

# PRODUCT SUMMARY



# CIRCULAR CONNECTORS OF THE SPECIALIST



# Contents

Subminiature Connectors	Range	Description	Series	Degree of protection	Voltage	Current	No. of contacts	EMC	Ø in mm	Termination								moulded connectors	Locking				
										solder	dip solder	SMT	screw	crimp	Wire clamp	IDT	biatec®		screw	Bayonet	snap-in	Push-Pull	
	Snap-in IP40	Snap-in Connectors	719 · 709	IP40	60 V	3 A	3–5	—	8–9	• 719	• 719							• 709			•		
	Snap-in IP67	Snap-in Connectors	620	IP67	63/125 V	1–3 A	3–8	—	11,5	•	•							•			•		
	Bayonett	Bayonet Connectors	710	IP40	125 V	1–4 A	2–8	—	12	•											•		
	MPP IP67	Micro Push-Pull Connectors	420	IP67	125 V	1 A	3–5	—	9,5	•												•	
	PP IP67	Push-Pull Connectors	430	IP67/40	125 V	1–4 A	3–8	•/—	14,5	•	•											•	
	M9 IP40	M9 Connectors	711	IP40	125 V	1–4 A	2–8	—	11,5	•	•											M9 x 0,5	
	M9 IP67	M9 Connectors	712 · 702	IP67	125 V	1–4 A	2–8	•/—	11,5–14	•	•							• 702				M9 x 0,5	
<b>Miniature Connectors</b>																							
	Snap-in IP67	Snap-in Connectors	720	IP67	60/250 V	2–7 A	3–12	—	16–19	•	•							•				•	
	Bayonett	Bayonet Connectors	678	IP40	60/250 V	1–7 A	2–24	—	20	•												•	
	Bayonett NCC	Bayonet Connectors NCC	770	IP67	175 V	2 A	8	—	16–23	•	•											•	
	Push-Pull	Push-Pull Connectors	440	IP67	60/250 V	3–7 A	3–19	•/—	20	•													•
	M16 IP40	M16 Connectors	581 · 680 · 682	IP40	60/250 V	1–7 A	2–24	•/—	17–19	•	•		•	•									M16 x 0,75
	M16 IP67	M16 Connectors	423 · 723 · 425	IP67	60/250 V	1–7 A	2–24	•/—	18,5–21,5	•	•		•	•				• 425					M16 x 0,75
<b>Power Connectors</b>																							
	M23	M23 Connectors	623	IP67	150/300 V	8–20 A	6–19	•/—	25	•													M23 x 1
	Bayonet	Bayonet Connectors	690	IP40	125/250 V	5–10 A	3–12	—	28,5	•												•	
	M25	M25 Connectors	691	IP40	125/250 V	5–10 A	3–12	—	28,5	•													M25 x 1
	RD24	RD24 Connectors	692 · 693	IP67	250/400 V	10–16 A	3+PE–6+PE	—	29	•			•	•				• 692					RD24
	Bayonet HEC	Bayonet Connectors HEC	696	IP68/69K	60/600 V	3–32 A	5,8(4+3+PE), 12	—	36				•									•	
	RD30	RD30 Connectors	694	IP65	125/400 V	3–20 A	4+PE–24	—	40	•			•										RD30
<b>Connectors for medical applications</b>																							
	ELC	Easy Locking Connectors	570	IP54	150 V	2 A	12	—	— (21)	•													•
	Snap-in IP67	Snap-in Connectors	620	IP67	125 V	1–3 A	3–8	—	11,5	•	•												•
