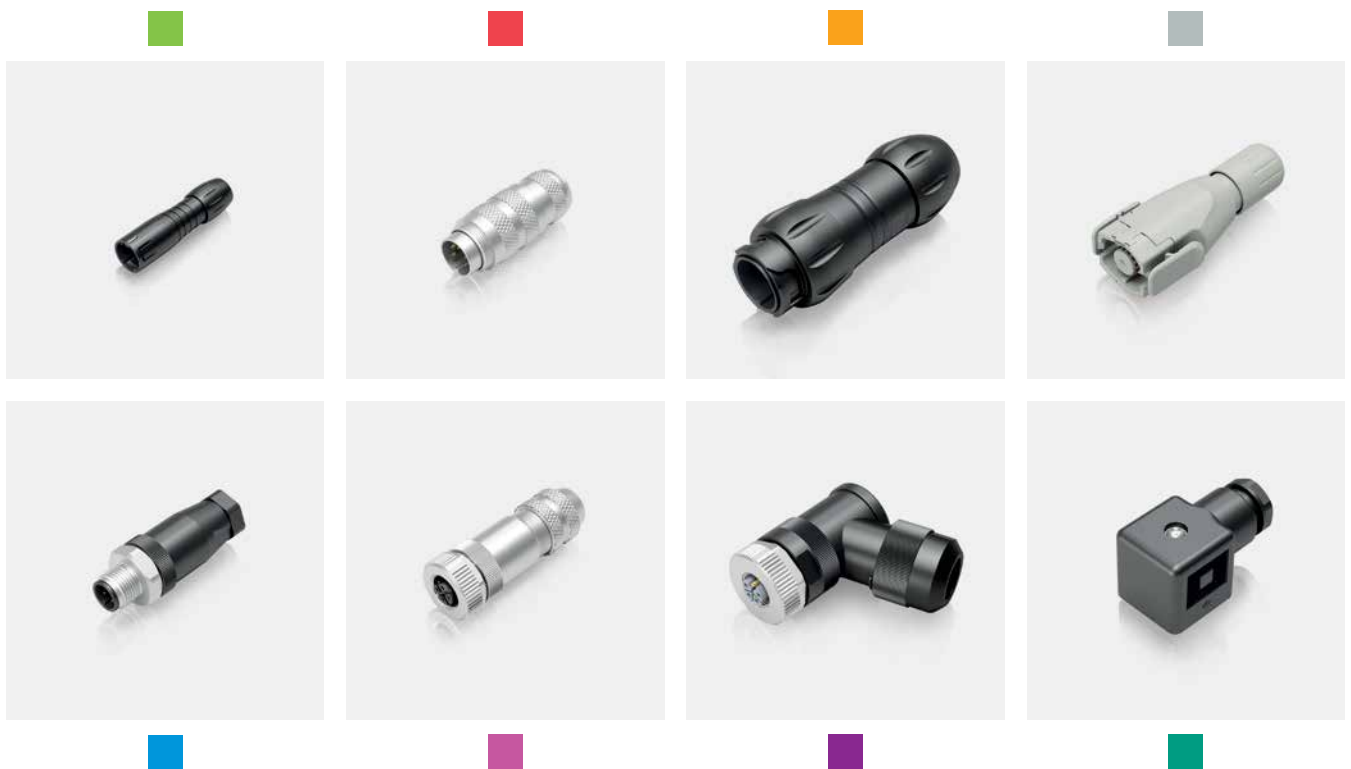


## PRODUCT PORTFOLIO





# Contents

Range	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	screw	Bayonet	snap-in	Push-Pull
<b>Subminiature</b>																			
	Snap-in IP40	719 · 709	IP40	60 V	3 A	3 – 5	—	8 – 9	• 719	• 719						• 709			•
	Snap-in IP67	620	IP67	63 / 125 V	1–3 A	3 – 8	—	11.5	•	•						•			•
	Bayonet NCC	670	IP54	50 V	2 A	5	—	16 – 17	•	•								•	
	Bayonet	710	IP40	125 V	1–4 A	2 – 8	—	12	•									•	
	Micro Push-Pull	420	IP67	125 V	1 A	3 – 5	—	9,5	•										•
	Push-Pull	430	IP67 / IP40	125 V	1–4 A	3 – 8	•/—	14.5	•	•									•
	M9 IP40	711	IP40	125 V	1–4 A	2 – 8	—	11.5	•	•							M9 x 0.5		
	M9 IP67	712 · 702	IP67	125 V	1–4 A	2 – 8	•/—	11.5 – 14	•	•						• 702	M9 x 0.5		
<b>Miniature</b>																			
	Snap-in IP67	720	IP67	60 / 250 V	2–7 A	3 – 12	—	16 – 19	•	•						•			•
	Bayonet NCC	770	IP67	175 V	2 A	8	—	16 – 23	•	•									•
	Bayonet	678	IP40	60 / 250 V	1–7 A	2 – 24	—	20	•										•
	Push-Pull	440	IP67	60 / 250 V	3–7 A	3 – 19	•/—	20	•										•
	M16 IP40	581 · 680 · 682	IP40	60 / 250 V	1–7 A	2 – 24	•/—	17 – 19	•	•		•	•				M16 x 0.75		
	M16 IP67	423 · 723 · 425	IP67	60 / 250 V	1–7 A	2 – 24	•/—	18.5 – 21.5	•	•		•	•			• 425	M16 x 0.75		
	M16-X	415	IP67	50 V AC / 60 V DC	0.5 A	8	—	20							•		M16 x 0.75		
<b>Power</b>																			
	Bayonet IP40	690	IP40	125 / 250 V	5–10 A	3 – 12	—	28.5	•										•
	M25	691	IP40	125 / 250 V	5–10 A	3 – 12	—	28.5	•								M25 x 1		
	RD24	693	IP67	250 / 400 V	10–16 A	3+PE – 6+PE	—	29	•			•	•			• 692	RD24		
	RD30	694	IP65	125 / 400 V	3–20 A	4+PE – 24	—	40	•			•					RD30		
	Bayonet HEC	696	IP68 / IP69K	60 / 600 V	3–32 A	5, 8 (4 + 3+PE), 12	—	36				•							•
<b>Connectors for medical applications</b>																			
	Snap-in ELC	570	IP54	150 V	2 A	12	—	— (21)	•										•
	Snap-in IP67	620	IP67	125 V	1 – 3 A	3 – 8	—	11.5	•	•									•
	Snap-in IP67	720	IP67	60 / 250 V	2 – 7 A	3 – 12	—	16 – 19	•	•									•
