


75009710	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT D6 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the combination

Article number of the combination	75009710
Housing	SIGNAL M23 D6 (44420037)
Insert	12 Pin (E-Part) with solder termination (73002722)

## General characteristics

Series	SIGNAL M23
Type	D6, Cable connector
Version	Female
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (E-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Clamping range	7,0 mm - 13,5 mm
Degree of protection	IP 68 (10 h / 1 m) (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C


## Materials and surfaces

Housing, base material	Zinc die-cast
Housing, surface	Nickel
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT D6 12 PINS SOLDER TERMINATION</b>	

### Approvals

VDE-Approval, VDE-REG.-Nr.  
UL File Number

C024  
E249137



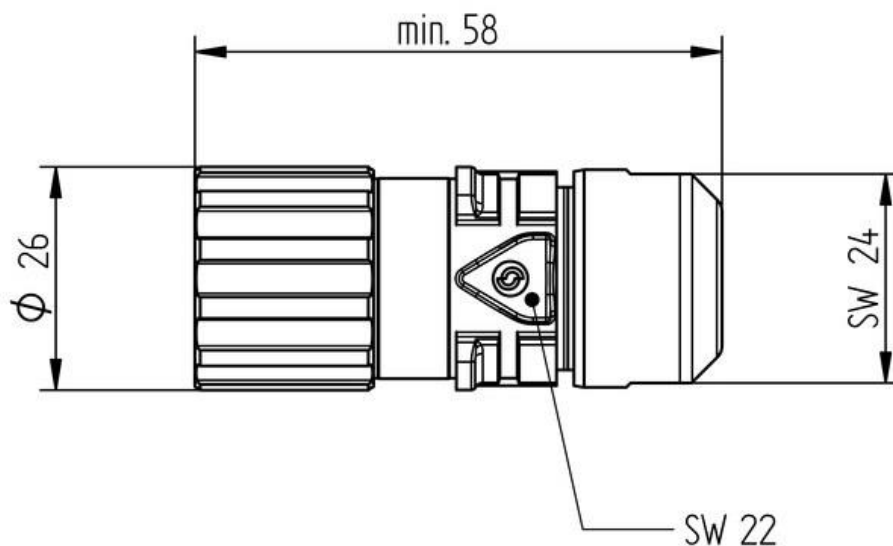
### Standards

Safety Standard

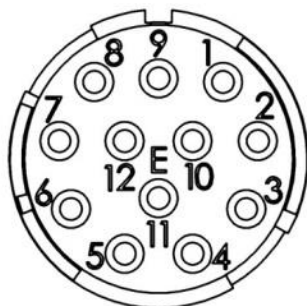
IEC 61984; UL 1977

### Technical Drawings


Housing



Insert

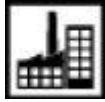


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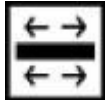
75009710	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT D6 12 PINS SOLDER TERMINATION</b>	



Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP® cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland


### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

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75009702	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT D6 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the combination

Article number of the combination	75009702
Housing	SIGNAL M23 D6 (44420037)
Insert	12 Pin (P-Part) with solder termination (73002716)

## General characteristics

Series	SIGNAL M23
Type	D6, Cable connector
Version	Female
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (P-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Clamping range	7,0 mm – 13,5 mm
Degree of protection	IP 68 (10 h / 1 m) (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C


## Materials and surfaces

Housing, base material	Zinc die-cast
Housing, surface	Nickel
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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75009702	<b>DATA SHEET</b>	
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### Approvals

