

MENGELKING



M12 Series

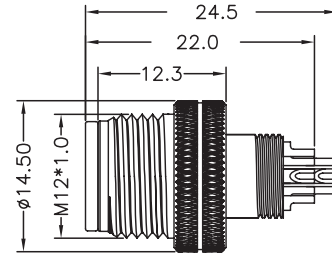
**Connectors for
Overmoulding**

Male connector for over-molding

Product figure



Scale diagram



Contact layout (Front view)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



5pins

B



4pins

D



Order Data

Contacts	Coding	Order No
2pins	A	M12A02/MB2/BN/SC
3pins	A	M12A03/MB2/BN/SC
4pins	A	M12A04/MB2/BN/SC
	D	M12D04/MB2/BN/SC
5pins	A	M12A05/MB2/BN/SC
	B	M12B05/MB2/BN/SC
8pins	A	M12A08/MB2/BN/SC
12pins	A	M12A12/MB2/BN/SC

Specifications

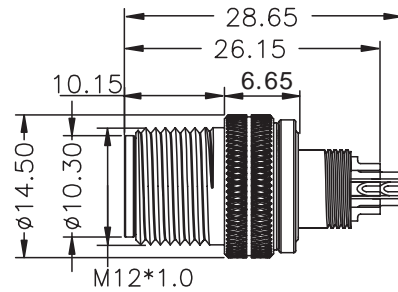
Number of contacts	3	4	5	8	12
Termination	solder				
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)				
Operating temperature	-25°C ~ +85°C				
Mechanical operation	> 100 mating cycles				
Rated voltage	250V		60V	30V	
Rated current (40°C)	4A			2A	1.5A
Protection degree	IP67/IP68				
Contact resistance	< 10mΩ				
Insulation resistance	≥ 100MΩ				
Pin contact	CuZn				
Socket contact	CuSn				
Contact plating	Au				

Male connector for over-molding

Product figure



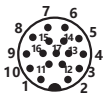
Scale diagram



Contact layout (Front view)

17pins

A

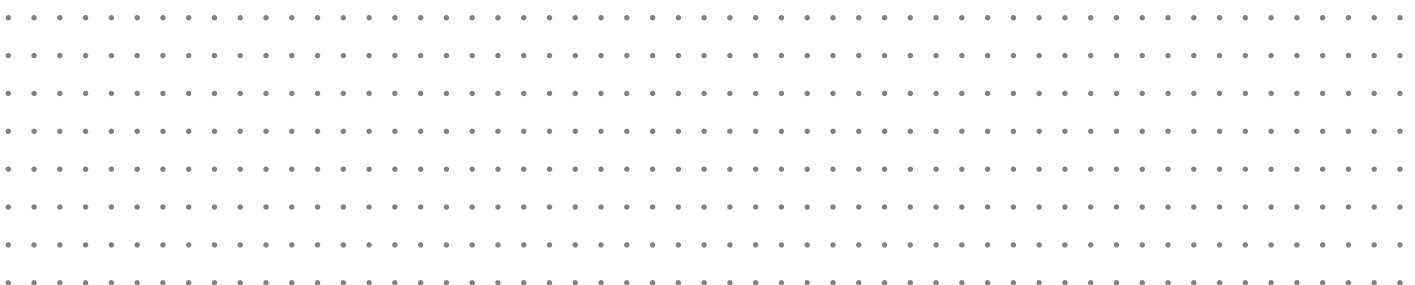


Order Data

Contacts	Coding	Order No
17pins	A	M12A17/MB2/BN/SC

Specifications

Number of contacts	17
Termination	solder
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)
Operating temperature	-25°C ~ +85°C
Mechanical operation	> 100 mating cycles
Rated voltage	30V
Rated current (40°C)	1.5A
Protection degree	IP67/IP68
Contact resistance	< 10mΩ
Insulation resistance	≥ 100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

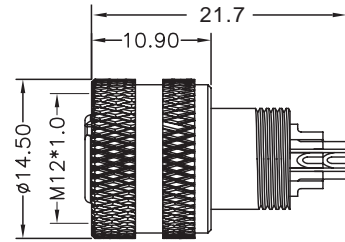


Female connector for over-molding

Product figure



Scale diagram



Contact layout (Front view)

3pins

4pins

5pins

8pins

12pins

5pins

4pins

A

A

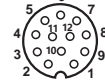
A

A

A

B

D



Order Data

Contacts	Coding	Order No
2pins	A	M12A02/FB2/BN/SC
3pins	A	M12A03/FB2/BN/SC
4pins	A	M12A04/FB2/BN/SC
	D	M12D04/FB2/BN/SC
5pins	A	M12A05/FB2/BN/SC
	B	M12B05/FB2/BN/SC
8pins	A	M12A08/FB2/BN/SC
12pins	A	M12A12/FB2/BN/SC

Specifications

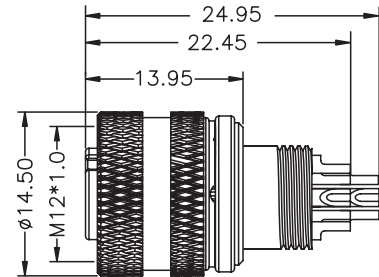
Number of contacts	3	4	5	8	12
Termination	solder				
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)				
Operating temperature	-25°C ~ +85°C				
Mechanical operation	> 100 mating cycles				
Rated voltage	250V		60V	30V	
Rated current (40°C)	4A			2A	1.5A
Protection degree	IP67/IP68				
Contact resistance	< 10mΩ				
Insulation resistance	≥ 100MΩ				
Pin contact	CuZn				
Socket contact	CuSn				
Contact plating	Au				

