

SUMMARY

2018



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	
Miniature Connectors																								
	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	
Power Connectors																								
	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	
Connectors for medical applications																								
	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	•	•												•	
Automation Technology – Sensors & Actuators																								
	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	• 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	
Automation Technology – Distributors · AS interface																								
	Verteiler · AS-Interface	Distributors · AS interface	772 · 775	IP67/68	10/30 V	1-10 A	—	—					•										M8/M12/M16/M23	
Automation Technology – Data Transmission & Power Supply																								
	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"	
Automation Technology – Solenoid Valve Connectors																								
	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	
LED																								
	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 ¹⁾
- Transparent housings for PCB with LED display
- 2 m and 5 m cable length, chain flex ability
- UL approval
- Further cable lengths upon request



¹⁾ 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_A
- 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.



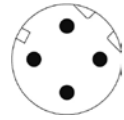
M12 A-CODING

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



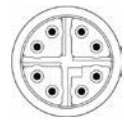
M12 B-CODING

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

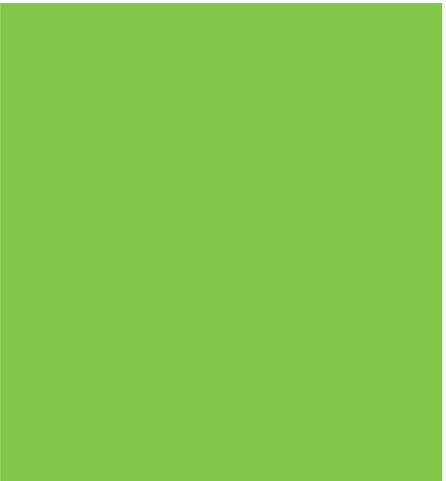
■ 976 Series

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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