	Snap-in IP67	Snap-in Connectors	720	IP67	60/250 V	2–7 A	3–12	—	16–19	•	•												•
	Bayonet NCC	Bayonet Connectors NCC	770	IP67	175 V	2 A	8	—	16–19	•	•											•	
<b>Automation Technology – Sensors &amp; Actuators</b>																							
	M5	M5 Connectors	707	IP67	60 V	1 A	3–4	•/—	6,5	•	•							•					M5 x 0,5
	M8	M8 Connectors	768 · 718	IP65/67/69K	30/60 V	1,5–4 A	3–12	•/—	10–14	• 768	•		• 768				• 768	• 768	• 718				• 718
	M12-A	M12 Connectors A-Coding	713 · 763	IP40/67/68/69K	30/250 V	1,5–8 A	3–12	•	15–20	• 763	• 763	• 763	• 713	• 713	• 713	• 713	• 713	• 763					M12 x 1
	Connecting Cables	Connecting Cables	765	IP65/67/68/69K	30/250 V	2–4 A	3–5	—	10–15									•					M8/M12
<b>Automation Technology – Distributors · AS interface</b>																							
	Verteiler · AS-Interface	Distributors · AS interface	772 · 775	IP67/68	10/30 V	1–10 A	—	—					•										M8/M12/M16/M23
<b>Automation Technology – Data Transmission &amp; Power Supply</b>																							
	M12-B	M12 Connectors B-Coding	715 · 766	IP67/68	60/250 V	1/4 A	2–5	•	15–20	•	• 766	•	• 715	• 715	• 715			• 766					M12 x 1
	M12-D · M12-X	M12 Connectors D-/X-Coding	825 · 876	IP67	50 V AC/60 V DC/250 V	0,5–4 A	4, 8	•	15–20	•	•	•	• 825	• 825			• 825	• 876					M12 x 1
	M12-S · M12-K	M12 AC-Connectors S-/K-Coding	814	IP67/68	630 V	12/16 A	2–4+PE	—	15–25				•					•					M12 x 1
	M12-T · M12-L	M12 DC-Connectors T-/L-Coding	813	IP67/68	63 V	12/16 A	4, 4+FE	—	15–25	•	•		•					•					M12 x 1
	M12-US (-C)	M12 Connectors US- (-C)-Coding	815 · 866	IP67/68	60/250 V	2–4 A	2+PE, 3, 4, 5	—	15–20	•			• 815					• 866					1/2"/M12 x 1
	M18	M18 Connectors	714	IP67	250 V	5/16 A	4	—	26	•	•		•										M18 x 1
	7/8"	7/8" Connectors	820 · 870	IP67	300 V	8–12 A	2+PE–4+PE	—	26–28		• 820		• 820					• 870					7/8"
<b>Automation Technology – Solenoid Valve Connectors</b>																							
	Size A	Solenoid Valve Connectors M-A	210	IP65/67	60/250 V	2–10 A	2–3+PE	—	—	•			•	•				•					M3
	Size B	Solenoid Valve Connectors M-B	220	IP65/67	60/250 V	4–10 A	2+PE	—	—	•			•					•					M3
	Size C	Solenoid Valve Connectors M-C	230	IP65/67	60/250 V	4–6 A	2–3+PE	—	—	•			•					•					M3
<b>LED</b>																							
	LED Lights	LED Lights	976	IP67/68/69K	24 V DC	0,24–0,46 A	4	—	20														M12 x 1