Female connector for over-molding

Product figure



Scale diagram



Contact layout (Front view)

17pins

A

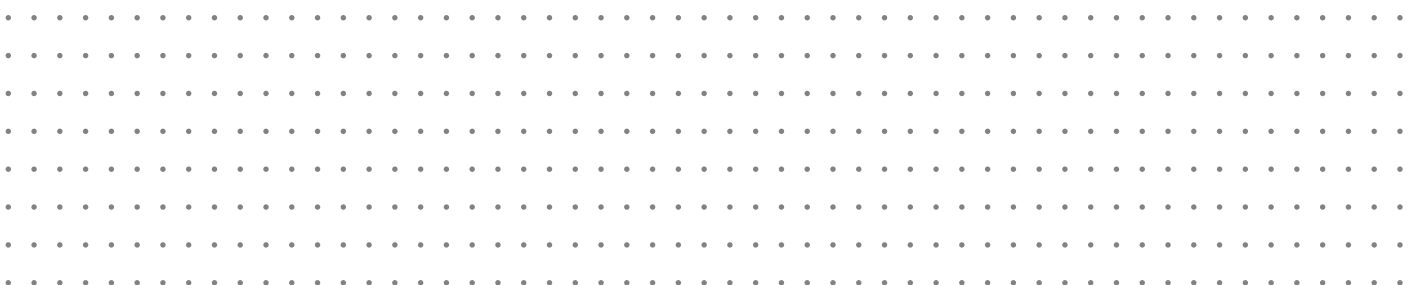


Order Data

Contacts	Coding	Order No
17pins	A	M12A17/FB2/BN/SC

Specifications

Number of contacts	17
Termination	solder
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)
Operating temperature	-25°C ~ +85°C
Mechanical operation	> 100 mating cycles
Rated voltage	30V
Rated current (40°C)	1.5A
Protection degree	IP67/IP68
Contact resistance	< 10mΩ
Insulation resistance	≥ 100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

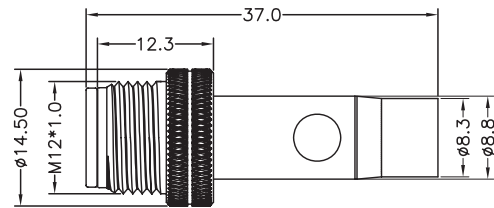


Male connector for over-molding

Product figure (with shield)



Scale diagram



Contact layout (Front view)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



5pins

B



4pins

D



Order Data

Contacts	Coding	Order No
2pins	A	M12A02/MB3/BN/SC
3pins	A	M12A03/MB3/BN/SC
4pins	A	M12A04/MB3/BN/SC
	D	M12D04/MB3/BN/SC
5pins	A	M12A05/MB3/BN/SC
	B	M12B05/MB3/BN/SC
8pins	A	M12A08/MB3/BN/SC
12pins	A	M12A12/MB3/BN/SC

Specifications

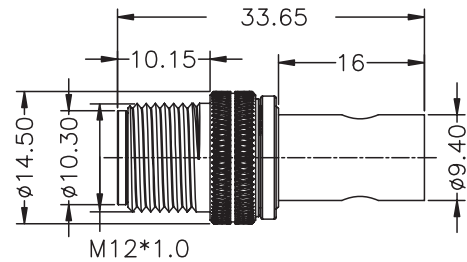
Number of contacts	3	4	5	8	12
Termination	solder				
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)				
Operating temperature	-25°C ~ +85°C				
Mechanical operation	> 100 mating cycles				
Rated voltage	250V		60V	30V	
Rated current (40°C)	4A			2A	1.5A
Protection degree	IP67/IP68				
Contact resistance	< 10mΩ				
Insulation resistance	≥ 100MΩ				
Pin contact	CuZn				
Socket contact	CuSn				
Contact plating	Au				

Male connector for over-molding

Product figure (with shield)



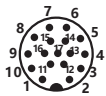
Scale diagram



Contact layout (Front view)

17pins

A

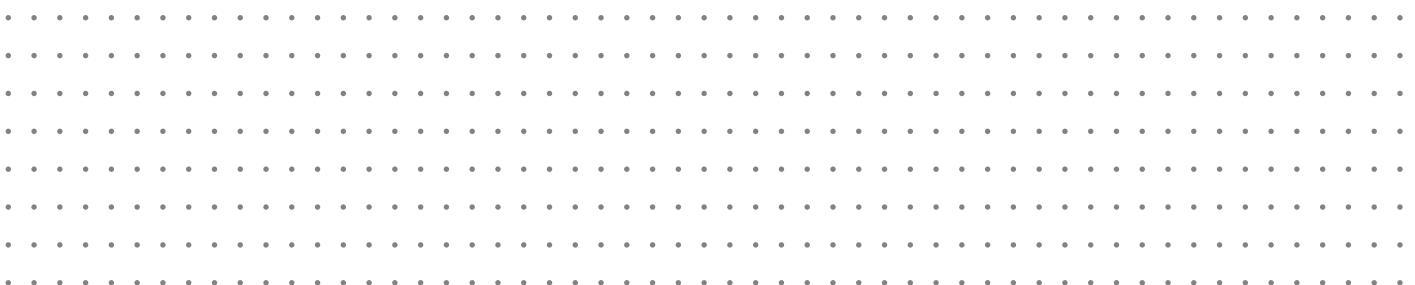


Order Data

Contacts	Coding	Order No
17pins	A	M12A17/MB3/BN/SC

Specifications

Number of contacts	17
Termination	solder
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)
Operating temperature	-25°C ~ +85°C
Mechanical operation	> 100 mating cycles
Rated voltage	30V
Rated current (40°C)	1.5A
Protection degree	IP67/IP68
Contact resistance	< 10mΩ
Insulation resistance	≥ 100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

