

M12 female 0° A-cod. with cable shielded

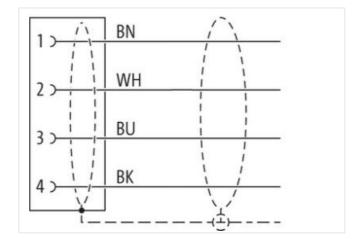
PVC 4x0.34 shielded bk UL/CSA 55m

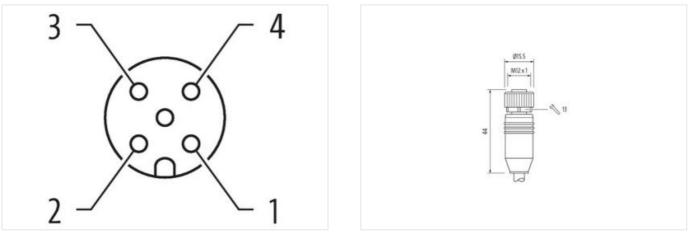
Female straight M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-26

55 m

0,6 Nm

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879897259
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Dperating voltage DC max.	60 V
Deperating voltage AC (UL-listed)	30 V
Dperating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
•	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data Mounting data	
Nounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
•	Brotost the connectors by quitable measures from mechanical leads a sub- when were of ashield as
Note on strain relief Note on bending radius	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
-	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	

