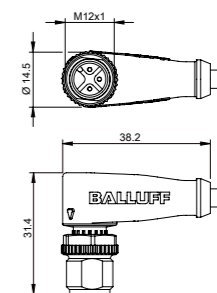
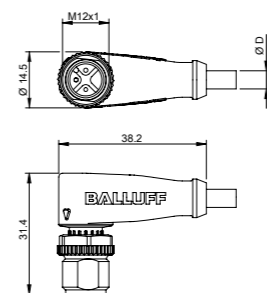
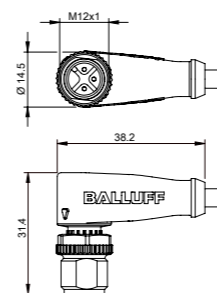
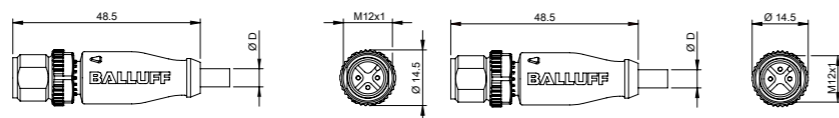
Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	Normally closed

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	PNP-Normally open

Operating voltage max. AC U_B	30 V DC
Operating voltage max. DC U_B	30 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version LED	PNP-Normally open

Cable material	Color	Length	Ordering code	Part number	Ordering code	Part number	Ordering code	Part number
PUR	black	2 m	BCC02ZA	BCC M413-0000-2A-001-PX0334-020	BCC02ZF	BCC M413-0000-2A-002-PX0334-020	BCC02ZY	BCC M423-0000-2A-001-PX0334-020
PUR	black	5 m	BCC02ZC	BCC M413-0000-2A-001-PX0334-050	BCC02ZH	BCC M413-0000-2A-002-PX0334-050	BCC02ZZ	BCC M423-0000-2A-001-PX0334-050
PUR	black	10 m	BCC02ZE	BCC M413-0000-2A-001-PX0334-100	BCC02ZJ	BCC M413-0000-2A-002-PX0334-100	BCC0300	BCC M423-0000-2A-001-PX0334-100
PUR shielded	black	2 m	BCC02ZK	BCC M413-0000-2A-036-PS0334-020	BCC02ZN	BCC M413-0000-2A-037-PS0334-020	BCC0304	BCC M423-0000-2A-036-PS0334-020
PUR shielded	black	5 m	BCC02ZL	BCC M413-0000-2A-036-PS0334-050	BCC02ZP	BCC M413-0000-2A-037-PS0334-050	BCC0305	BCC M423-0000-2A-036-PS0334-050
PUR shielded	black	10 m	BCC02ZM	BCC M413-0000-2A-036-PS0334-100	BCC02ZR	BCC M413-0000-2A-037-PS0334-100	BCC0306	BCC M423-0000-2A-036-PS0334-100
PVC	gray	2 m	BCC0334	BCC M413-0000-2A-001-VX8334-020	BCC0337	BCC M413-0000-2A-002-VX8334-020	BCC033N	BCC M423-0000-2A-001-VX8334-020
PVC	gray	5 m	BCC0335	BCC M413-0000-2A-001-VX8334-050	BCC0338	BCC M413-0000-2A-002-VX8334-050	BCC033P	BCC M423-0000-2A-001-VX8334-050
PVC	gray	10 m	BCC0336	BCC M413-0000-2A-001-VX8334-100	BCC0339	BCC M413-0000-2A-002-VX8334-100	BCC033R	BCC M423-0000-2A-001-VX8334-100
PVC shielded	gray	2 m	BCC033A	BCC M413-0000-2A-036-VS8334-020	BCC033F	BCC M413-0000-2A-037-VS8334-020	BCC033Y	BCC M423-0000-2A-036-VS8334-020
PVC shielded	gray	5 m	BCC033C	BCC M413-0000-2A-036-VS8334-050	BCC033H	BCC M413-0000-2A-037-VS8334-050	BCC033Z	BCC M423-0000-2A-036-VS8334-050
PVC shielded	gray	10 m	BCC033E	BCC M413-0000-2A-036-VS8334-100	BCC033J	BCC M413-0000-2A-037-VS8334-100	BCC0340	BCC M423-0000-2A-036-VS8334-100
							BCC0301	BCC M423-0000-2A-002-PX0334-020
							BCC0302	BCC M423-0000-2A-002-PX0334-050
							BCC0303	BCC M423-0000-2A-002-PX0334-100
							BCC0307	BCC M423-0000-2A-037-PS0334-020
							BCC0308	BCC M423-0000-2A-037-PS0334-050
							BCC0309	BCC M423-0000-2A-037-PS0334-100
							BCC033T	BCC M423-0000-2A-002-VX8334-020
							BCC033U	BCC M423-0000-2A-002-VX8334-050
							BCC033V	BCC M423-0000-2A-002-VX8334-100
							BCC0341	BCC M423-0000-2A-037-VS8334-020
							BCC0342	BCC M423-0000-2A-037-VS8334-050
							BCC0343	BCC M423-0000-2A-037-VS8334-100

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Connectors

M12-female straight, 3-pin, no LED

M12

Connectors

M12-female straight, 3-pin, with LED



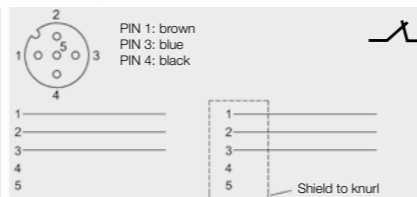
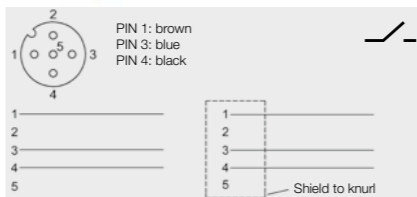
Connector diagram and wiring	 PIN 1: brown PIN 3: blue PIN 4: black	 PIN 1: brown PIN 3: blue PIN 4: black	 PIN 1: brown PIN 3: blue PIN 4: black	 PIN 1: brown PIN 3: blue PIN 4: black
Operating voltage max. AC U_B	250 V AC	250 V AC	250 V AC	30 V DC
Operating voltage max. DC U_B	250 V DC	250 V DC	250 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²
Enclosure rating per IEC 60529	IP 68	IP 68	IP 68	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	-25 °C...+80 °C
	PUR shielded -25 °C...+80 °C	PUR shielded -25 °C...+80 °C	PUR shielded -25 °C...+80 °C	-25 °C...+80 °C
	PVC -5 °C...+80 °C	PVC -5 °C...+80 °C	PVC -5 °C...+80 °C	-5 °C...+80 °C
	PVC shielded -5 °C...+80 °C	PVC shielded -5 °C...+80 °C	PVC shielded -5 °C...+80 °C	-5 °C...+80 °C
Version	Normally open	Normally closed	Normally closed	PNP-Normally open
LED				green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number
PUR	black	2 m	BCC030K	BCC030N	BCC030A	BCC030F
			BCC M415-0000-1A-001-PX0334-020	BCC M415-0000-1A-002-PX0334-020	BCC M415-0000-1A-004-PX0334-020	BCC M415-0000-1A-005-PX0334-020
PUR	black	5 m	BCC030L	BCC030P	BCC030C	BCC030H
			BCC M415-0000-1A-001-PX0334-050	BCC M415-0000-1A-002-PX0334-050	BCC M415-0000-1A-004-PX0334-050	BCC M415-0000-1A-005-PX0334-050
PUR	black	10 m	BCC030M	BCC030R	BCC030E	BCC030J
			BCC M415-0000-1A-001-PX0334-100	BCC M415-0000-1A-002-PX0334-100	BCC M415-0000-1A-004-PX0334-100	BCC M415-0000-1A-005-PX0334-100
PUR shielded	black	2 m	BCC030T	BCC030Y		
			BCC M415-0000-1A-036-PS0334-020	BCC M415-0000-1A-037-PS0334-020		
PUR shielded	black	5 m	BCC030U	BCC030Z		
			BCC M415-0000-1A-036-PS0334-050	BCC M415-0000-1A-037-PS0334-050		
PUR shielded	black	10 m	BCC030W	BCC0310		
			BCC M415-0000-1A-036-PS0334-100	BCC M415-0000-1A-037-PS0334-100		
PVC	gray	2 m	BCC034A	BCC034F	BCC0344	BCC0347
			BCC M415-0000-1A-001-VX8334-020	BCC M415-0000-1A-002-VX8334-020	BCC M415-0000-1A-004-VX8334-020	BCC M415-0000-1A-005-VX8334-020
PVC	gray	5 m	BCC034C	BCC034H	BCC0345	BCC0348
			BCC M415-0000-1A-001-VX8334-050	BCC M415-0000-1A-002-VX8334-050	BCC M415-0000-1A-004-VX8334-050	BCC M415-0000-1A-005-VX8334-050
PVC	gray	10 m	BCC034E	BCC034J	BCC0346	BCC0349
			BCC M415-0000-1A-001-VX8334-100	BCC M415-0000-1A-002-VX8334-100	BCC M415-0000-1A-004-VX8334-100	BCC M415-0000-1A-005-VX8334-100
PVC shielded	gray	2 m	BCC034K	BCC034N		
			BCC M415-0000-1A-036-VS8334-020	BCC M415-0000-1A-037-VS8334-020		
PVC shielded	gray	5 m	BCC034L	BCC034P		
			BCC M415-0000-1A-036-VS8334-050	BCC M415-0000-1A-037-VS8334-050		
PVC shielded	gray	10 m	BCC034M	BCC034R		
			BCC M415-0000-1A-036-VS8334-100	BCC M415-0000-1A-037-VS8334-100		