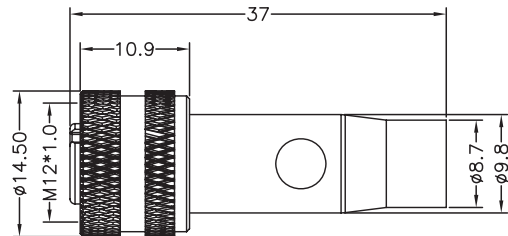


Female connector for over-molding

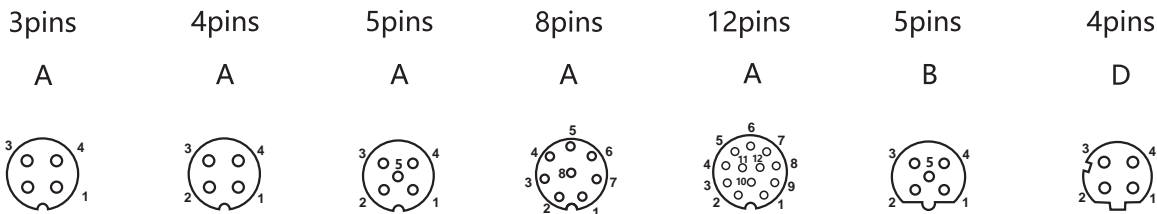
Product figure (with shield)



Scale diagram



Contact layout (Front view)



Order Data

Contacts	Coding	Order No
2pins	A	M12A02/FB3/BN/SC
3pins	A	M12A03/FB3/BN/SC
4pins	A	M12A04/FB3/BN/SC
	D	M12D04/FB3/BN/SC
5pins	A	M12A05/FB3/BN/SC
	B	M12B05/FB3/BN/SC
8pins	A	M12A08/FB3/BN/SC
12pins	A	M12A12/FB3/BN/SC

Specifications

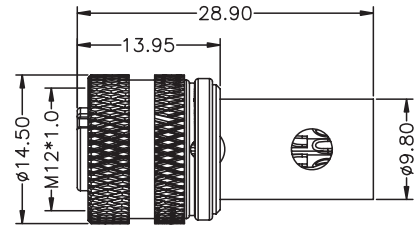
Number of contacts	3	4	5	8	12
Termination	solder				
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)				
Operating temperature	-25°C ~ +85°C				
Mechanical operation	> 100 mating cycles				
Rated voltage	250V		60V	30V	
Rated current (40°C)	4A			2A	1.5A
Protection degree	IP67/IP68				
Contact resistance	< 10mΩ				
Insulation resistance	≥ 100MΩ				
Pin contact	CuZn				
Socket contact	CuSn				
Contact plating	Au				

Female connector for over-molding

Product figure (with shield)



Scale diagram



Contact layout (Front view)

17pins

A

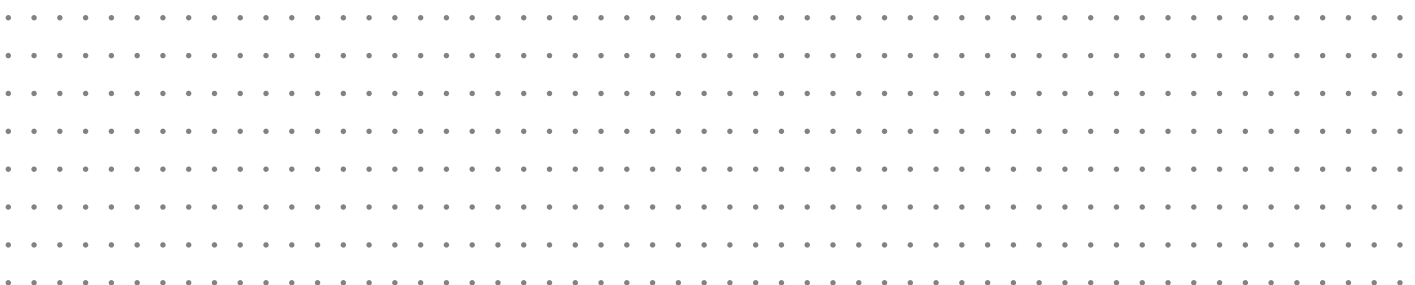


Order Data

Contacts	Coding	Order No
17pins	A	M12A17/FB3/BN/SC

Specifications

Number of contacts	17
Termination	solder
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)
Operating temperature	-25°C ~ +85°C
Mechanical operation	> 100 mating cycles
Rated voltage	30V
Rated current (40°C)	1.5A
Protection degree	IP67/IP68
Contact resistance	< 10mΩ
Insulation resistance	≥ 100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

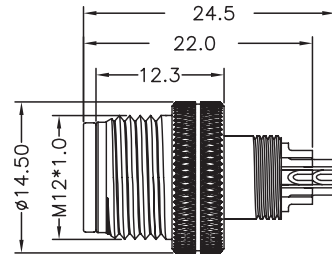


Male connector for over-molding

Product figure



Scale diagram



Contact layout (Front view)