VDE-Approval, VDE-REG.-Nr.  
UL File Number

C024  
E249137



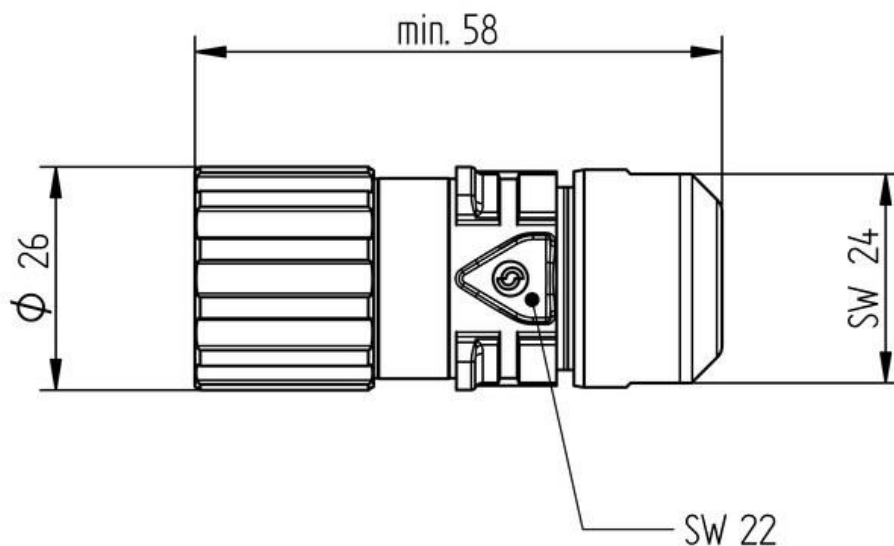
### Standards

Safety Standard

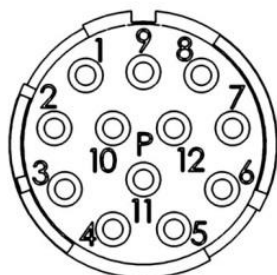
IEC 61984; UL 1977

### Technical Drawings


Housing



Insert

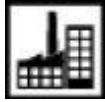


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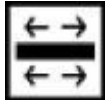
75009702	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT D6 12 PINS SOLDER TERMINATION</b>	



Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP<sup>®</sup> cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland


### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

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75009703	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT A1 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the combination

Article number of the combination	75009703
Housing	SIGNAL M23 A1 (72004000)
Insert	12 Pin (E-Part) with solder termination (73002720)

## General characteristics

Series	SIGNAL M23
Type	A1, Panel mounted
Version	Male
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (E-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Mounting type	Panel mount; through hole for: 4x M 2,5
Degree of protection	IP 68 (10 h / 1 m) (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C


## Materials and surfaces

Housing, base material	Zinc die-cast
Housing, surface	Nickel
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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75009703	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT A1 12 PINS SOLDER TERMINATION</b>	

### Approvals

VDE-Approval, VDE-REG.-Nr.  
UL File Number

C024  
E249137



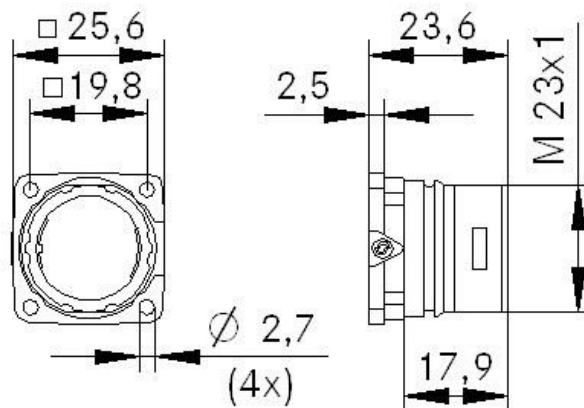
### Standards

Safety Standard

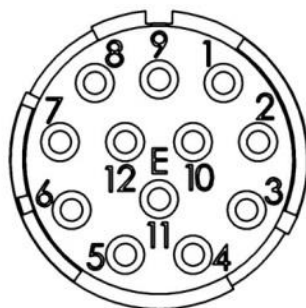
IEC 61984; UL 1977

### Technical Drawings

Housing



Insert



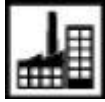
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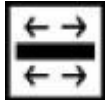
75009703	<b>DATA SHEET</b>	
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Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP® cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland


### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

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75009711	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT A1 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the combination

Article number of the combination	75009711
Housing	SIGNAL M23 A1 (72004000)
Insert	12 Pin (P-Part) with solder termination (73002714)

## General characteristics

Series	SIGNAL M23
Type	A1, Panel mounted
Version	Male
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (P-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Mounting type	Panel mount; through hole for: 4x M 2,5
Degree of protection	IP 68 (10 h / 1 m) (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C