Other cable materials, colors and lengths on request.
 Connectors without LED are suitable for PNP and NPN switching functions.
 NPN versions on request.



Connectors M12-female right-angle, 3-pin, no LED

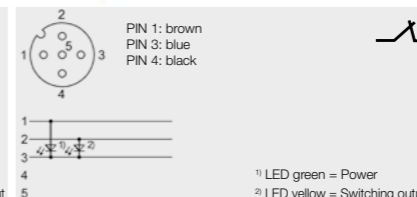
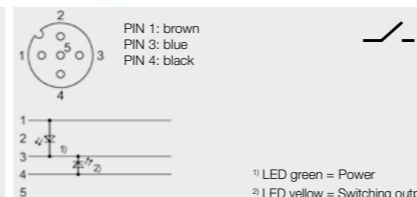


Connector diagram and wiring	
Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version	Normally open
LED	

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version	Normally closed
LED	

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version	PNP-Normally open
LED	green/yellow

Operating voltage max. AC U_B	250 V AC
Operating voltage max. DC U_B	250 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version	PNP-Normally closed
LED	green/yellow

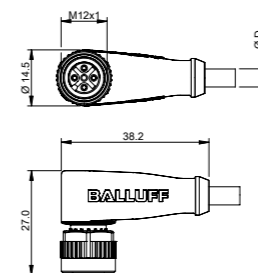
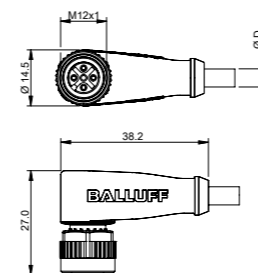
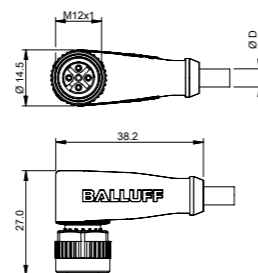
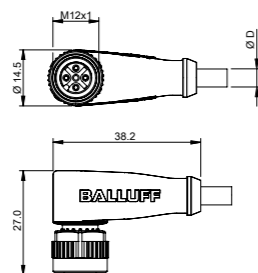


Operating voltage max. AC U_B	30 V DC
Operating voltage max. DC U_B	30 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version	PNP-Normally open
LED	green/yellow

Operating voltage max. AC U_B	30 V DC
Operating voltage max. DC U_B	30 V DC
Cable	Molded-on
No. of wires x cross-section	3x0.34mm ²
Enclosure rating per IEC 60529	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C
	PUR shielded -25 °C...+80 °C
	PVC -5 °C...+80 °C
	PVC shielded -5 °C...+80 °C
Version	PNP Normally closed
LED	green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number
PUR	black	2 m	BCC0317 BCC M425-0000-1A-001-PX0334-020	BCC031A BCC M425-0000-1A-002-PX0334-020	BCC0311 BCC M425-0000-1A-004-PX0334-020	BCC0314 BCC M425-0000-1A-005-PX0334-020
PUR	black	5 m	BCC0318 BCC M425-0000-1A-001-PX0334-050	BCC031C BCC M425-0000-1A-002-PX0334-050	BCC0312 BCC M425-0000-1A-004-PX0334-050	BCC0315 BCC M425-0000-1A-005-PX0334-050
PUR	black	10 m	BCC0319 BCC M425-0000-1A-001-PX0334-100	BCC031E BCC M425-0000-1A-002-PX0334-100	BCC0313 BCC M425-0000-1A-004-PX0334-100	BCC0316 BCC M425-0000-1A-005-PX0334-100
PUR shielded	black	2 m	BCC031F BCC M425-0000-1A-036-PS0334-020	BCC031K BCC M425-0000-1A-037-PS0334-020		
PUR shielded	black	5 m	BCC031H BCC M425-0000-1A-036-PS0334-050	BCC031L BCC M425-0000-1A-037-PS0334-050		
PUR shielded	black	10 m	BCC031J BCC M425-0000-1A-036-PS0334-100	BCC031M BCC M425-0000-1A-037-PS0334-100		
PVC	gray	2 m	BCC0351 BCC M425-0000-1A-001-VX8334-020	BCC0354 BCC M425-0000-1A-002-VX8334-020	BCC034T BCC M425-0000-1A-004-VX8334-020	BCC034Y BCC M425-0000-1A-005-VX8334-020
PVC	gray	5 m	BCC0352 BCC M425-0000-1A-001-VX8334-050	BCC0355 BCC M425-0000-1A-002-VX8334-050	BCC034U BCC M425-0000-1A-004-VX8334-050	BCC034Z BCC M425-0000-1A-005-VX8334-050
PVC	gray	10 m	BCC0353 BCC M425-0000-1A-001-VX8334-100	BCC0356 BCC M425-0000-1A-002-VX8334-100	BCC034W BCC M425-0000-1A-004-VX8334-100	BCC0350 BCC M425-0000-1A-005-VX8334-100
PVC shielded	gray	2 m	BCC0357 BCC M425-0000-1A-036-VS8334-020	BCC035A BCC M425-0000-1A-037-VS8334-020		
PVC shielded	gray	5 m	BCC0358 BCC M425-0000-1A-036-VS8334-050	BCC035C BCC M425-0000-1A-037-VS8334-050		
PVC shielded	gray	10 m	BCC0359 BCC M425-0000-1A-036-VS8334-100	BCC035E BCC M425-0000-1A-037-VS8334-100		