3pins

4pins

5pins

6pins

C

C

C

C

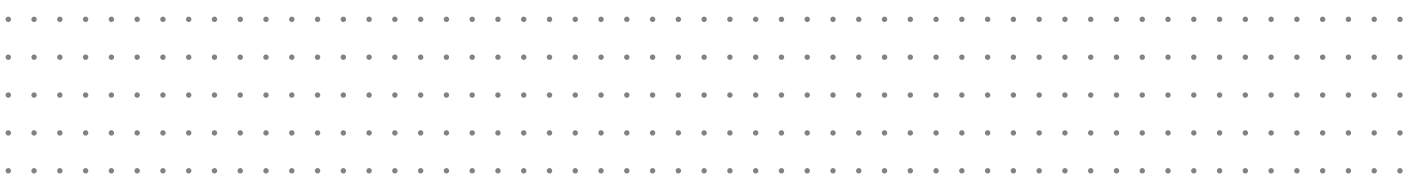


Order Data

Contacts	Coding	Order No
3pins	C	M12C03/MB2/BN/SC
4pins	C	M12C04/MB2/BN/SC
5pins	C	M12C05/MB2/BN/SC
6pins	C	M12C06/MB2/BN/SC

Specifications

Number of contacts	3	4	5	6
Termination	solder			
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)			
Operating temperature	-25°C ~ +85°C			
Mechanical operation	> 100 mating cycles			
Rated voltage	250V		60V	30V
Rated current (40°C)	4A		2A	
Protection degree	IP67			
Contact resistance	< 10mΩ			
Insulation resistance	≥ 100MΩ			
Pin contact	CuZn			
Socket contact	CuSn			
Contact plating	Au			

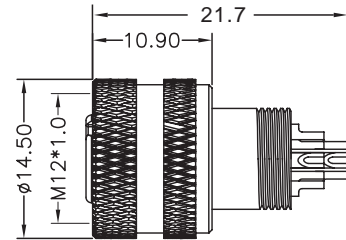


Female connector for over-molding

Product figure



Scale diagram



Contact layout (Front view)

3pins

4pins

5pins

6pins

C

C

C

C

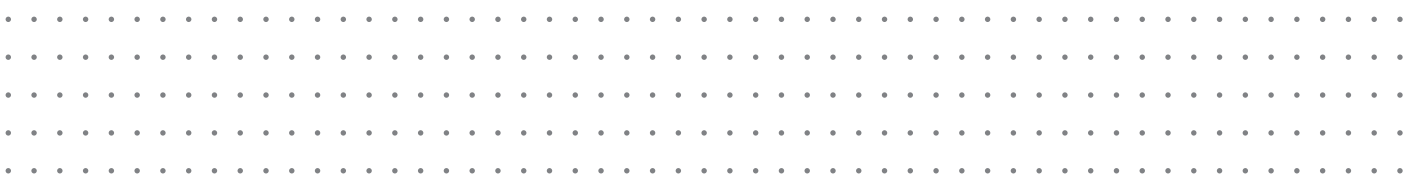


Order Data

Contacts	Coding	Order No
3pins	C	M12C03/FB2/BN/SC
4pins	C	M12C04/FB2/BN/SC
5pins	C	M12C05/FB2/BN/SC
6pins	C	M12C06/FB2/BN/SC

Specifications

Number of contacts	3	4	5	6
Termination	solder			
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)			
Operating temperature	-25°C ~ +85°C			
Mechanical operation	> 100 mating cycles			
Rated voltage	250V		60V	30V
Rated current (40°C)	4A		2A	
Protection degree	IP67			
Contact resistance	< 10mΩ			
Insulation resistance	≥ 100MΩ			
Pin contact	CuZn			
Socket contact	CuSn			
Contact plating	Au			

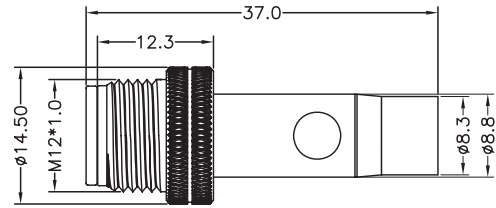


Male connector for over-molding

Product figure (with shield)



Scale diagram



Contact layout (Front view)

3pins

4pins

5pins

6pins

C

C

C

C

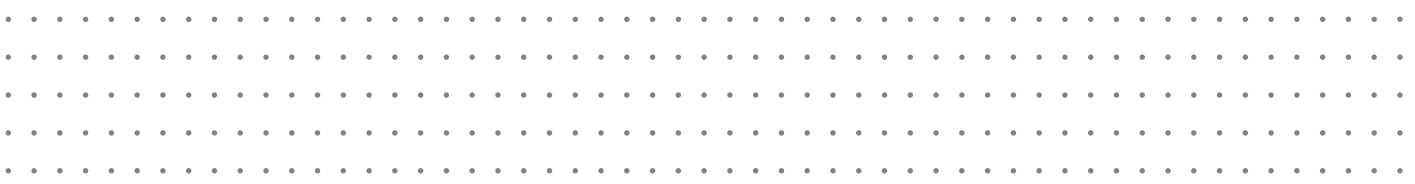


Order Data

Contacts	Coding	Order No
3pins	C	M12C03/MB3/BN/SC
4pins	C	M12C04/MB3/BN/SC
5pins	C	M12C05/MB3/BN/SC
6pins	C	M12C06/MB3/BN/SC