	Bayonet NCC	770	IP67	175 V	2 A	8	—	16 – 19	•	•									•
<b>Automation Technology – Sensors &amp; Actuators</b>																			
	M5	707	IP67	60 V	1 A	3 – 4	•/—	6.5	•	•						•	M5 x 0.5		
	M8	768 · 718	IP65 / IP67 / IP69K	30 / 60 V	1.5 – 4 A	3 – 12	•/—	10 – 14	• 768	•		• 768			• 768	• 718	M8 x 1		• 718
	M12-A	713 · 763	IP40 / IP67 / IP68 / IP69K	30 / 250 V	1.5 – 8 A	3 – 12	•	15 – 20	• 763	• 763	• 763	• 713	• 713	• 713	• 713	• 763	M12 x 1		
	Special Connections	765	IP65 / IP67 / IP68 / IP69K	30 / 250 V	2 – 4 A	3 – 5	—	10 – 15								•	M8/M12		
<b>Automation Technology – Data Transmission</b>																			
	M8-D	818	IP67	60 V	1 A	4			•	•		•				•	M8 x 1		
	M12-B	715 · 766	IP67 / IP68	60 / 250 V	1 / 4 A	2 – 5	•	15 – 20	•	• 766	•	• 715	• 715	• 715		• 766	M12 x 1		
	M12-D · M12-X	825 · 876	IP67	50 V AC / 60 V DC / 250 V	0.5 – 4 A	4, 8	•	15 – 20	•	•	•	• 825	• 825		• 825	•	M12 x 1		
	M12 Hybrid	767	IP68 / IP69	63 V DC / 12 V DC	12 / 0.5 A	2+7	—	15			•					•	M12 x 1		
	M16-X	415	IP67	50 V AC / 60 V DC	0.5 A	8	—	20							•		M16 x 0.75		
<b>Automation Technology – Voltage &amp; Power Supply</b>																			
	M12-S	814	IP67 / IP68	630 V	12 / 16 A	2+PE / 3+PE	—	15 – 25				•				•	M12 x 1		
	M12-K	824	IP67 / IP68	630 V	12 A	4+PE	—	15 – 25				•					M12 x 1		
	M12-T	813	IP67 / IP68	63 V	12 A	4	—	15 – 25			•					•	M12 x 1		
	M12-L	823	IP67 / IP68	63 V	12 / 16 A	4+FE	—	15 – 25			•						M12 x 1		
	M12-US (-C)	815	IP67	250 V	4 A	2+PE	—	20	•			• 815					1/2" / M12 x 1		
	M18	714	IP67	250 V	5 / 16 A	4	—	26	•	•		•					M18 x 1		
	7/8"	820 · 870	IP67	300 V	8 – 12 A	2 – 4+PE	—	26 – 28		• 820		• 820				• 870	7/8"		
<b>Automation Technology – Solenoid Valve Connectors</b>																			
	Size A	210	IP65 / IP67	60 / 250 V	2 – 10 A	2 – 3+PE	—	—	•			•	•			•	M3		
<b>LED</b>																			
	LED Lights	976	IP67 / IP68 / IP69K	24 V DC	0.24 – 0.46 A	4	—	20									M12 x 1		