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Connectors

M12-male straight or right-angle,
4-pin, no LED

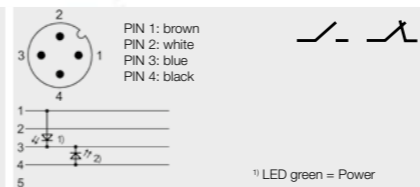
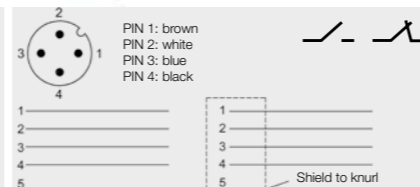
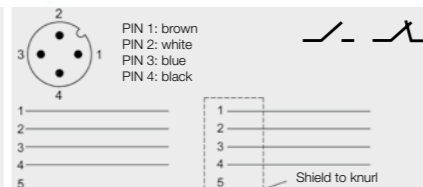
M12

Connectors

M12-male right-angle,
4-pin, with LED



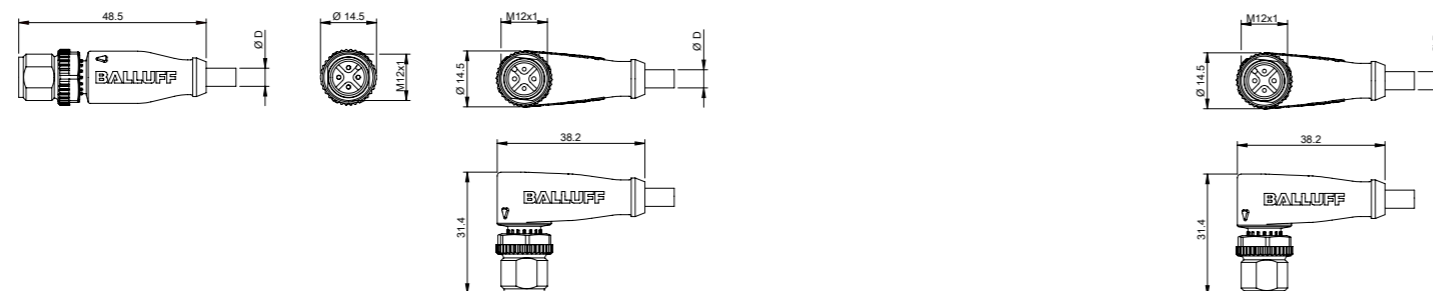
Connector diagram and wiring



Operating voltage max. AC U_B	250 V AC	250 V AC	30 V DC
Operating voltage max. DC U_B	250 V DC	250 V DC	
Cable	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²
Enclosure rating per IEC 60529	IP 68	IP 68	IP 68
Ambient temperature T_a	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	-25 °C...+80 °C
	PUR shielded -25 °C...+80 °C	PVC -25 °C...+80 °C	-5 °C...+80 °C
	PVC -5 °C...+80 °C	PVC shielded -5 °C...+80 °C	
Version	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	PNP-complementary (NO/NC) ✓- / -✓
LED			green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number
PUR	black	2 m	BCC031N	BCC0321	BCC031Y
			BCC M414-0000-2A-003-PX0434-020	BCC M424-0000-2A-003-PX0434-020	BCC M424-0000-2A-008-PX0434-020
PUR	black	5 m	BCC031P	BCC0322	BCC031Z
			BCC M414-0000-2A-003-PX0434-050	BCC M424-0000-2A-003-PX0434-050	BCC M424-0000-2A-008-PX0434-050
PUR	black	10 m	BCC031R	BCC0323	BCC0320
			BCC M414-0000-2A-003-PX0434-100	BCC M424-0000-2A-003-PX0434-100	BCC M424-0000-2A-008-PX0434-100
PUR shielded	black	2 m	BCC031T	BCC0324	
			BCC M414-0000-2A-014-PS0434-020	BCC M424-0000-2A-014-PS0434-020	
PUR shielded	black	5 m	BCC031U	BCC0325	
			BCC M414-0000-2A-014-PS0434-050	BCC M424-0000-2A-014-PS0434-050	
PUR shielded	black	10 m	BCC031W	BCC0326	
			BCC M414-0000-2A-014-PS0434-100	BCC M424-0000-2A-014-PS0434-100	
PVC	gray	2 m	BCC035F	BCC035T	BCC035N
			BCC M414-0000-2A-003-VX8434-020	BCC M424-0000-2A-003-VX8434-020	BCC M424-0000-2A-008-VX8434-020
PVC	gray	5 m	BCC035H	BCC035U	BCC035P
			BCC M414-0000-2A-003-VX8434-050	BCC M424-0000-2A-003-VX8434-050	BCC M424-0000-2A-008-VX8434-050
PVC	gray	10 m	BCC035J	BCC035W	BCC035R
			BCC M414-0000-2A-003-VX8434-100	BCC M424-0000-2A-003-VX8434-100	BCC M424-0000-2A-008-VX8434-100
PVC shielded	gray	2 m	BCC035K	BCC035Y	
			BCC M414-0000-2A-014-VS8434-020	BCC M424-0000-2A-014-VS8434-020	
PVC shielded	gray	5 m	BCC035L	BCC035Z	
			BCC M414-0000-2A-014-VS8434-050	BCC M424-0000-2A-014-VS8434-050	
PVC shielded	gray	10 m	BCC035M	BCC0360	
			BCC M414-0000-2A-014-VS8434-100	BCC M424-0000-2A-014-VS8434-100	

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



M12

Connectors

M12-female straight, 4-pin, with and without LED

Connectors

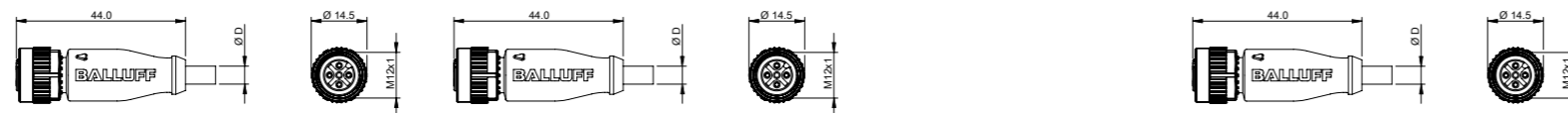
M12-female straight, 4-pin, with LED



Connector diagram and wiring			
Operating voltage max. AC U_B	250 V AC	30 V DC	30 V DC
Operating voltage max. DC U_B	250 V DC		
Cable	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²
Enclosure rating per IEC 60529	IP 68	IP 68	IP 68
Ambient temperature T_a	-25 °C...+80 °C	-25 °C...+80 °C	-25 °C...+80 °C
	PUR		
	PUR shielded		
	PVC		
	PVC shielded		
Version	Complementary (NO/NC)	PNP-complementary (NO/NC)	PNP-complementary (NO/NC)
LED		green/yellow	green/yellow/white