Specifications

Number of contacts	3	4	5	6
Termination	solder			
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)			
Operating temperature	-25°C ~ +85°C			
Mechanical operation	> 100 mating cycles			
Rated voltage	250V		60V	30V
Rated current (40°C)	4A		2A	
Protection degree	IP67			
Contact resistance	< 10mΩ			
Insulation resistance	≥ 100MΩ			
Pin contact	CuZn			
Socket contact	CuSn			
Contact plating	Au			

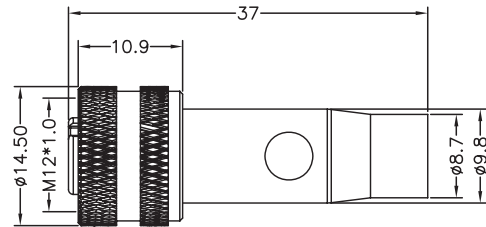


Female connector for over-molding

Product figure (with shield)



Scale diagram



Contact layout (Front view)

3pins

4pins

5pins

6pins

C

C

C

C

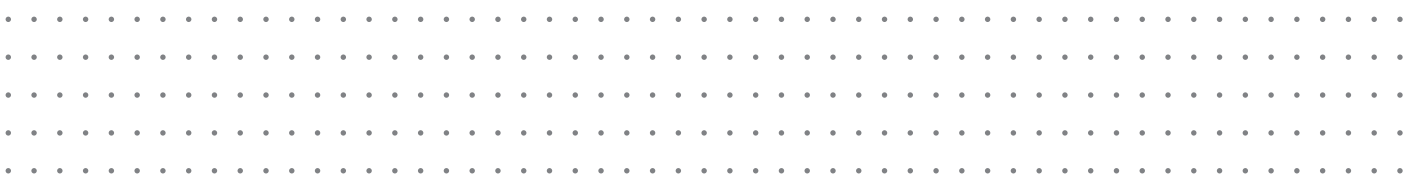


Order Data

Contacts	Coding	Order No
3pins	C	M12C03/FB3/BN/SC
4pins	C	M12C04/FB3/BN/SC
5pins	C	M12C05/FB3/BN/SC
6pins	C	M12C06/FB3/BN/SC

Specifications

Number of contactS	3	4	5	6
Termination	solder			
Wire gauge	0.14/0.25/0.34/0.5mm ² / (26/24/22/20 AWG)			
Operating temperature	-25°C ~ +85°C			
Mechanical operation	> 100 mating cycles			
Rated voltage	250V		60V	30V
Rated current (40°C)	4A		2A	
Protection degree	IP67			
Contact resistance	< 10mΩ			
Insulation resistance	≥ 100MΩ			
Pin contact	CuZn			
Socket contact	CuSn			
Contact plating	Au			

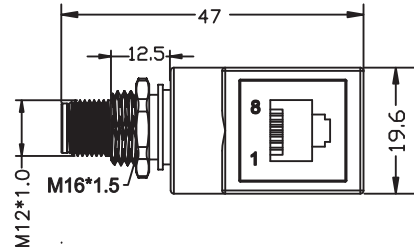


M12 Male to RJ45 Adapter (90°)

Product figure



Scale diagram



Contact layout (Front view)

8pins

4pins

RJ45

A

D

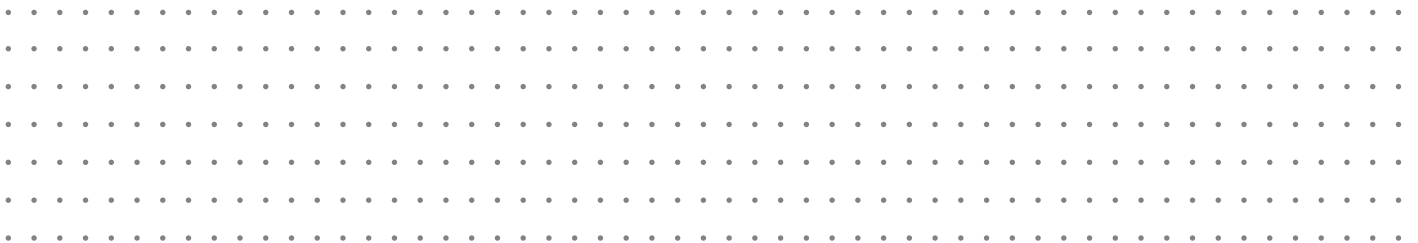


Order Data

Contacts	Coding	Order No
4pins	D	M12D04/MX1/BN/R1
8pins	A	M12A08/MX1/BN/R1

Specifications

Number of contacts	4	8
Termination	—	
Wire gauge	—	
Operating temperature	-25°C ~ +85°C	
Mechanical operation	> 100 mating cycles	
Rated voltage	250V	30V
Rated current (40°C)	4A	2A
Protection degree	IP67	
Contact resistance	< 10mΩ	
Insulation resistance	≥ 100MΩ	
Pin contact	CuZn	
Socket contact	CuSn	
Contact plating	Au	

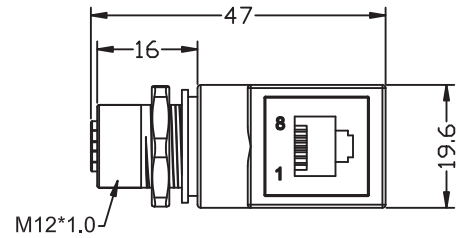


M12 Female to RJ45 Adapter (90°)