# SUBMINIATURE

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 NCC

■ 670 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 IP54
- Cable outlet 3–5 mm
- > 1000 mating cycles
- Panel mount connectors with solder and dip solder contacts

## 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



# SUBMINIATURE CONNECTORS

## Micro Push-Pull IP67

■ Serie 420

### 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



# MINIATURE

Number of contacts	2–24
Current	1–7 A
Voltage	60–250 V
Cable outlet	3–10 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
- Panel mount connectors with solder and dip solder contacts
- 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 EMC 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

## M16-X

■ 415 Series

### M16 Connectors IP67

- Connectors with M16 screw locking
- 8 contacts
- Transmission properties ≤ 10 Gbit/s
- Degree of protection IP67
- Shieldable
- Very good EMC characteristics
- Cable outlet 5.5-9 mm
- Diameter 20 mm
- Cable parts with IDT connection
- Female panel mount connector with dip solder contacts
- Female panel mount connector, front fastened
- Easy assembly



Connectors	Screw and bayonet locking
Current	3–32 A
Voltage	up to 600 V
Degree of protection	IP40/IP65/IP67/IP68/IP69K
Diameter	25–40 mm
Shielding	shieldable/not shieldable

## 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

### ■ 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
- Connecting cables
- Connectors for Food & Beverage applications
- 2 m and 5 m cable length, chain flex ability
- UL approval
- Further cable lengths upon request



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

### Special Connections

#### ■ 765 Series

##### Special Connections

- 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
- Further cable lengths upon request





Coding	M8-D, M12 B-, D-/X-Coding M12 Hybrid, M16-X-Coding
Number of contacts	2, 3, 4, 5, 8 and 9 contacts
Connectors	Cable-, Panel mount connectors, Receptacles
Termination	Field wireable/moulded on cable
Schutzart	IP67 and IP68

### M8-D

#### ■ 818 Series

##### M8 Connectors D-Coding

- Connectors with M8 x 1 screw locking 8 mm
- 4 contacts
- Connectors moulded on cable
- Degree of protection IP67
- Connecting cables
- 2 m and 5 m cable length
- PUR cable
- Panel mount connectors with dip solder contacts



### 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
- Panel mount connectors <sup>1)</sup>
- 2 m and 5 m cable length
- UL approval
- Further cable lengths upon request



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

### 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 Hybrid

#### ■ 767 Series

##### M12 Hybrid Connectors IP67

- One Cable Solution
- Power & Signal
- 7 + 2 contacts
- Stainless steel/plastic locking device
- Connectors moulded on cable
- Degree of protection IP68/IP69
- Configurable cable length