Cable material	Color	Length	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number
PUR	black	2 m	BCC032F BCC M415-0000-1A-003-PX0434-020	BCC0327 BCC M415-0000-1A-008-PX0434-020	BCC032A BCC M415-0000-1A-010-PX0434-020
PUR	black	5 m	BCC032H BCC M415-0000-1A-003-PX0434-050	BCC0328 BCC M415-0000-1A-008-PX0434-050	BCC032C BCC M415-0000-1A-010-PX0434-050
PUR	black	10 m	BCC032J BCC M415-0000-1A-003-PX0434-100	BCC0329 BCC M415-0000-1A-008-PX0434-100	BCC032E BCC M415-0000-1A-010-PX0434-100
PUR shielded	black	2 m	BCC032K BCC M415-0000-1A-014-PS0434-020		
PUR shielded	black	5 m	BCC032L BCC M415-0000-1A-014-PS0434-050		
PUR shielded	black	10 m	BCC032M BCC M415-0000-1A-014-PS0434-100		
PVC	gray	2 m	BCC0367 BCC M415-0000-1A-003-VX8434-020	BCC0361 BCC M415-0000-1A-008-VX8434-020	BCC0364 BCC M415-0000-1A-010-VX8434-020
PVC	gray	5 m	BCC0368 BCC M415-0000-1A-003-VX8434-050	BCC0362 BCC M415-0000-1A-008-VX8434-050	BCC0365 BCC M415-0000-1A-010-VX8434-050
PVC	gray	10 m	BCC0369 BCC M415-0000-1A-003-VX8434-100	BCC0363 BCC M415-0000-1A-008-VX8434-100	BCC0366 BCC M415-0000-1A-010-VX8434-100
PVC shielded	gray	2 m	BCC036A BCC M415-0000-1A-014-VS8434-020		
PVC shielded	gray	5 m	BCC036C BCC M415-0000-1A-014-VS8434-050		
PVC shielded	gray	10 m	BCC036E BCC M415-0000-1A-014-VS8434-100		

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



M12



Connectors

M12-female right-angle, 4-pin, with and without LED

M12

Connectors

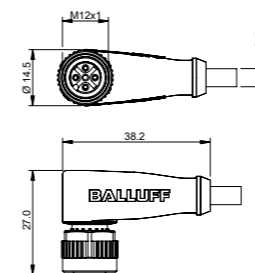
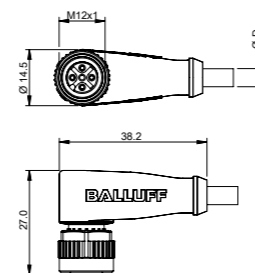
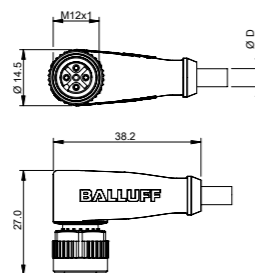
M12-female right-angle, 4-pin, with LED



Connector diagram and wiring	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>
Operating voltage max. AC U_B	250 V AC		
Operating voltage max. DC U_B	250 V DC	30 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²
Enclosure rating per IEC 60529	IP 68	IP 68	IP 68
Ambient temperature T_a	-25 °C...+80 °C	-25 °C...+80 °C	-25 °C...+80 °C
	PUR		
	PUR shielded		
	PVC		
	PVC shielded		
Version	Complementary (NO/NC)	PNP-complementary (NO/NC)	PNP-complementary (NO/NC)
LED		¹ LED green = Power ² LED yellow = Switching output	¹ LED green = Power ² LED yellow = Switching output ³ LED white = Power

Cable material	Color	Length	Ordering code	Ordering code	Ordering code
			Part number		Part number
PUR	black	2 m	BCC032Y BCC M425-0000-1A-003-PX0434-020	BCC032N BCC M425-0000-1A-008-PX0434-020	BCC032T BCC M425-0000-1A-010-PX0434-020
PUR	black	5 m	BCC032Z BCC M425-0000-1A-003-PX0434-050	BCC032P BCC M425-0000-1A-008-PX0434-050	BCC032U BCC M425-0000-1A-010-PX0434-050
PUR	black	10 m	BCC0330 BCC M425-0000-1A-003-PX0434-100	BCC032R BCC M425-0000-1A-008-PX0434-100	BCC032W BCC M425-0000-1A-010-PX0434-100
PUR shielded	black	2 m	BCC0331 BCC M425-0000-1A-014-PS0434-020		
PUR shielded	black	5 m	BCC0332 BCC M425-0000-1A-014-PS0434-050		
PUR shielded	black	10 m	BCC0333 BCC M425-0000-1A-014-PS0434-100		
PVC	gray	2 m	BCC036N BCC M425-0000-1A-003-VX8434-020	BCC036F BCC M425-0000-1A-008-VX8434-020	BCC036K BCC M425-0000-1A-010-VX8434-020
PVC	gray	5 m	BCC036P BCC M425-0000-1A-003-VX8434-050	BCC036H BCC M425-0000-1A-008-VX8434-050	BCC036L BCC M425-0000-1A-010-VX8434-050
PVC	gray	10 m	BCC036R BCC M425-0000-1A-003-VX8434-100	BCC036J BCC M425-0000-1A-008-VX8434-100	BCC036M BCC M425-0000-1A-010-VX8434-100
PVC shielded	gray	2 m	BCC036T BCC M425-0000-1A-014-VS8434-020		
PVC shielded	gray	5 m	BCC036U BCC M425-0000-1A-014-VS8434-050		
PVC shielded	gray	10 m	BCC036W BCC M425-0000-1A-014-VS8434-100		

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Please visit www.balluff.com for more details

www.balluff.com

Connection cable

M12-female straight ↔ M8-male straight,
3-pin, or right-angle, no LED

M12 ↔ M8

Connection cable

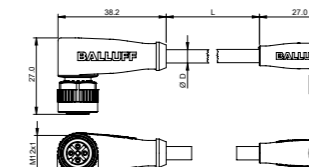
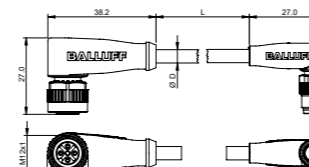
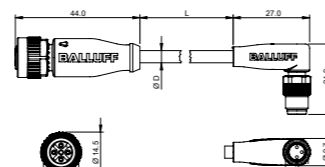
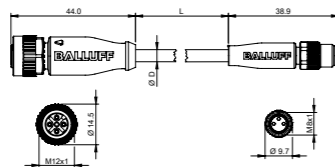
M12-female right-angle ↔ M8-male right-angle,
3-pin, with and without LED



Connector diagram and wiring	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
Operating voltage max. AC U _B	60 V AC	60 V AC	60 V AC	60 V AC
Operating voltage max. DC U _B	60 V DC	60 V DC	60 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67	IP 67	IP 67
Ambient temperature T _a	PUR -25 °C...+80 °C	PUR shielded -25 °C...+80 °C	PVC -5 °C...+80 °C	PVC shielded -5 °C...+80 °C
Version	Normally open	Normally open	Normally open	PNP-Normally open
LED				green/yellow