Product figure



Scale diagram



Contact layout (Front view)

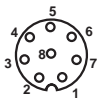
8pins

4pins

RJ45

A

D

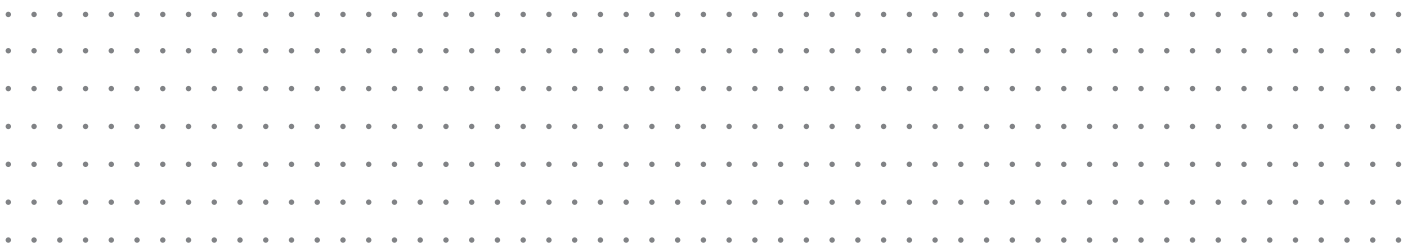


Order Data

Contacts	Coding	Order No
4pins	D	M12D04/FX1/BN/R1
8pins	A	M12A08/FX1/BN/R1

Specifications

Number of contacts	4	8
Termination	—	
Wire gauge	—	
Operating temperature	-25°C ~ +85°C	
Mechanical operation	> 100 mating cycles	
Rated voltage	250V	30V
Rated current (40°C)	4A	2A
Protection degree	IP67	
Contact resistance	< 10mΩ	
Insulation resistance	≥100MΩ	
Pin contact	CuZn	
Socket contact	CuSn	
Contact plating	Au	

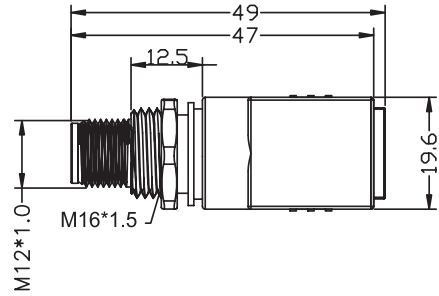


M12 Male to RJ45 Adapter (180°)

Product figure



Scale diagram



Contact layout (Front view)

8pins

4pins

RJ45

A

D

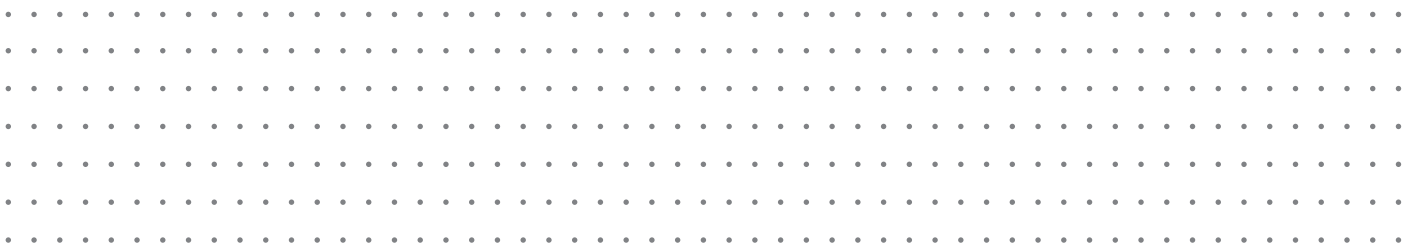


Order Data

Contacts	Coding	Order No
4pins	D	M12D04/MX1/BN/R2
8pins	A	M12A08/MX1/BN/R2

Specifications

Number of contacts	4	8
Termination	—	
Wire gauge	—	
Operating temperature	-25°C ~ +85°C	
Mechanical operation	> 100 mating cycles	
Rated voltage	250V	30V
Rated current (40°C)	4A	2A
Protection degree	IP67	
Contact resistance	< 10mΩ	
Insulation resistance	≥ 100MΩ	
Pin contact	CuZn	
Socket contact	CuSn	
Contact plating	Au	

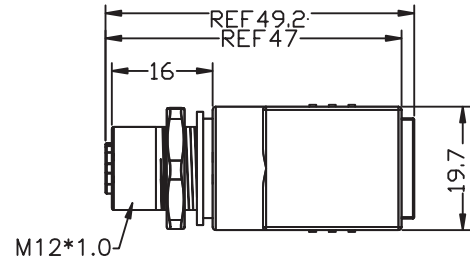


M12 Female to RJ45 Adapter (180°)

Product figure



Scale diagram



Contact layout (Front view)

