

## Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), Plug angled M12, coding: T, on Socket angled M12, coding: T, cable length: 1 m, For direct current up to 12 A/63 V

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 12 A and 63 V DC
- ✓ Protection against incorrect connection using special T-coding
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads
- ✓ Our standard: robust halogen-free PUR cable



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 055626 962337
GTIN	4055626962337

### Technical data

#### Dimensions

Length of cable	1 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65
	IP67

#### General

Rated current at 40°C	12 A
Rated voltage	63 V DC

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## Technical data

### General

Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	T power
Standards/regulations	M12 connector IEC 61076-2-111
Status display	No
Protective circuit/component	unwired
Overvoltage category	III
Degree of pollution	3
Insertion/withdrawal cycles	> 100
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material of grip body	PP
Material, knurls	Zinc die-cast, nickel-plated

### Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-111
Flammability rating according to UL 94	V0

### Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	LS9YC11Y-OB
Conductor cross section	4x 1.5 mm <sup>2</sup>
AWG power supply	16
Core diameter including insulation	2.4 mm
Thickness, insulation	1.2 mm (Outer cable sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires optimally twisted
Shielding	Tinned copper-braided shield, approx. 85% covering
External sheath, color	black RAL 9005
External cable diameter D	9.7 mm ±0.3 mm
Smallest bending radius, fixed installation	49 mm
Smallest bending radius, movable installation	73 mm
Number of bending cycles	4000000
Bending radius	97 mm
Traversing path	10 m

## Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

### Technical data

#### Cable

Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Torsion force	± 25 °/m
Cable weight	133 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Conductor resistance	≤ 13.3 Ω/km (at 20 °C)
Nominal voltage, cable	300 V AC
Test voltage, cable	1500 V AC (5 min.)
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 90 °C (cable, flexible installation)

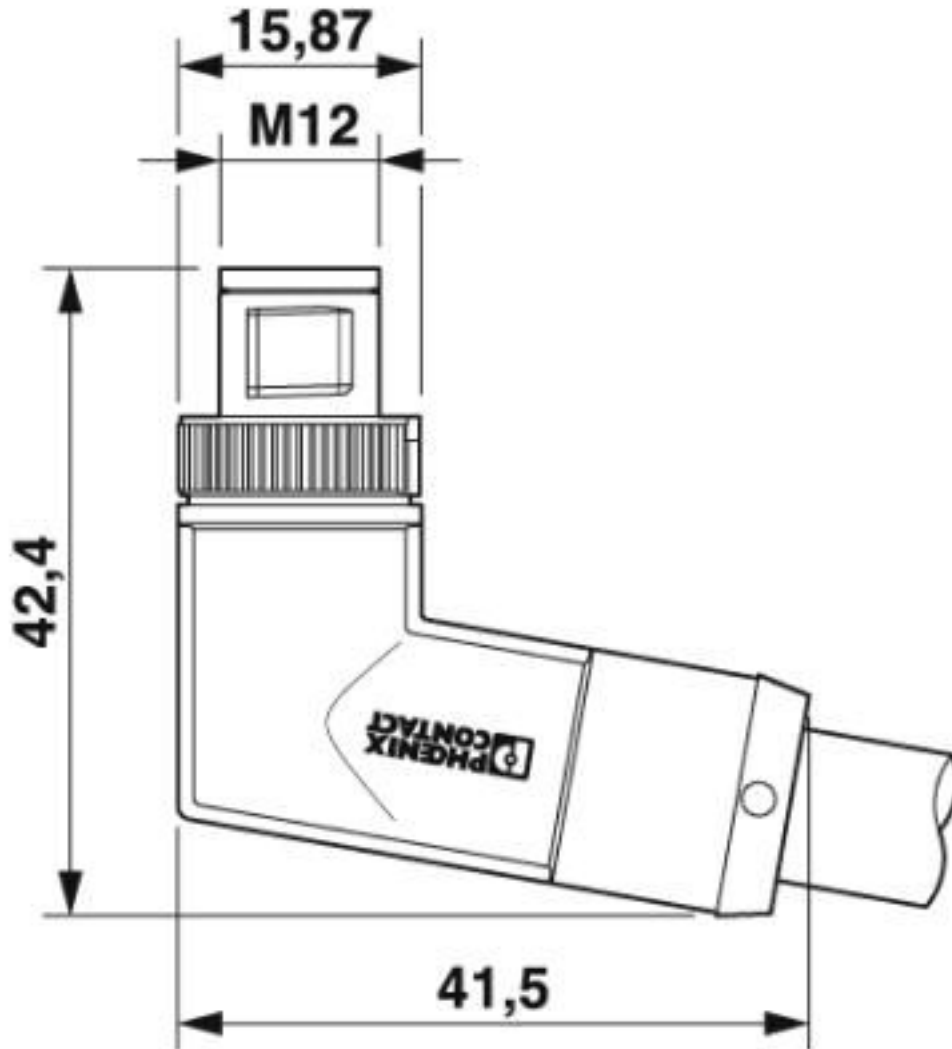
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
	DOTe 15571-58-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