Number of contacts	2–8
Current	1–4 A
Voltage	60–125 V
Cable outlet	2,5–5 mm
Degree of protection	IP40 and IP67
Diameter	8–14,5 mm
Shielding	shieldable/not shieldable

## Snap-in IP40

### ■ 719 · 709 Series

#### Snap-in Connectors IP40

- Connectors with snap-in locking
- Connectors moulded on cable
- Versions with and without strain relief
- Degree of protection IP40
- Diameter or breadth only 9 mm
- 2 m and 5 m cable length
- Easy assembly



## Snap-in IP67

### ■ 620 Series

#### Snap-in Connectors IP67

- Connectors with snap-in locking
- Connectors moulded on cable
- Degree of protection IP67
- Internal strain relief
- Easy assembly
- Versions with colour-coding



## Bayonet IP40

### ■ 710 Series

#### Bayonet Connectors

- Connectors with quick bayonet locking
- Degree of protection IP40
- Cable outlet in 2 sizes
- Cable housing with integrated strain relief
- Connector diameter 12 mm



## Micro Push-Pull IP67

### ■ 420 Series

#### Micro Push-Pull Connectors

- Connectors with push-pull locking
- Degree of protection IP67
- Cable outlet 3–4 mm
- Pressing screw with immunity to vibration
- Easy assembly



## Push-Pull IP67

### ■ 430 Series

#### Push-Pull Connectors

- Connectors with push-pull locking
- Degree of protection IP67/IP40
- Shielded cable connectors with excellent EMC protection
- Cable outlet 3,5–5 mm
- Pressing screw with immunity to vibration



## M9 IP40

### ■ 711 Series

#### M9 Connectors IP40

- Connectors with screw locking
- Degree of protection IP40
- Cable outlet in 2 sizes
- Cable housing with integrated strain relief



## M9 IP67

### ■ 712 · 702 Series

#### M9 Connectors IP67

- Connectors with screw locking
- Connectors moulded on cable
- Connectors and cable with 360° EMC protected shielding
- Metal housing with 360° EMC protected shielding
- Degree of protection IP67
- 2 m and 5 m cable length
- Easy assembly



Number of contacts	2–24
Current	1–7 A
Voltage	60–250 V
Cable outlet	3–8 mm
Degree of protection	IP40 and IP67
Diameter	16–21,5 mm
Shielding	shieldable/not shieldable

## Snap-in IP67

■ 720 Series

### Snap-in Connectors IP67

- Connectors with snap-in locking
- Connectors moulded on cable
- Degree of protection IP67
- Internal strain relief
- Easy assembly
- Versions with colour-coding



## Bayonet IP40

■ 678 Series

### Bayonet Connectors

- Connectors with bayonet locking
- Degree of protection IP40
- Assembly with self tapping screw (no conductive connection between inner and outer shell)
- Internal strain relief



## Bayonet NCC

■ 770 Series

### Bayonet Connectors NCC

- Connectors with bayonet locking
- Degree of protection of cable part IP67 when mated and locked correctly
- Degree of protection of socket part when not connected IP67
- Cable outlet 2,5–8 mm
- > 5000 mating cycles
- Easy assembly



## Push-Pull IP67

■ 440 Series

### Push-Pull Connectors

- Connectors with push-pull locking
- Degree of protection IP67
- Shielded cable connectors with excellent EMC protection
- Cable outlet 4–8 mm
- Pressing screw with immunity to vibration



## M16 IP40

■ 581 • 680 • 682 Series

### M16 Connectors IP40

- Connectors with screw locking according to DIN EN 61076-2-106
- Degree of protection IP40
- Good EMC characteristics
- Versions with cable bushing (good antikink), pinching and solder ring or with cable clamp
- Internal strain relief
- With preassembled solder ring for good ground connection
- Cost-effective plastic versions



## M16 IP67

■ 423 • 723 • 425 Series

### M16 Connectors IP67

- Connectors with screw locking according to DIN EN 61076-2-106
- Degree of protection IP67
- Excellent EMI shielding (versions with shielding rings 360°)
- Internal strain relief
- Versions with shielding rings or cable clamp
- Straight and angled versions
- Further cable lengths, diameters and number of contacts upon request



Connectors	Screw and bayonet locking
Current	3–25 A
Voltage	up to 400 V
Degree of protection	IP40/IP65/IP67/IP68/IP69K
Diameter	25–40 mm
Shielding	shieldable/not shieldable

## M23

### 623 Series

#### M23 Connectors IP67

- Connectors with screw locking
- Degree of protection IP67
- Shieldable and not shieldable versions
- Metal construction
- M23 thread



## Bayonet IP40

### 690 Series

#### Bayonet Connectors IP40

- Connectors with bayonet locking
- Degree of protection IP40
- Internal strain relief
- Transparent cable bushing