## Materials and surfaces

Housing, base material	Zinc die-cast
Housing, surface	Nickel
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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75009711	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT A1 12 PINS SOLDER TERMINATION</b>	

### Approvals

VDE-Approval, VDE-REG.-Nr.  
UL File Number

C024  
E249137



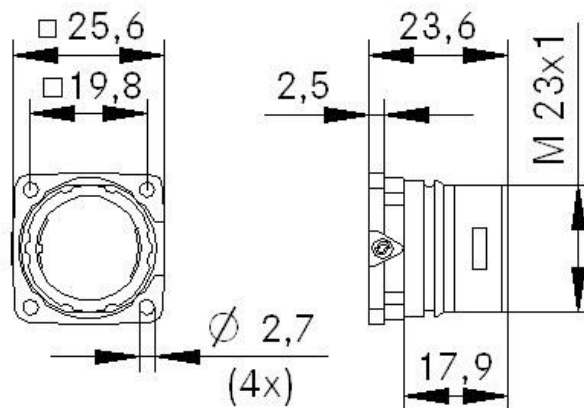
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Safety Standard

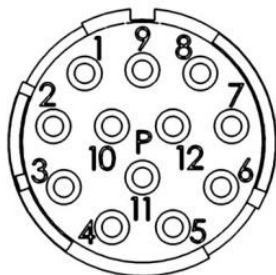
IEC 61984; UL 1977

### Technical Drawings


Housing



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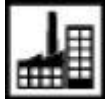


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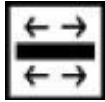
75009711	<b>DATA SHEET</b>	
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Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP® cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland


### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

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25009704	<b>DATA SHEET</b>	
Valid from: 28.03.2019	<b>EPIC<sup>®</sup> SIGNAL M23 KIT A3 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the combination

Article number of the combination	25009704
Housing	SIGNAL M23 A3 (24420055)
Insert	12 Pin (E-Part) with solder termination (73002720)

## General characteristics

Series	SIGNAL M23
Type	A3, angled panel mounted
Version	Male
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (E-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Mounting type	Panel mount; through hole for: 4x M 2,5
Degree of protection	IP 65 (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C


## Materials and surfaces

Housing, base material	Zinc die-cast
Housing, surface	Blue chromated (CrVI free)
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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25009704	<b>DATA SHEET</b>	
Valid from: 28.03.2019	<b>EPIC<sup>®</sup> SIGNAL M23 KIT A3 12 PINS SOLDER TERMINATION</b>	