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Sakie Identification 179 saket Color green ype of Certificate cURus wnourt stranding 2 stranding (type 2) 1 Stranding (type 2) 2 Stranding (type 2) 3 Stranding (type 2) 4 Stranding (type 2) 3 Stranding (type 2) 4 Stranding (type 2) 5 Stranding (type 2) 5 Stranding (type 2) <th>wire arrangement</th> <th>brown, white, red, blue, pink, gray, yellow, green</th>	wire arrangement	brown, white, red, blue, pink, gray, yellow, green
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Banding Fleece iller yes vier arrangement brown, white, red, blue, pink, gray, yellow, green Sable weigh 60,5 g/m Material jacket PVC Shore hardness jacket 92 2 3 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free Duter diameter (jacket) 6,1 mm Folderaria 0.5 k/% Material wire insulation PP Vmount wires 4 Duter diameter insulation 1,1 mm Duter diameter tolerance core insulation 5 % Shore hardness wire insulation 55 ± 5 Shore D Ingredient free-ress wire insulation 55 ± 5 Shore D Ingredient free-ress wire insulation 55 ± 5 Shore D Ingredient free-ress wire insulation 54 4/WG Conductor crossection (wire) 7 Diameter of single wires 24 AWG Conductor wire copper stranded wire, finned Alerial conductor wire copper stranded wire, finned Alerial conductor wire copper stranded wire, finned Alerial conductor wire 0.5 k/W @ 00 ° Carvet toad capacity (stin dradrad) to DIN VDE 0299.4 Duranet toad capacity (stin dradrad) 0.5 k/W @ 00 s Electrical resistance 100.0 <td>Amount stranding (type 2)</td> <td>1</td>	Amount stranding (type 2)	1
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Sable weigh 60,5 g/m Material jacket PVC Shore hardness jacket 92 ± 3 Shore A readom from ingredients (jacket) Isad-free, cadmium-free, CFC-free Duter diameter (jacket) 6,1 mm Folderance outer diameter (shealth) ± 5 % Material wise insulation PP Vinount wires 4 Duter diameter insulation 1,1 mm Duter diameter insulation 1,1 mm Duter diameter insulation 5 ± 5 Shore D Ingredient fereness wire insulation 56 ± 5 Shore D Shore hardness wire insulation 16 ± 7 % Jourer diameter insulation 54 ± 5 % Opper stranded wire, UFC-free, halogen-free, silicone-free Amount strands (wire) 7 Diameter of single wires 24 AWG Orductor crossection (wire) 24 AWG Conductor or cossection (wire) 24 AWG Durrent load capacity (standard) to DIN VDE 028-4 Durent load capacity (standard) </td <td>Filler</td> <td>yes</td>	Filler	yes
Idaterial jacket PVC Shore hardness jacket 92.4.3 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free Uuber diameter (jacket) 6,1 mm Tolerance outer diameter (sheath) ± 5 % Ataterial wire insulation PP Material wire insulation P Duter diameter (sheath) ± 5 % Shore hardness wire insulation 1.1 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55.4 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Numout strands (wire) 7 Orameter of single wires 24 AWG Oraductor consection (wire) 24 AWG Conductor consection (wire) 25.4 X MG Conductor consection (wire) 0.5 N W Current toad capacity (standard) 10 DIV VDE 0294.4 Current toad capacity (standard) 0.0 Q Current toad capacity (standard) 0.5 KV @ 60 s Current toad capacity (standard) 0.5 KV @ 60 s Current toad capacity (standarot)	wire arrangement	brown, white, red, blue, pink, gray, yellow, green
Shore hardness jacket 92 ± 3 Shore A reedom from ingredients (jacket) lead-free, cadmium-free, CFC-free Duter-diameter (jacket) 6,1 mm Orlerance uter diameter (jacket) ± 5 % Material wire insulation PP Unort wires 4 Duter diameter tolerance core insulation ± 5 % Uter diameter tolerance core insulation ± 5 % Shore hardness wire insulation b5 ± 5 Shore D ngredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Noront strands (wire) 7 Diameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Danalet of single wires 24 AWG Conductor wire copper stranded wire, tinned Onimal vottage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 0,5 kV @ 60 s Christian to that act free, capacitance 87 Ωkm @ 20 °C NC withstand voltage (wire - wire) 0,5 kV @ 60 s Cove	Cable weigth	60,5 g/m
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Folerance outer diameter (sheath) ± 5 % Atterial wire insulation PP Amount wires 4 Duter diameter insulation 1.1 mm Duter diameter insulation 5 ± 5 % Shore hardness wire insulation 55 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 7 Jiameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Dandet or single wires 24 AWG Conductor crossection (wire) 24 AWG Dandet or single wires 24 AWG Conductor crossection (wire) 24 AWG Dandet or single wires 24 AWG Conductor crossection (wire) 24 AWG Dandet or single wires 24 AWG Conductor crossection (wire) 0 DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3.6 A Characteristic inpedance 100 Ω Electrical resistance line constant wire 87 Ωkm @ 20 °C Co with stand volta	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free
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Shore hardness wire insulation 55 ± 5 Shore D ngredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Alaterial conductor wire copper stranded wire, tinned Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3.6 A Characteristic impedance 100 Ω Electrical resistance line constant wire 87 Q/km @ 20 °C AC withstand voltage (wire - wire) 0.5 kV @ 60 s Electrical resistance 49000 pF/km Power frequency withstand voltage (wire - ackel) 0.5 kV @ 60 s Min. operating temperature (static) -40 °C Adax. operating temperature (static) -5 °C Opperating temperature (maxil) 70 °C Team resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Dire resistance Good, application-related testing Dire resistance	Outer diameter insulation	1,1 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire copper stranded wire, tinned Vornial voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 0 DIN VDE 0298-4 Current load capacity (standard) 00 Ω Electrical resistance line constant wire 3,6 A Sharacter/sitic impedance 100 Ω Electrical resistance line constant wire 87 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electrical resistance 49000 pF/km Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (fixed) 80 °C Opperating temperature (min. (dynamic)) -5 °C Opperating temperature max. (dynamic) 70 °C Patameteristic ace Good, application-related testing Sasoline resistance Good, application-related testing Sasoline resistance <td< td=""><td>Outer diameter tolerance core insulation</td><td>± 5 %</td></td<>	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire copper stranded wire, tinned Vominal voltage AC max. 300 V Durrent load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Characteristic impedance 100 Ω Electrical resistance line constant wire 87 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 49000 pF/km Power frequency withstand voltage (wire - acket) 0,5 kV @ 60 s Min. operating temperature (istatic) -40 °C Aax. operating temperature (istatic) -40 °C Aax. operating temperature (istatic) -5 °C Opperating temperature max. (dynamic) -5 °C Opperating temperature max. (dynamic) 70 °C Plane resistance Good, application-related testing Sasoline resistance Good, application-related testing Sasoline resistance Good, application-related testing Sasoline resistance Good, application-related testing <td>Shore hardness wire insulation</td> <td>55 ± 5 Shore D</td>	Shore hardness wire insulation	55 ± 5 Shore D