## M25

### 691 Series

#### M25 Connectors IP40

- Connectors with screw locking
- Degree of protection IP40
- Internal strain relief
- Transparent cable bushing



## RD24

### 692 • 693 Series

#### RD24 Connectors IP67

- Connectors with screw locking
- Connectors moulded on cable
- Degree of protection IP67
- 3 termination possibilities:
  - Solder termination
  - Screw termination
  - Crimp termination for turned crimp contacts
- VDE-, UL- and SEV approval



## Bayonet HEC

### 696 Series

#### Bayonet Connectors HEC

- Connectors with bayonet locking
- Degree of protection IP68/IP69K
- VDE-, UL approval
- Crimp termination



## RD30

### 694 Series

#### RD30 Connectors IP65

- Connectors with screw locking
- Degree of protection IP65
- Internal strain relief
- Connectors with solder- and screw versions
- Cable outlet up to 16 mm
- Angled connectors adjustable in 8 angled positions



# CONNECTORS FOR MEDICAL APPLICATIONS

Connectors	Snap-in- and bayonet locking
Current	1–7 A
Voltage	60–250 V
Degree of protection	IP54 and IP67
Diameter	11,5–20 mm
Shielding	not shieldable

## Snap-in ELC

### ■ 570 Series

#### Easy Locking Connector ELC

- Snap-in locking system with snap hooks
- Degree of protection of cable part IP54 when mated and locked correctly
- Degree of protection of socket part when not connected IP54
- Cable outlet 4–8 mm
- > 5000 mating cycles
- Ergonomic design of connector
- Colour similar to RAL 9002



## Snap-in IP67

### ■ 620 Series

#### Snap-in Connectors IP67

- Connectors with snap-in locking
- Degree of protection IP67
- Internal strain relief
- Easy assembly
- Versions with colour-coding
- Colour similar to RAL 9002



## Snap-in IP67

### ■ 720 Series

#### Snap-in Connectors IP67

- Connectors with snap-in locking
- Degree of protection IP67
- Internal strain relief
- Easy assembly
- Versions with colour-coding
- Colour similar to RAL 9002



## Bayonet NCC

### ■ 770 Series

#### Bayonet Connectors NCC

- Connectors with bayonet locking
- Degree of protection of cable part IP67 when mated and locked correctly
- Degree of protection of socket part when not connected IP67
- Cable outlet 2,5–8 mm
- > 5000 mating cycles
- Easy assembly
- Colour similar to RAL 9002



# AUTOMATION TECHNOLOGY

SENSORS & ACTUATORS

Number of contacts	3, 4, 5, 8 and 12 contacts
Locking	M5/M8/M12 thread
Contact figures	acc. to DIN EN 61076-2-101/104
Connectors	Cable-, Panel mount connectors, Receptacles
Termination	Field wireable/moulded on cable
Degree of protection	IP65/IP67/IP68/IP69K
Shielding	shieldable/not shieldable

## M5

### 707 Series

#### M5 Connectors

- Connectors with M5 x 0,5 screw locking
- Connectors moulded on cable
- Shielded and unshielded versions
- Thread nut with immunity to vibration
- Degree of protection IP67
- Versions with 3 and 4 contacts
- 2 m and 5 m cable length
- Optionally with UL approval
- Further cable lengths upon request



## M8

### 768 · 718 Series

#### M8 Connectors

- Connectors with M8 x 1 screw locking or snap-in locking 8 mm
- Connectors moulded on cable
- Shielded and unshielded versions
- Degree of protection IP65/IP67/IP69K
- Metal housing with 360° EMC protected shielding
- Field wireable, screw- and solder termination
- 2 m and 5 m cable length, chain flex ability
- UL approval
- Further cable lengths upon request



## M12-A

### 713 · 763 Series

#### M12 Connectors A-Coding

- Connectors with M12 x 1 screw locking
- Connectors moulded on cable
- Shielded and unshielded
- Degree of protection IP67/IP68/IP69K
- Field wireable
- Panel mount connectors <sup>1)</sup>
- Transparent housings for PCB with LED display
- 2 m and 5 m cable length, chain flex ability
- UL approval
- Further cable lengths upon request