### M16-X

#### ■ 415 Series

##### M16 Connectors IP67

- Connectors with M16 screw locking
- 8 contacts
- Transmission properties ≤ 10 Gbit/s
- Degree of protection IP67
- Shieldable
- Very good EMC characteristics
- Cable outlet 5.5-9 mm
- Diameter 20 mm
- Cable parts with IDT connection
- Female panel mount connector with dip solder contacts
- Female panel mount connector, front fastened
- Easy assembly



Coding	S-, K-, T-, L-, US- (C-) Coding, M18, 7/8"
Number of contacts	2/2+PE – 4+PE/4+FE
Connectors	Cable-, Panel mount connectors, Receptacles
Termination	Field wireable/moulded on cable
Degree of protection	IP67 and IP68

### M12-S

#### ■ 814 Series

##### M12 AC-Connectors S-Coding

- Connectors with M12 x 1 screw locking
- Connectors moulded on cable
- Degree of protection IP67
- Field wireable
- Screw clamp connection
- Panel mount connectors
- Front/rear mounting
- Single wires
- Lead through for control cabinets 1,5 mm<sup>2</sup>/2,5 mm<sup>2</sup>



### M12-K

#### ■ 824 Series

##### M12 AC-Connectors K-Coding

- Connectors with M12 x 1 screw locking
- Degree of protection IP67
- Field wireable
- Screw clamp connection
- PE connection
- Panel mount connectors
- Front/rear mounting
- Single wires
- Lead through for control cabinets 1,5 mm<sup>2</sup>/2,5 mm<sup>2</sup>



### M12-T

#### ■ 813 Series

##### M12 DC-Connectors T-Coding

- Connectors with M12 x 1 screw locking
- Connectors moulded on cable
- Degree of protection IP67
- Field wireable
- Screw clamp connection
- Schirmbare Ausführungen
- Panel mount connectors
- Front/rear mounting
- Single wires
- Dip solder connection
- Lead through for control cabinets 1,5 mm<sup>2</sup>



### M12-L

#### ■ 823 Series

##### M12 DC-Connectors L-Coding

- Connectors with M12 x 1 screw locking
- Degree of protection IP67
- Field wireable
- Screw clamp connection
- PE connection
- Panel mount connectors
- Front/rear mounting
- Single wires
- Dip solder connection
- Lead through for control cabinets 1,5 mm<sup>2</sup>/2,5 mm<sup>2</sup>



### M12-US (-C)

#### ■ 815 Series

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

- Connectors with 1/2" UNF or M12 x 1 screw locking
- US- (C-) Coding (micro change)
- 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 V AC	IP67 / IP68 / IP69K	3 - 12	Power, Signal, CAN, CANopen, Profibus PA, Device Net



## M12 B-CODING

Current	Voltage	Degree of protection	Contacts	Application
4 A	60 - 250 V AC	IP67 / IP68	4 - 5	Profibus DP



## M12 D-CODING

Current	Voltage	Degree of protection	Contacts	Application
4 A	250 V AC	IP67	4	Ethernet, Ethercat, Profinet, Sercos



## M12 X-CODING

Current	Voltage	Degree of protection	Contacts	Application
0.5 A	50 V AC/60 V DC	IP67	8	Ethernet, Profinet



## M12 S-CODING

Current	Voltage	Degree of protection	Contacts	Application
12 A/16 A	630 V AC	IP67	2+PE, 3+PE	Power supply



## M12 K-CODING

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



## M12 T-CODING

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



## M12 L-CODING

Current	Voltage	Degree of protection	Contacts	Application
12 A/16 A	63 V DC	IP67	4+PE	Power supply



## M12 US-/C-CODING

Current	Voltage	Degree of protection	Contacts	Application
4 A	250 V AC	IP67	3 - 5	Power, Signal



A-CODING



B-CODING



D-CODING



X-CODING



S-CODING



K-CODING



T-CODING



L-CODING



US-/C-CODING

# AUTOMATION TECHNOLOGY

## SOLENOID VALVE

Size	A DIN EN 175301-803
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



# LED LIGHTS

Mating technology	M12 acc. DIN EN 61076-2-101/104
Number of 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





# SPECIALIA LIST FOR CIR CULAR CONNEC TORS



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