Diameter of single wires24 AWGConductor crosssection (wire)24 AWGAterial conductor wirecopper stranded wire, tinnedNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire3,6 ACharacteristic impedance100 ΩElectrical resistance line constant wire87 Ω/km @ 20 °CAC withstand voltage (wire - wire)0,5 kV @ 60 sElectric capacitance49000 pF/km>ower frequency withstand voltage (wire - acket)0,5 kV @ 60 sMin. operating temperature (static)-40 °CAax. operating temperature (fixed)80 °COpperating temperature min. (dynamic)-5 °COpperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2Homical resistanceGood, application-related testingCasoline resistanceGood, application-related testingDil resistan	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 24 AWG Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Durrent load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3,6 A Characteristic impedance 100 Ω Electrical resistance line constant wire 87 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 49000 pF/km Power frequency withstand voltage (wire - dynamic) -5 «C Operating temperature (static) -40 °C Aax. operating temperature (static) -40 °C Operating temperature max. (dynamic) -5 °C Operating temperature max. (dynamic) -70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Dasoline resistance Good, application-related testing Dasoline resistance Good, application-related testing Dasoline resistance Good, application-related testing Dil resistance	Amount strands (wire)	7
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Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3,6 A Characteristic impedance 100 Ω Electrical resistance line constant wire 87 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 49000 pF/km Power frequency withstand voltage (wire - acket) 0,5 kV @ 60 s Vin. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Deperating temperature (maximic) -5 °C Operating temperature max. (dynamic) -5 °C Deprating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Basoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404	Conductor crosssection (wire)	24 AWG
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Current load capacity min. wire 3,6 A Characteristic impedance 100 Ω Electrical resistance line constant wire 87 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 49000 pF/km Power frequency withstand voltage (wire - acket) 0,5 kV @ 60 s Ower frequency withstand voltage (wire - acket) 0,5 kV @ 60 s Vin. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Operating radius (installation) x Outer diameter Sending radius (fixed) 7 x Outer diameter	Nominal voltage AC max.	300 V
Characteristic impedance 100 Ω Electrical resistance line constant wire 87 Ω/km @ 20 °C AC withstand voltage (wire - wire) 0,5 kV @ 60 s Electric capacitance 49000 pF/km Power frequency withstand voltage (wire - acket) 0,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature (min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testi	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire87 Ω/km @ 20 °CAC withstand voltage (wire - wire)0,5 kV @ 60 sElectric capacitance49000 pF/kmPower frequency withstand voltage (wire - acket)0,5 kV @ 60 sJin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2Chemical resistanceGood, application-related testingBasoline resistanceGood, application-related testingDil resistanceGood,	Current load capacity min. wire	3,6 A
AC withstand voltage (wire - wire)0,5 kV @ 60 sElectric capacitance49000 pF/kmPower frequency withstand voltage (wire - acket)0,5 kV @ 60 sV@ 60 s-40 °CMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingDil resistanceGood, application-related testingDil resistanceGood, application-related testingBanding radius (installation)x Outer diameterSending radius (fixed)7 x Outer diameter	Characteristic impedance	100 Ω
Electric capacitance49000 pF/kmPower frequency withstand voltage (wire - acket)0,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingDil resistanceGood, application-related testingDil resistanceGood, application-related testingBanding radius (installation)x Outer diameterBending radius (fixed)7 x Outer diameter	Electrical resistance line constant wire	87 Ω/km @ 20 °C
Power frequency withstand voltage (wire - acket)0,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2Chemical resistanceGood, application-related testingBasoline resistanceGood, application-related testingDil resistanceGood, application-related testing DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)7 x Outer diameter	AC withstand voltage (wire - wire)	0,5 kV @ 60 s
acket) 0,5 kV @ 80 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Electric capacitance	49000 pF/km
Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Power frequency withstand voltage (wire - jacket)	0,5 kV @ 60 s
Deperating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Schemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Min. operating temperature (static)	-40 °C
Deperating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Sending radius (installation) x Outer diameter Gending radius (fixed) 7 x Outer diameter	Operating temperature min. (dynamic)	-5 °C
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2
Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (installation) x Outer diameter Bending radius (fixed) 7 x Outer diameter	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 7 x Outer diameter	Oil resistance	Good, application-related testing DIN EN 60811-404
	Bending radius (installation)	x Outer diameter
3ending radius (dynamic) 12 x Outer diameter	Bending radius (fixed)	7 x Outer diameter
	Bending radius (dynamic)	12 x Outer diameter

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-26

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