<sup>1)</sup> different types of connection

## Connecting Cables

### 765 Series

#### Connecting Cables

- Connecting cords of M5, M8 and M12
- „T/Y“ 2-way distributors, adapter and lead-through for control cabinet
- Degree of protection IP65/IP67/IP68
- 1 m and 2 m cable length
- Duo-Connectors moulded on cable, with wiring
- Connectors for Food & Beverage applications
- Further cable lengths upon request



## Distributors · AS interface

### 772 · 775 Series

#### Distributors, AS interface

- Ready to connect, pluggable and interface boxes for assembly
- Degree of protection IP67
- 4 or 8 in/outlets for M8 or M12 connectors
- Operation- and function LED
- Compatible with connectors of M8 and M12 series
- AS interface clamps for sensors and actuators
- AS interface connecting cables
- AS interface field wireable flat cable clamps



# AUTOMATION TECHNOLOGY

DISTRIBUTORS & AS INTERFACE

Mating technology	M8/M12 acc. to DIN EN 61076-2-101/104
In- and outlets	4, 8
Multipol-Termination	M12, M16, M23, Field wireable, Cable versions
Degree of protection	IP67



Coding	B-, D-/X-, S-/K-, T-/L- and US- (C) Coding
Number of contacts	2, 3, 4, 5 and 8 contacts
Connectors	Cable-, Panel mount connectors, Receptacles
Termination	Field wireable/moulded on cable
Degree of protection	IP67 and IP68

## M12-B

### 715 • 766 Series

#### M12 Connectors B-Coding

- Connectors with M12 x 1 screw locking "reverse key" for Profibus
- Connectors moulded on cable
- Metal housing with 360° EMC protected shielding
- Degree of protection IP67/IP68
- Field wireable, screw, crimp and wire clamp termination
- 2 m and 5 m cable length
- UL approval
- Further cable lengths upon request



## M12-D/M12-X

### 825 • 876 Series

#### M12 Connectors D-/X-Coding

- Connectors with M12 x 1 screw locking "D-and X-coded" for Profinet and Ethernet applications
- Connectors moulded on cable
- Receptacles
- RJ45
- Shieldable/360° shielding
- Screw termination/IDT connection
- Degree of protection IP67
- Transmission features  
DIN EN 50173/CAT 5/CAT6<sub>A</sub>
- UL approval



## M12-S/M12-K

### 814 Series

#### M12 AC-Connectors S-/K-Coding

- Connectors with M12 x 1 screw locking
- S-coded
- K-coded
- Connectors moulded on cable
- Degree of protection IP67
- Field wireable
- Screw clamp connection



## M12-T/M12-L

### 813 Series

#### M12 DC-Connectors T-/L-Coding

- Connectors with M12 x 1 screw locking
- T-coded
- L-coded
- Connectors moulded on cable
- Degree of protection IP67
- Field wireable
- Screw clamp connection



## M12-US (-C)

### 815 • 866 Series

#### M12 Connectors US- (C-)Coding

- Connectors with 1/2" UNF or M12 x 1 screw locking
- US- (C-) Coding (micro change)
- Connectors moulded on cable
- Degree of protection IP67
- Field wireable
- Screw termination
- UL approval



## M18

### 714 Series

#### M18 Connectors

- Connectors with M18 x 1 screw locking
- Degree of protection IP67
- Field wireable
- Connectors with screw- and solder termination



## 7/8"

### 820 • 870 Series

#### 7/8" Connectors

- Connectors with 7/8" 16 UNF screw locking (mini change)
- Connectors moulded on cable
- Degree of protection IP67/68
- Field wireable, screw termination
- Panel mount connectors with wires and dip-solder termination
- UL approval



# M12 – ONE CONNECTOR FOR EVERYTHING

In industrial environments, to prevent mismatching, device connections require standardised, non-interchangeable connectors.