#### Drawings

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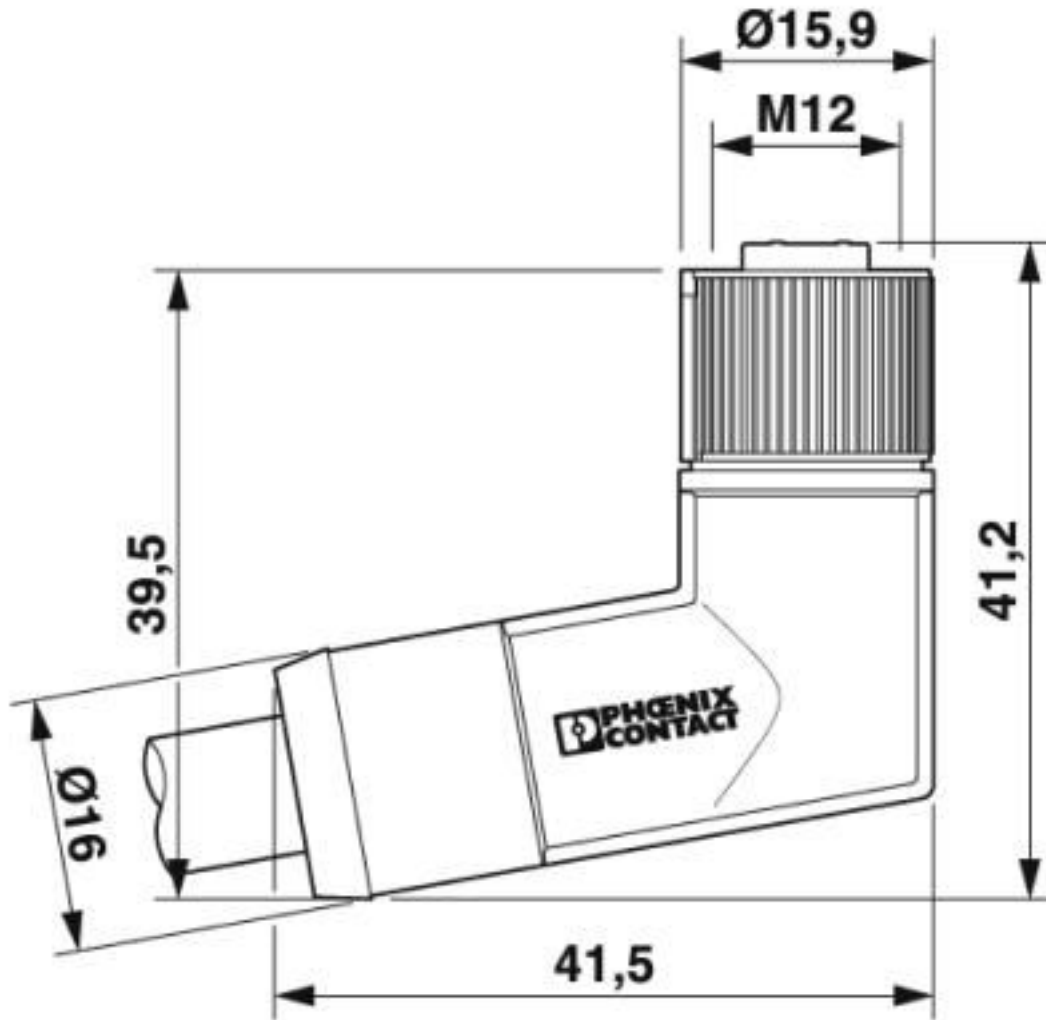
Dimensional drawing