### Approvals

UL File Number

E249137



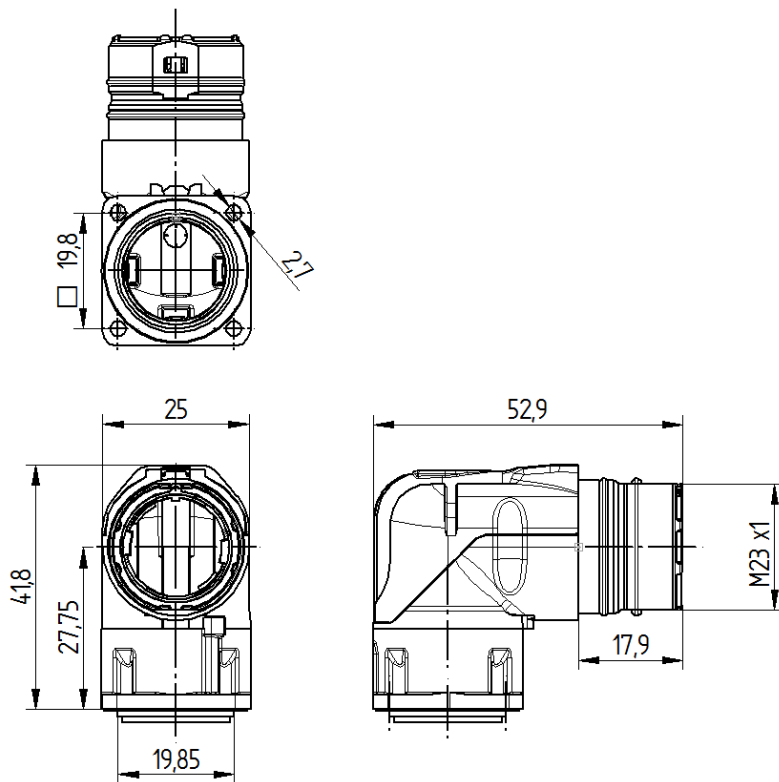
### Standards

Safety Standard

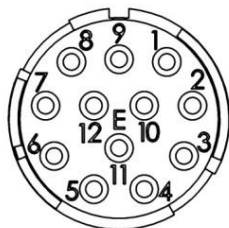
IEC 61984; UL 1977; UL 2238; CSA 22.2 182.3

### Technical Drawings

Housing




Insert



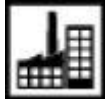
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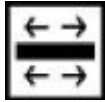
25009704	<b>DATA SHEET</b>	
Valid from: 28.03.2019	<b>EPIC® SIGNAL M23 KIT A3 12 PINS SOLDER TERMINATION</b>	



Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP® cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland


### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

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75009705	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT F6 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the Combination

Article number of the combination	75009705
Housing	SIGNAL M23 F6 (44420040)
Insert	12 (E-Part) Pin with solder termination (73002720)

## General characteristics

Series	SIGNAL M23
Type	F6, Coupling connector
Version	Male
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (E-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Clamping range	7,0 mm – 13,5 mm
Degree of protection	IP 68 (10 h / 1 m) (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C

## Materials and surfaces


Housing, base material	Zinc die-cast
Housing, surface	Nickel
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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75009705	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT F6 12 PINS SOLDER TERMINATION</b>	

### Approvals

VDE-Approval, VDE-REG.-Nr.  
UL File Number

C024  
E249137



### Standards

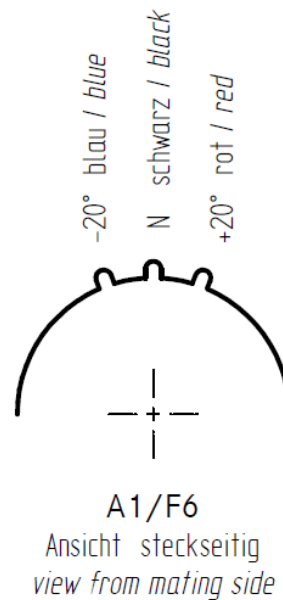
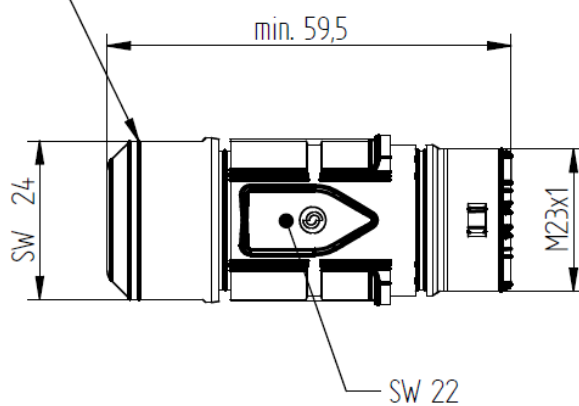
Safety Standard

IEC 61984; UL 1977

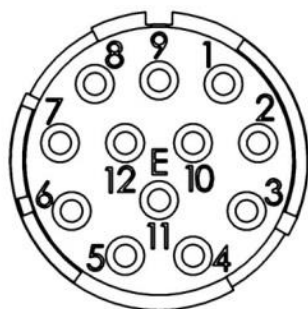
### Technical Drawings

Housing


Anzugsdrehmoment: 7,5 Nm  
tightening torque: 7,5 Nm



Insert

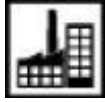


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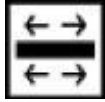
75009705	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT F6 12 PINS SOLDER TERMINATION</b>	



Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP® cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland

### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

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75009713	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT F6 12 PINS SOLDER TERMINATION</b>	