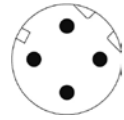
## M12 A-CODING

Current	Voltage	Degree of protection	Contacts	Application
1,5 - 8 A	30 - 250 VAC	IP67/IP68/IP69K	3 - 12	Power, Signal, CAN, CANopen, PROFIBUS PA, DeviceNet



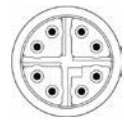
## M12 B-CODING

Current	Voltage	Degree of protection	Contacts	Application
4 A	60 - 250 VAC	IP67/IP68	4 - 5	PROFIBUS DP



## M12 D-CODING

Current	Voltage	Degree of protection	Contacts	Application
4 A	250 VAC	IP67	4	Ethernet, EtherCAT, PROFINET, Sercos



## M12 X-CODING

Current	Voltage	Degree of protection	Contacts	Application
0,5 A	50 VAC/60VDC	IP67	8	Ethernet, PROFINET



## M12 S-CODING

Current	Voltage	Degree of protection	Contacts	Application
12 A	630 VAC	IP67	3 + PE	Power supply



## M12 T-CODING

Current	Voltage	Degree of protection	Contacts	Application
12 A	63 VDC	IP67	4	Power supply



## M12 K-CODING

Current	Voltage	Degree of protection	Contacts	Application
12 A	630 VAC	IP67	4 + PE	Power supply



## M12 L-CODING

Current	Voltage	Degree of protection	Contacts	Application
16 A	63 VDC	IP67	4 + FE	Power supply, PROFINET



## M12 US/C-CODING

Current	Voltage	Degree of protection	Contacts	Application
4 A	250 VAC	IP67	3 - 5	Signal



# AUTOMATION TECHNOLOGY

## SOLENOID VALVE

Size	A/B/C DIN EN 175301-803 B/C Industrial standard high and low size
Types	Field wireable/moulded on cable/ wired
Degree of protection	IP65 and IP67

### Size A

#### ■ 210 Series

##### Size A

- Connectors according to DIN EN 175301-803 (replaces 43650)
- Connectors moulded on cable
- Degree of protection IP65/IP67
- Field wireable
- Wired versions

### Size B

#### ■ 220 Series

##### Size B

- Connectors according to DIN EN 175301-803 (replaces 43650)
- Industrial standard connectors
- Connectors moulded on cable
- Degree of protection IP65/IP67
- Field wireable
- Wired versions

### Size C

#### ■ 230 Series

##### Size C

- Connectors according to DIN EN 175301-803 (replaces 43650)
- Industrial standard connectors
- Connectors moulded on cable
- Degree of protection IP65/IP67
- Field wireable
- Wired versions



# LED LIGHTS

Mating technology	M12 acc. to DIN EN 61076-2-101/104
Contacts	4
Degree of protection	IP67, IP68 (water depth 2 m) and IP69K

### LED

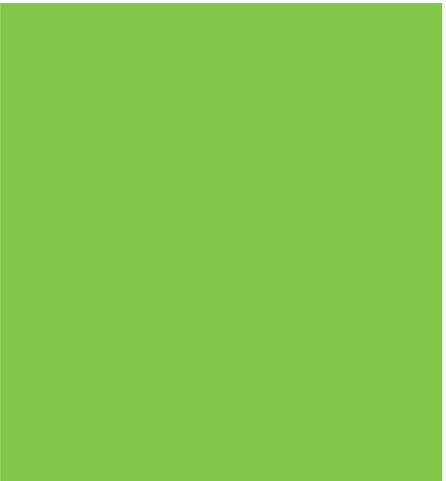
#### ■ 976 Series

##### LED Lights

- Termination system M12 A-coded
- Field-wireable/moulded female cable connector
- Three different light lengths
- Two different housing materials
- Degree of protection IP69K
- Quick fitting
- Easy installation kit
- More accessories upon request



# CIRCULAR CONNECTORS OF THE SPECIALIST



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