M12 x 1 male plug, angled

# Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

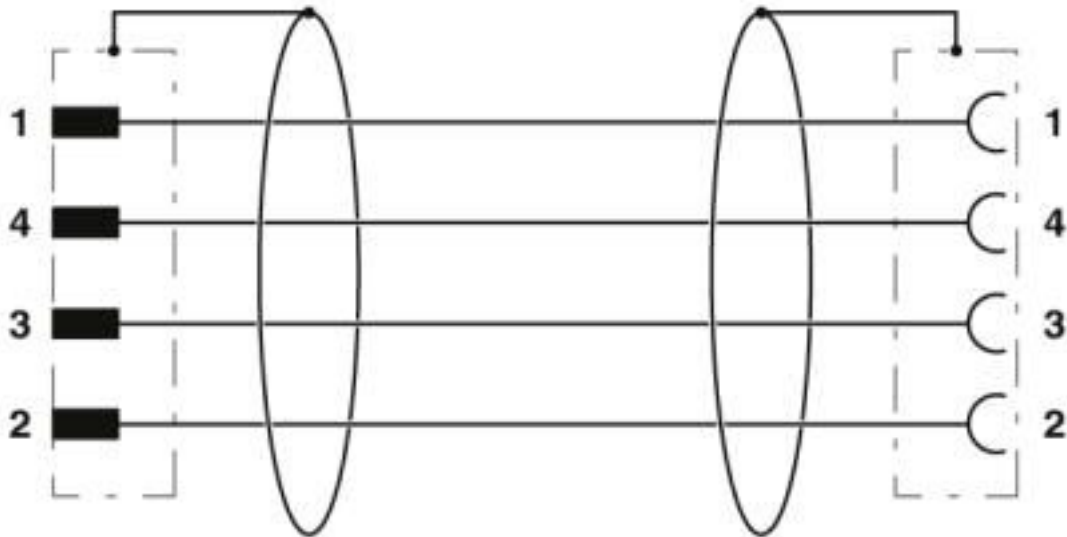
Dimensional drawing



M12 x 1 socket, angled

# Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

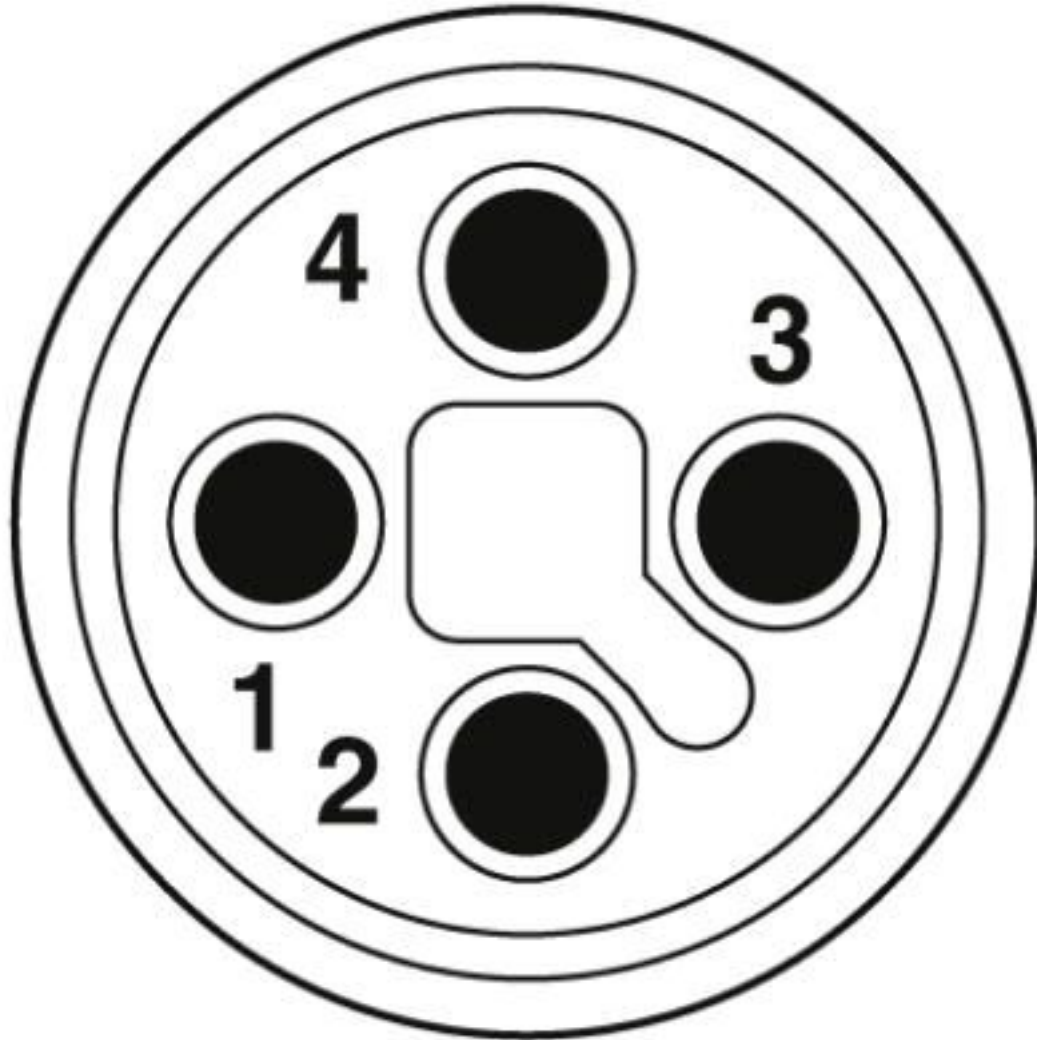
Circuit diagram