## Description

- Circular connector for servo cables and encoders
- Low-resistance screen contact
- Optimum EMC protection
- Use of high quality materials for increased reliability
- Complete connector with housing and insulation body, equipped with suitable solder contacts



## Components of the Combination

Article number of the combination	75009713
Housing	SIGNAL M23 F6 (44420040)
Insert	12 (P-Part) Pin with solder termination (73002714)

## General characteristics

Series	SIGNAL M23
Type	F6, Coupling connector
Version	Male
Connection type	Solder termination
Coding	Black (N)
Pin-arrangement	12 (P-Part)
Contact diameter	1 mm
Termination cross section	Up to 1 mm <sup>2</sup>
Clamping range	7,0 mm – 13,5 mm
Degree of protection	IP 68 (10 h / 1 m) (latched)
Cycles of mechanical operation	100
Temperature range	-25 °C to +125 °C


## Materials and surfaces

Housing, base material	Zinc die-cast
Housing, surface	Nickel
Sealing	FPM/FKM
Insert	PA
Contact, base material	Brass
Contact, surface	Gold

## Electrical characteristics

Rated voltage	100 V
Rated impulse voltage	1,5 kV
Rated current	7 A
Contact resistance	< 4 mOhm
Verschmutzungsgrad	3

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75009713	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC<sup>®</sup> SIGNAL M23 KIT F6 12 PINS SOLDER TERMINATION</b>	

### Approvals

VDE-Approval, VDE-REG.-Nr.  
UL File Number

C24  
E249137



### Standards

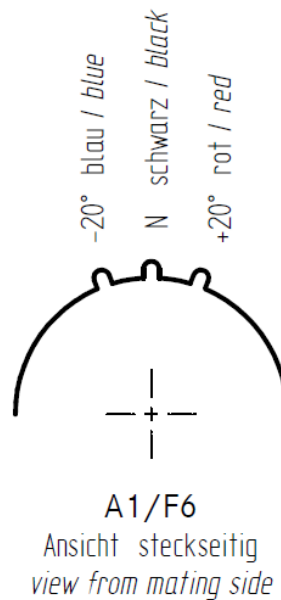
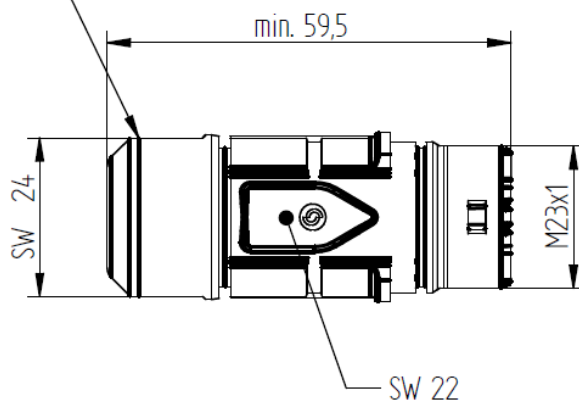
Safety Standard

IEC 61984

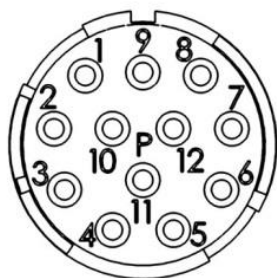
### Technical Drawings

Housing

Anzugsdrehmoment: 7,5 Nm  
tightening torque: 7,5 Nm




Insert



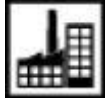
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PD 0019/05\_04.18EN

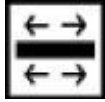
75009713	<b>DATA SHEET</b>	
Valid from: 11.05.2018	<b>EPIC® SIGNAL M23 KIT F6 12 PINS SOLDER TERMINATION</b>	



Good chemical resistance



Industrial machinery and plant engineering



Optimum strain relief



Mechanical resistance



Assembly time



Robust



Integrated SKINTOP® cable gland



Wind energy



Variety of approval certifications

### Info

Robust metal connector with integrated EMC cable gland

### Application range

Plant engineering  
 Servo drives and Servo assemblies  
 Measurement and control technology  
 Apparatus construction

### Remark

Photographs are not to scale and do not represent detailed images of the respective products.

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