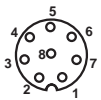
8pins

4pins

RJ45

A

D

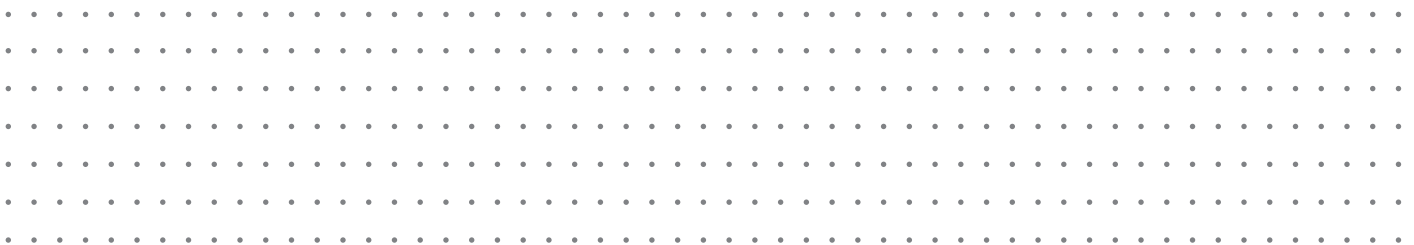


Order Data

Contacts	Coding	Order No
4pins	D	M12D04/FX1/BN/R2
8pins	A	M12A08/FX1/BN/R2

Specifications

Number of contacts	4	8
Termination	—	
Wire gauge	—	
Operating temperature	-25°C ~ +85°C	
Mechanical operation	> 100 mating cycles	
Rated voltage	250V	30V
Rated current (40°C)	4A	2A
Protection degree	IP67	
Contact resistance	< 10mΩ	
Insulation resistance	≥ 100MΩ	
Pin contact	CuZn	
Socket contact	CuSn	
Contact plating	Au	

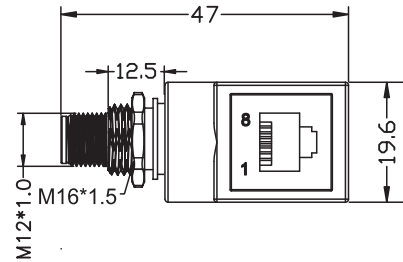


M12 Male to RJ45 Adapter (90°)

Product figure



Scale diagram



Contact layout (Front view)

8pins

RJ45

X

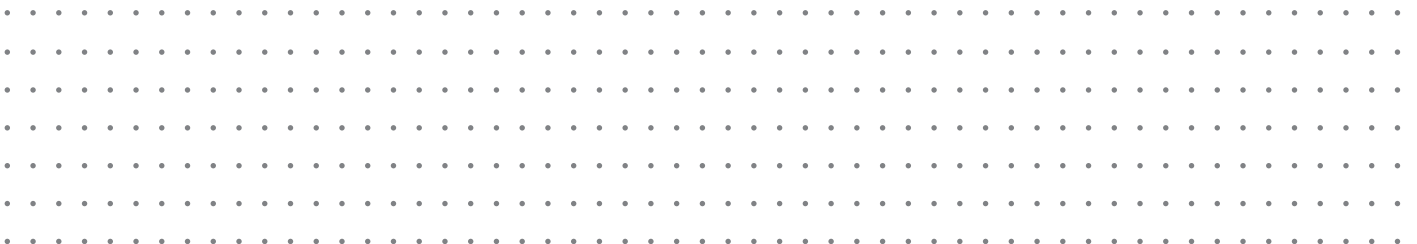


Order Data

Contacts	Coding	Order No
8pins	X	M12X08/MX1/BN/R1

Specifications

Number of contacts	8
Termination	—
Wire gauge	—
Operating temperature	-40°C~+85°C
Mechanical operation	> 100 mating cycles
Rated voltage	50V AC / 60V DC
Rated current (40°C)	0.5A
Protection degree	IP67/IP68
Contact resistance	≤5mΩ
Insulation resistance	≥100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

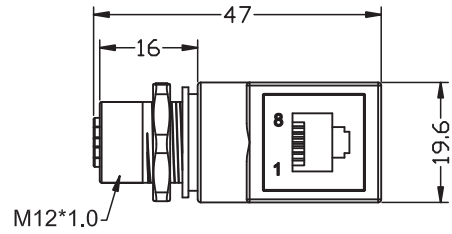


M12 Female to RJ45 Adapter (90°)

Product figure



Scale diagram



Contact layout (Front view)

8pins

RJ45

X

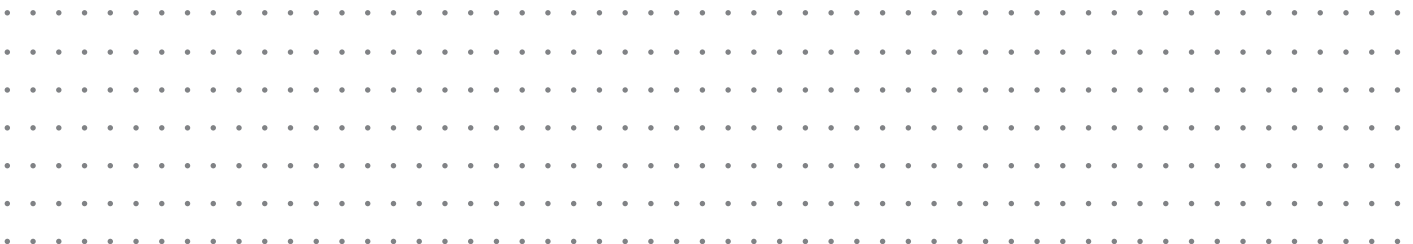


Order Data

Contacts	Coding	Order No
8pins	X	M12X08/FX1/BN/R1

Specifications

Number of contacts	8
Termination	—
Wire gauge	—
Operating temperature	-40°C~+85°C
Mechanical operation	> 100 mating cycles
Rated voltage	50V AC / 60V DC
Rated current (40°C)	0.5A
Protection degree	IP67/IP68
Contact resistance	≤5mΩ
Insulation resistance	≥100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