Cable material	Color	Length	Ordering code	Part number
PUR	black	0.3 m	BCC03M9	BCC M415-M313-3F-300-PX0334-003
PUR	black	0.6 m	BCC03MA	BCC M415-M313-3F-300-PX0334-006
PUR	black	1 m	BCC03MC	BCC M415-M313-3F-300-PX0334-010
PUR	black	1.5 m	BCC03ME	BCC M415-M313-3F-300-PX0334-015
PUR	black	2 m	BCC03MF	BCC M415-M313-3F-300-PX0334-020
PUR	black	3 m	BCC03MH	BCC M415-M313-3F-300-PX0334-030
PUR	black	5 m	BCC03MJ	BCC M415-M313-3F-300-PX0334-050
PVC	gray	0.3 m	BCC03NW	BCC M415-M313-3F-300-VX8334-003
PVC	gray	0.6 m	BCC03NY	BCC M415-M313-3F-300-VX8334-006
PVC	gray	1 m	BCC03NZ	BCC M415-M313-3F-300-VX8334-010
PVC	gray	1.5 m	BCC03P0	BCC M415-M313-3F-300-VX8334-015
PVC	gray	2 m	BCC03P1	BCC M415-M313-3F-300-VX8334-020
PVC	gray	3 m	BCC03P2	BCC M415-M313-3F-300-VX8334-030
PVC	gray	5 m	BCC03P3	BCC M415-M313-3F-300-VX8334-050
			BCC03MK	BCC M415-M323-3F-300-PX0334-003
			BCC03ML	BCC M415-M323-3F-300-PX0334-006
			BCC03MM	BCC M415-M323-3F-300-PX0334-010
			BCC03MN	BCC M415-M323-3F-300-PX0334-015
			BCC03MP	BCC M415-M323-3F-300-PX0334-020
			BCC03MR	BCC M415-M323-3F-300-PX0334-030
			BCC03MT	BCC M415-M323-3F-300-PX0334-050
			BCC03P4	BCC M415-M323-3F-300-VX8334-003
			BCC03P5	BCC M415-M323-3F-300-VX8334-006
			BCC03P6	BCC M415-M323-3F-300-VX8334-010
			BCC03P7	BCC M415-M323-3F-300-VX8334-015
			BCC03P8	BCC M415-M323-3F-300-VX8334-020
			BCC03P9	BCC M415-M323-3F-300-VX8334-030
			BCC03PA	BCC M415-M323-3F-300-VX8334-050
			BCC03N3	BCC M425-M323-3F-300-PX0334-003
			BCC03N4	BCC M425-M323-3F-300-PX0334-006
			BCC03N5	BCC M425-M323-3F-300-PX0334-010
			BCC03N6	BCC M425-M323-3F-300-PX0334-015
			BCC03N7	BCC M425-M323-3F-300-PX0334-020
			BCC03N8	BCC M425-M323-3F-300-PX0334-030
			BCC03N9	BCC M425-M323-3F-300-PX0334-050
			BCC03PM	BCC M425-M323-3F-300-VX8334-003
			BCC03PN	BCC M425-M323-3F-300-VX8334-006
			BCC03PP	BCC M425-M323-3F-300-VX8334-010
			BCC03PR	BCC M425-M323-3F-300-VX8334-015
			BCC03PT	BCC M425-M323-3F-300-VX8334-020
			BCC03PU	BCC M425-M323-3F-300-VX8334-030
			BCC03PW	BCC M425-M323-3F-300-VX8334-050
			BCC03NL	BCC M425-M323-3F-602-PX0334-003
			BCC03NM	BCC M425-M323-3F-602-PX0334-006
			BCC03NN	BCC M425-M323-3F-602-PX0334-010
			BCC03NP	BCC M425-M323-3F-602-PX0334-015
			BCC03NR	BCC M425-M323-3F-602-PX0334-020
			BCC03NT	BCC M425-M323-3F-602-PX0334-030
			BCC03NU	BCC M425-M323-3F-602-PX0334-050
			BCC03R5	BCC M425-M323-3F-602-VX8334-003
			BCC03R6	BCC M425-M323-3F-602-VX8334-006
			BCC03R7	BCC M425-M323-3F-602-VX8334-010
			BCC03R8	BCC M425-M323-3F-602-VX8334-015
			BCC03R9	BCC M425-M323-3F-602-VX8334-020
			BCC03RA	BCC M425-M323-3F-602-VX8334-030
			BCC03RC	BCC M425-M323-3F-602-VX8334-050

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Connection cable

M12-female right-angle ↔ M8-male straight, 3-pin, with and without LED

M12 ↔ M8

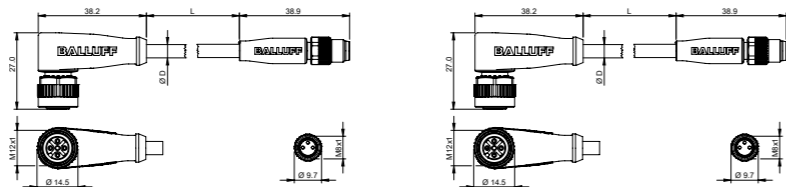
Connection cable



Connector diagram and wiring		
Operating voltage max. AC U_B	60 V AC	30 V DC
Operating voltage max. DC U_B	60 V DC	30 V DC
Cable	Molded-on	Molded-on
No. of wires × cross-section	3×0.34mm ²	3×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67
Ambient temperature T_a	-25 °C...+80 °C	-25 °C...+80 °C
	PUR shielded	-5 °C...+80 °C
	PVC shielded	-5 °C...+80 °C
Version LED	Normally open	PNP-Normally open

Cable material	Color	Length	Ordering code	Part number
PUR	black	0.3 m	BCC03MU	BCC03NA
PUR	black	0.6 m	BCC03MW	BCC03NC
PUR	black	1 m	BCC03MY	BCC03NE
PUR	black	1.5 m	BCC03MZ	BCC03NF
PUR	black	2 m	BCC03N0	BCC03NH
PUR	black	3 m	BCC03N1	BCC03NJ
PUR	black	5 m	BCC03N2	BCC03NK
PVC	gray	0.3 m	BCC03PC	BCC03PY
PVC	gray	0.6 m	BCC03PE	BCC03PZ
PVC	gray	1 m	BCC03PF	BCC03R0
PVC	gray	1.5 m	BCC03PH	BCC03R1
PVC	gray	2 m	BCC03PJ	BCC03R2
PVC	gray	3 m	BCC03PK	BCC03R3
PVC	gray	5 m	BCC03PL	BCC03R4

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Please visit www.balluff.com for more details



M12 ↔ M8



Connection cable

M12-female straight ↔ M8-male straight or right-angle, 4-pin, no LED

M12 ↔ M8

Connection cable

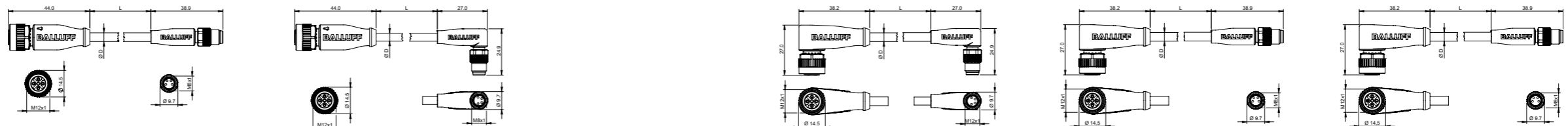
M12-female right-angle ↔ M8-male straight or right-angle, 4-pin, with and without LED