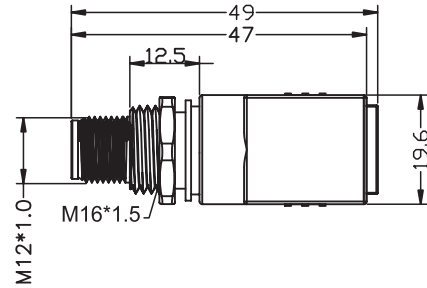


M12 Male to RJ45 Adapter (180°)

Product figure



Scale diagram



Contact layout (Front view)

8pins

RJ45

X

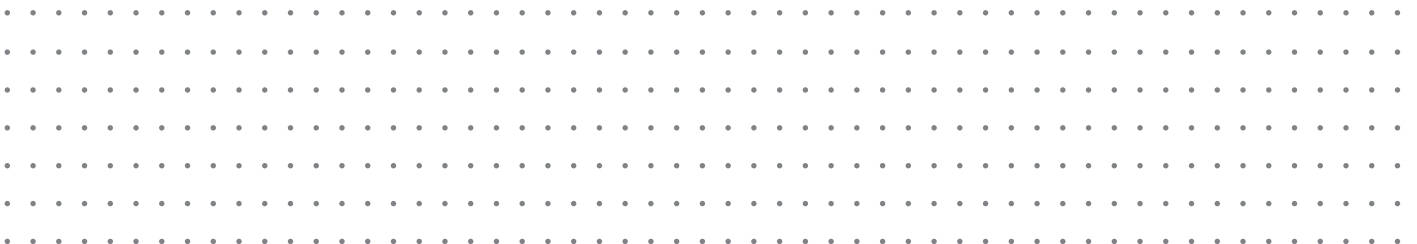


Order Data

Contacts	Coding	Order No
8pins	X	M12X08/MX1/BN/R2

Specifications

Number of contacts	8
Termination	—
Wire gauge	—
Operating temperature	-40°C~+85°C
Mechanical operation	> 100 mating cycles
Rated voltage	50V AC / 60V DC
Rated current (40°C)	0.5A
Protection degree	IP67/IP68
Contact resistance	≤5mΩ
Insulation resistance	≥100MΩ
Pin contact	CuZn
Socket contact	CuSn
Contact plating	Au

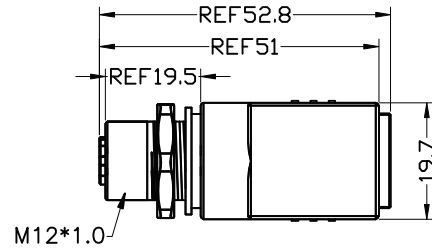


M12 Female to RJ45 Adapter (180°)

Product figure



Scale diagram



Contact layout (Front view)

8pins

RJ45

X

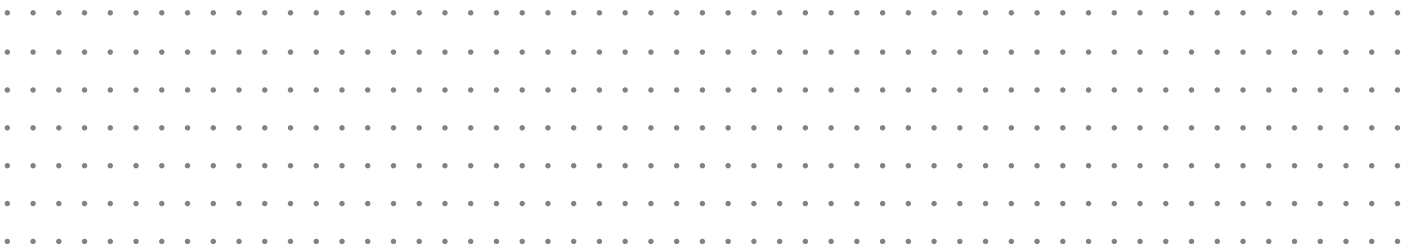


Order Data

Contacts	Coding	Order No
8pins	X	M12X08/FX1/BN/R2

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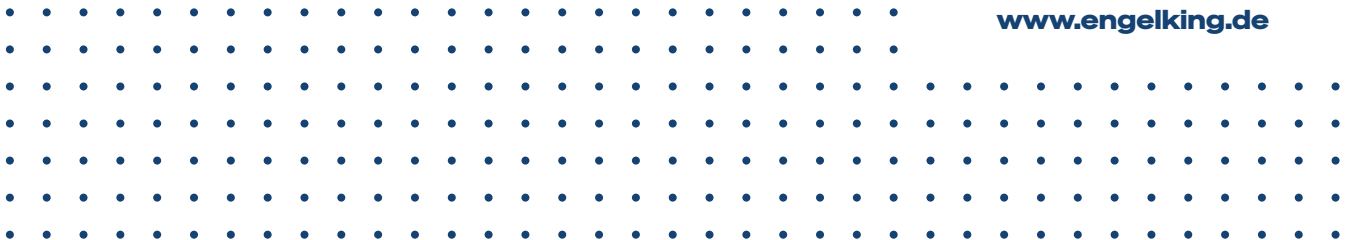




Engelking Elektronik GmbH

Albstraße 16
D-78609 Tuningen

Tel.: +49 (0)7464 9865 0
Fax: +49 (0)7464 9865 71
E-Mail: info@engelking.de



www.engelking.de