Connector diagram and wiring	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Operating voltage max. AC U _B	30 V AC	30 V AC	30 V AC	30 V AC	30 V AC	30 V AC	30 V DC
Operating voltage max. DC U _B	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²
Enclosure rating per IEC 60529	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Ambient temperature T _a	PUR -25 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR -25 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR -25 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR -25 °C...+80 °C
Version LED	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	PNP-complementary (NO/NC) ✓- / -✓ green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	0.3 m	BCC03RE BCC M415-M314-3F-304-PX0434-003	BCC03RN BCC M415-M324-3F-304-PX0434-003	BCC03T6 BCC M425-M324-3F-304-PX0434-003	BCC03RZ BCC M425-M314-3F-304-PX0434-003	BCC03TF BCC M425-M314-3F-606-PX0434-003
PUR	black	0.6 m	BCC03RF BCC M415-M314-3F-304-PX0434-006	BCC03RP BCC M415-M324-3F-304-PX0434-006	BCC03T7 BCC M425-M324-3F-304-PX0434-006	BCC03T0 BCC M425-M314-3F-304-PX0434-006	BCC03TH BCC M425-M314-3F-606-PX0434-006
PUR	black	1 m	BCC03RH BCC M415-M314-3F-304-PX0434-010	BCC03RR BCC M415-M324-3F-304-PX0434-010	BCC03T8 BCC M425-M324-3F-304-PX0434-010	BCC03T1 BCC M425-M314-3F-304-PX0434-010	BCC03TJ BCC M425-M314-3F-606-PX0434-010
PUR	black	1.5 m	BCC03RJ BCC M415-M314-3F-304-PX0434-015	BCC03RT BCC M415-M324-3F-304-PX0434-015	BCC03T9 BCC M425-M324-3F-304-PX0434-015	BCC03T2 BCC M425-M314-3F-304-PX0434-015	BCC03TK BCC M425-M314-3F-606-PX0434-015
PUR	black	2 m	BCC03RK BCC M415-M314-3F-304-PX0434-020	BCC03RU BCC M415-M324-3F-304-PX0434-020	BCC03TA BCC M425-M324-3F-304-PX0434-020	BCC03T3 BCC M425-M314-3F-304-PX0434-020	BCC03TL BCC M425-M314-3F-606-PX0434-020
PUR	black	3 m	BCC03RL BCC M415-M314-3F-304-PX0434-030	BCC03RW BCC M415-M324-3F-304-PX0434-030	BCC03TC BCC M425-M324-3F-304-PX0434-030	BCC03T4 BCC M425-M314-3F-304-PX0434-030	BCC03TM BCC M425-M314-3F-606-PX0434-030
PUR	black	5 m	BCC03RM BCC M415-M314-3F-304-PX0434-050	BCC03RY BCC M415-M324-3F-304-PX0434-050	BCC03TE BCC M425-M324-3F-304-PX0434-050	BCC03T5 BCC M425-M314-3F-304-PX0434-050	BCC03TN BCC M425-M314-3F-606-PX0434-050
PVC	gray	0.3 m	BCC03TP BCC M415-M314-3F-304-VX8434-003	BCC03U0 BCC M415-M324-3F-304-VX8434-003	BCC03UH BCC M425-M324-3F-304-VX8434-003	BCC03U7 BCC M425-M314-3F-304-VX8434-003	BCC03UR BCC M425-M314-3F-606-VX8434-003
PVC	gray	0.6 m	BCC03TR BCC M415-M314-3F-304-VX8434-006	BCC03U1 BCC M415-M324-3F-304-VX8434-006	BCC03UJ BCC M425-M324-3F-304-VX8434-006	BCC03U8 BCC M425-M314-3F-304-VX8434-006	BCC03UT BCC M425-M314-3F-606-VX8434-006
PVC	gray	1 m	BCC03TT BCC M415-M314-3F-304-VX8434-010	BCC03U2 BCC M415-M324-3F-304-VX8434-010	BCC03UK BCC M425-M324-3F-304-VX8434-010	BCC03U9 BCC M425-M314-3F-304-VX8434-010	BCC03UU BCC M425-M314-3F-606-VX8434-010
PVC	gray	1.5 m	BCC03TU BCC M415-M314-3F-304-VX8434-015	BCC03U3 BCC M415-M324-3F-304-VX8434-015	BCC03UL BCC M425-M324-3F-304-VX8434-015	BCC03UA BCC M425-M314-3F-304-VX8434-015	BCC03UW BCC M425-M314-3F-606-VX8434-015
PVC	gray	2 m	BCC03TW BCC M415-M314-3F-304-VX8434-020	BCC03U4 BCC M415-M324-3F-304-VX8434-020	BCC03UM BCC M425-M324-3F-304-VX8434-020	BCC03UC BCC M425-M314-3F-304-VX8434-020	BCC03UY BCC M425-M314-3F-606-VX8434-020
PVC	gray	3 m	BCC03TY BCC M415-M314-3F-304-VX8434-030	BCC03U5 BCC M415-M324-3F-304-VX8434-030	BCC03UN BCC M425-M324-3F-304-VX8434-030	BCC03UE BCC M425-M314-3F-304-VX8434-030	BCC03UZ BCC M425-M314-3F-606-VX8434-030
PVC	gray	5 m	BCC03TZ BCC M415-M314-3F-304-VX8434-050	BCC03U6 BCC M415-M324-3F-304-VX8434-050	BCC03UP BCC M425-M324-3F-304-VX8434-050	BCC03UF BCC M425-M314-3F-304-VX8434-050	BCC03W0 BCC M425-M314-3F-606-VX8434-050

Other cable materials, colors and lengths on request. Connectors without LED are suitable for PNP and NPN switching functions. NPN versions on request.



Connection cable

M12-female straight ↔ M12-male straight or right-angle, 3-pin, no LED

M12 ↔ M12

Connection cable

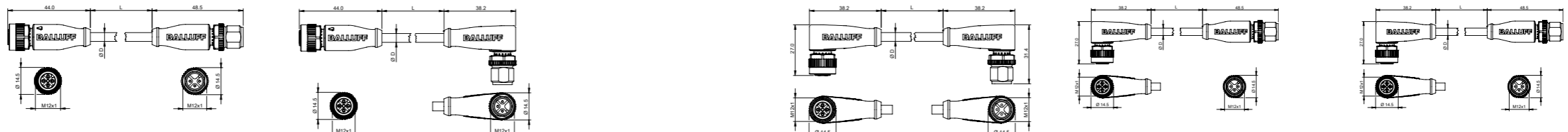
M12-female right-angle ↔ M12-male straight or right-angle, 3-pin, with and without LED



Connector diagram and wiring					
Operating voltage max. AC U _B	250 V AC	250 V AC	250 V AC	250 V AC	250 V AC
Operating voltage max. DC U _B	250 V DC	250 V DC	250 V DC	250 V DC	30 V DC
Cable	Molded-on	Molded-on	Molded-on	Molded-on	Molded-on
No. of wires × cross-section	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²	3×0.34mm ²
Enclosure rating per IEC 60529	IP 68	IP 68	IP 68	IP 68	IP 68
Ambient temperature T _a	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C	PUR -25 °C...+80 °C
	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C	PUR shielded -5 °C...+80 °C
Version	Normally open	Normally open	Normally open	Normally open	PNP-Normally open
LED					green/yellow

Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
			Part number	Part number	Part number	Part number	Part number
PUR	black	0.3 m	BCC036Y BCC M415-M413-3A-300-PX0334-003	BCC0375 BCC M415-M423-3A-300-PX0334-003	BCC037N BCC M425-M423-3A-300-PX0334-003	BCC037E BCC M425-M413-3A-300-PX0334-003	BCC037Z BCC M425-M413-3A-602-PX0334-003
PUR	black	0.6 m	BCC036Z BCC M415-M413-3A-300-PX0334-006	BCC0376 BCC M415-M423-3A-300-PX0334-006	BCC037P BCC M425-M423-3A-300-PX0334-006	BCC037F BCC M425-M413-3A-300-PX0334-006	BCC0380 BCC M425-M413-3A-602-PX0334-006
PUR	black	1 m	BCC0370 BCC M415-M413-3A-300-PX0334-010	BCC0377 BCC M415-M423-3A-300-PX0334-010	BCC037R BCC M425-M423-3A-300-PX0334-010	BCC037H BCC M425-M413-3A-300-PX0334-010	BCC0381 BCC M425-M413-3A-602-PX0334-010
PUR	black	1.5 m	BCC0371 BCC M415-M413-3A-300-PX0334-015	BCC0378 BCC M415-M423-3A-300-PX0334-015	BCC037T BCC M425-M423-3A-300-PX0334-015	BCC037J BCC M425-M413-3A-300-PX0334-015	BCC0382 BCC M425-M413-3A-602-PX0334-015
PUR	black	2 m	BCC0372 BCC M415-M413-3A-300-PX0334-020	BCC0379 BCC M415-M423-3A-300-PX0334-020	BCC037U BCC M425-M423-3A-300-PX0334-020	BCC037K BCC M425-M413-3A-300-PX0334-020	BCC0383 BCC M425-M413-3A-602-PX0334-020
PUR	black	3 m	BCC0373 BCC M415-M413-3A-300-PX0334-030	BCC037A BCC M415-M423-3A-300-PX0334-030	BCC037W BCC M425-M423-3A-300-PX0334-030	BCC037L BCC M425-M413-3A-300-PX0334-030	BCC0384 BCC M425-M413-3A-602-PX0334-030
PUR	black	5 m	BCC0374 BCC M415-M413-3A-300-PX0334-050	BCC037C BCC M415-M423-3A-300-PX0334-050	BCC037Y BCC M425-M423-3A-300-PX0334-050	BCC037M BCC M425-M413-3A-300-PX0334-050	BCC0385 BCC M425-M413-3A-602-PX0334-050
PVC	gray	0.3 m	BCC0386 BCC M415-M413-3A-300-VX8334-003	BCC038F BCC M415-M423-3A-300-VX8334-003	BCC0390 BCC M425-M423-3A-300-VX8334-003	BCC038P BCC M425-M413-3A-300-VX8334-003	BCC0397 BCC M425-M413-3A-602-VX8334-003
PVC	gray	0.6 m	BCC0387 BCC M415-M413-3A-300-VX8334-006	BCC038H BCC M415-M423-3A-300-VX8334-006	BCC0391 BCC M425-M423-3A-300-VX8334-006	BCC038R BCC M425-M413-3A-300-VX8334-006	BCC0398 BCC M425-M413-3A-602-VX8334-006
PVC	gray	1 m	BCC0388 BCC M415-M413-3A-300-VX8334-010	BCC038J BCC M415-M423-3A-300-VX8334-010	BCC0392 BCC M425-M423-3A-300-VX8334-010	BCC038T BCC M425-M413-3A-300-VX8334-010	BCC0399 BCC M425-M413-3A-602-VX8334-010
PVC	gray	1.5 m	BCC0389 BCC M415-M413-3A-300-VX8334-015	BCC038K BCC M415-M423-3A-300-VX8334-015	BCC0393 BCC M425-M423-3A-300-VX8334-015	BCC038U BCC M425-M413-3A-300-VX8334-015	BCC039A BCC M425-M413-3A-602-VX8334-015
PVC	gray	2 m	BCC038A BCC M415-M413-3A-300-VX8334-020	BCC038L BCC M415-M423-3A-300-VX8334-020	BCC0394 BCC M425-M423-3A-300-VX8334-020	BCC038W BCC M425-M413-3A-300-VX8334-020	BCC039C BCC M425-M413-3A-602-VX8334-020
PVC	gray	3 m	BCC038C BCC M415-M413-3A-300-VX8334-030	BCC038M BCC M415-M423-3A-300-VX8334-030	BCC0395 BCC M425-M423-3A-300-VX8334-030	BCC038Y BCC M425-M413-3A-300-VX8334-030	BCC039E BCC M425-M413-3A-602-VX8334-030
PVC	gray	5 m	BCC038E BCC M415-M413-3A-300-VX8334-050	BCC038N BCC M415-M423-3A-300-VX8334-050	BCC0396 BCC M425-M423-3A-300-VX8334-050	BCC038Z BCC M425-M413-3A-300-VX8334-050	BCC039F BCC M425-M413-3A-602-VX8334-050

Other cable materials, colors and lengths on request. Connectors without LED are suitable for PNP and NPN switching functions. NPN versions on request.



Please visit www.balluff.com for more details

Connection cable

M12-female straight ↔ M12-male straight, 4-pin, with and without LED

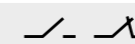
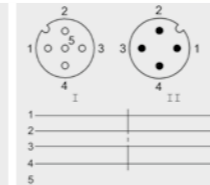
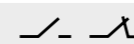
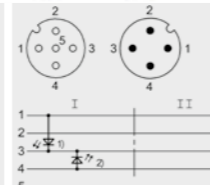
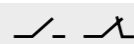
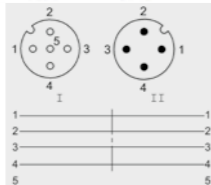
M12 ↔ M12

Connection cable

M12-female straight ↔ M12-male right-angle, 4-pin, no LED



Connector diagram and wiring



Operating voltage max. AC U_B
Operating voltage max. DC U_B
Cable
No. of wires × cross-section
Enclosure rating per IEC 60529
Ambient temperature T_a
Version
LED

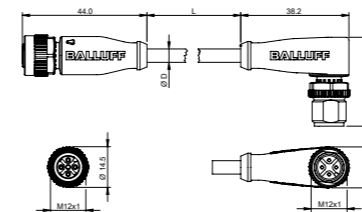
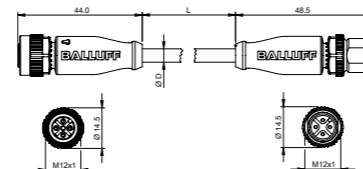
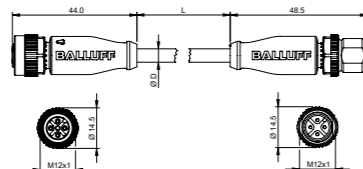
250 V AC
250 V DC
Molded-on
4×0.34mm²
IP 68
PUR
PUR shielded
PVC
PVC shielded
Complementary (NO/NC) \swarrow - / \searrow

30 V DC
Molded-on
4×0.34mm²
IP 68
-25 °C...+80 °C
-5 °C...+80 °C
Complementary (NO/NC) \swarrow - / \searrow
green/yellow

250 V AC
250 V DC
Molded-on
4×0.34mm²
IP 68
-25 °C...+80 °C
-5 °C...+80 °C
Complementary (NO/NC) \swarrow - / \searrow

Cable material	Color	Length	Ordering code	Part number
PUR	black	0.3 m	BCC039H	BCC03A1
			BCC M415-M414-3A-304-PX0434-003	BCC M415-M414-3A-606-PX0434-003
PUR	black	0.6 m	BCC039J	BCC03A2
			BCC M415-M414-3A-304-PX0434-006	BCC M415-M414-3A-606-PX0434-006
PUR	black	1 m	BCC039K	BCC03A3
			BCC M415-M414-3A-304-PX0434-010	BCC M415-M414-3A-606-PX0434-010
PUR	black	1.5 m	BCC039L	BCC03A4
			BCC M415-M414-3A-304-PX0434-015	BCC M415-M414-3A-606-PX0434-015
PUR	black	2 m	BCC039M	BCC03A5
			BCC M415-M414-3A-304-PX0434-020	BCC M415-M414-3A-606-PX0434-020
PUR	black	3 m	BCC039N	BCC03A6
			BCC M415-M414-3A-304-PX0434-030	BCC M415-M414-3A-606-PX0434-030
PUR	black	5 m	BCC039P	BCC03A7
			BCC M415-M414-3A-304-PX0434-050	BCC M415-M414-3A-606-PX0434-050
PVC	gray	0.3 m	BCC03C9	BCC03CU
			BCC M415-M414-3A-304-VX8434-003	BCC M415-M414-3A-606-VX8434-003
PVC	gray	0.6 m	BCC03CA	BCC03CW
			BCC M415-M414-3A-304-VX8434-006	BCC M415-M414-3A-606-VX8434-006
PVC	gray	1 m	BCC03CC	BCC03CY
			BCC M415-M414-3A-304-VX8434-010	BCC M415-M414-3A-606-VX8434-010
PVC	gray	1.5 m	BCC03CE	BCC03CZ
			BCC M415-M414-3A-304-VX8434-015	BCC M415-M414-3A-606-VX8434-015
PVC	gray	2 m	BCC03CF	BCC03E0
			BCC M415-M414-3A-304-VX8434-020	BCC M415-M414-3A-606-VX8434-020
PVC	gray	3 m	BCC03CH	BCC03E1
			BCC M415-M414-3A-304-VX8434-030	BCC M415-M414-3A-606-VX8434-030
PVC	gray	5 m	BCC03CJ	BCC03E2
			BCC M415-M414-3A-304-VX8434-050	BCC M415-M414-3A-606-VX8434-050

Other cable materials, colors and lengths on request.
Connectors without LED are suitable for PNP and NPN switching functions.
NPN versions on request.



Connection cable

M12-female right-angle ↔ M12-male straight or right-angle, 4-pin, no LED

M12 ↔ M12

Connection cable

M12-female right-angle ↔ M12-male straight, 4-pin, with LED



Connector diagram and wiring	Diagram I	Diagram II	Diagram I	Diagram II	Diagram I	Diagram II	Diagram I	Diagram II
Operating voltage max. AC U _B	250 V AC	250 V AC	250 V AC	250 V AC	30 V DC	30 V DC	30 V DC	30 V DC
Operating voltage max. DC U _B	250 V DC	250 V DC	250 V DC	250 V DC	Molded-on	Molded-on	Molded-on	Molded-on
Cable	Molded-on	Molded-on	Molded-on	Molded-on	4x0.34mm ²	4x0.34mm ²	4x0.34mm ²	4x0.34mm ²
No. of wires × cross-section	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	4×0.34mm ²	IP 68	IP 68	IP 68	IP 68
Enclosure rating per IEC 60529	IP 68	IP 68	IP 68	IP 68	-25 °C...+80 °C	-25 °C...+80 °C	-25 °C...+80 °C	-25 °C...+80 °C
Ambient temperature T _a	PUR	PUR	PUR	PUR	PUR shielded	PUR shielded	PUR shielded	PUR shielded
	PVC	PVC	PVC	PVC	PVC shielded	PVC shielded	PVC shielded	PVC shielded
Version	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	Complementary (NO/NC) ✓- / -✓	PNP-complementary (NO/NC) ✓- / -✓	PNP-complementary (NO/NC) ✓- / -✓	PNP-complementary (NO/NC) ✓- / -✓	PNP-complementary (NO/NC) ✓- / -✓
LED					green/yellow	green/yellow	green/yellow/white	green/yellow/white

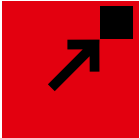
Cable material	Color	Length	Ordering code	Ordering code	Ordering code	Ordering code	
		Part number		Part number		Part number	
PUR	black	0.3 m	BCC03AJ BCC M425-M424-3A-304-PX0434-003	BCC03A8 BCC M425-M414-3A-304-PX0434-003	BCC03AT BCC M425-M414-3A-606-PX0434-003	BCC03C2 BCC M425-M414-3A-650-PX0434-003	
PUR	black	0.6 m	BCC03AK BCC M425-M424-3A-304-PX0434-006	BCC03A9 BCC M425-M414-3A-304-PX0434-006	BCC03AU BCC M425-M414-3A-606-PX0434-006	BCC03C3 BCC M425-M414-3A-650-PX0434-006	
PUR	black	1 m	BCC03AL BCC M425-M424-3A-304-PX0434-010	BCC03AA BCC M425-M414-3A-304-PX0434-010	BCC03AW BCC M425-M414-3A-606-PX0434-010	BCC03C4 BCC M425-M414-3A-650-PX0434-010	
PUR	black	1.5 m	BCC03AM BCC M425-M424-3A-304-PX0434-015	BCC03AC BCC M425-M414-3A-304-PX0434-015	BCC03AY BCC M425-M414-3A-606-PX0434-015	BCC03C5 BCC M425-M414-3A-650-PX0434-015	
PUR	black	2 m	BCC03AN BCC M425-M424-3A-304-PX0434-020	BCC03AE BCC M425-M414-3A-304-PX0434-020	BCC03AZ BCC M425-M414-3A-606-PX0434-020	BCC03C6 BCC M425-M414-3A-650-PX0434-020	
PUR	black	3 m	BCC03AP BCC M425-M424-3A-304-PX0434-030	BCC03AF BCC M425-M414-3A-304-PX0434-030	BCC03C0 BCC M425-M414-3A-606-PX0434-030	BCC03C7 BCC M425-M414-3A-650-PX0434-030	
PUR	black	5 m	BCC03AR BCC M425-M424-3A-304-PX0434-050	BCC03AH BCC M425-M414-3A-304-PX0434-050	BCC03C1 BCC M425-M414-3A-606-PX0434-050	BCC03C8 BCC M425-M414-3A-650-PX0434-050	
PVC	gray	0.3 m	BCC03EA BCC M425-M424-3A-304-VX8434-003	BCC03E3 BCC M425-M414-3A-304-VX8434-003	BCC03EL BCC M425-M414-3A-606-VX8434-003	BCC03EW BCC M425-M414-3A-650-VX8434-003	
PVC	gray	0.6 m	BCC03EC BCC M425-M424-3A-304-VX8434-006	BCC03E4 BCC M425-M414-3A-304-VX8434-006	BCC03EM BCC M425-M414-3A-606-VX8434-006	BCC03Y4 BCC M425-M414-3A-650-VX8434-006	
PVC	gray	1 m	BCC03EE BCC M425-M424-3A-304-VX8434-010	BCC03E5 BCC M425-M414-3A-304-VX8434-010	BCC03EN BCC M425-M414-3A-606-VX8434-010	BCC03EZ BCC M425-M414-3A-650-VX8434-010	
PVC	gray	1.5 m	BCC03EF BCC M425-M424-3A-304-VX8434-015	BCC03E6 BCC M425-M414-3A-304-VX8434-015	BCC03EP BCC M425-M414-3A-606-VX8434-015	BCC03F0 BCC M425-M414-3A-650-VX8434-015	
PVC	gray	2 m	BCC03EH BCC M425-M424-3A-304-VX8434-020	BCC03E7 BCC M425-M414-3A-304-VX8434-020	BCC03ER BCC M425-M414-3A-606-VX8434-020	BCC03F1 BCC M425-M414-3A-650-VX8434-020	
PVC	gray	3 m	BCC03EJ BCC M425-M424-3A-304-VX8434-030	BCC03E8 BCC M425-M414-3A-304-VX8434-030	BCC03ET BCC M425-M414-3A-606-VX8434-030	BCC03F2 BCC M425-M414-3A-650-VX8434-030	
PVC	gray	5 m	BCC03EK BCC M425-M424-3A-304-VX8434-050	BCC03E9 BCC M425-M414-3A-304-VX8434-050	BCC03EU BCC M425-M414-3A-606-VX8434-050	BCC03F3 BCC M425-M414-3A-650-VX8434-050	

Other cable materials, colors and lengths on request. Connectors without LED are suitable for PNP and NPN switching functions. NPN versions on request.

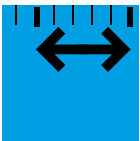


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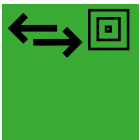
sensors worldwide



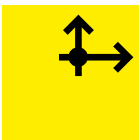
Object Detection



Linear Position Sensing



Industrial Identification



Industrial Networking and Connectivity



Mechanical Accessories



Balluff GmbH
Schurwaldstrasse 9
73765 Neuhausen a.d.F.
Germany
Phone +49 7158 173-0
Fax +49 7158 5010
balluff@balluff.de

 www.balluff.com