Contact assignment of M12 connector/socket

# Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

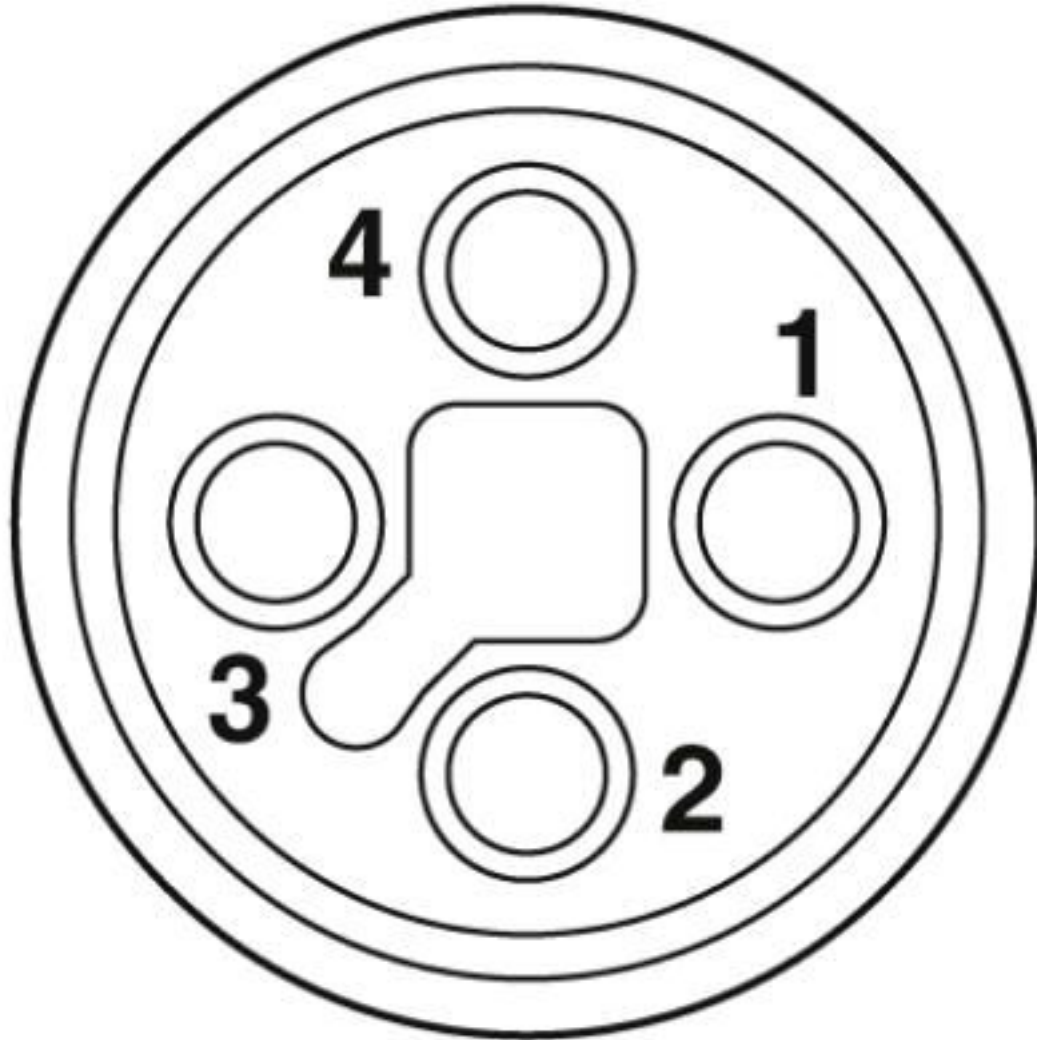
Schematic diagram



Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

## Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

Schematic diagram

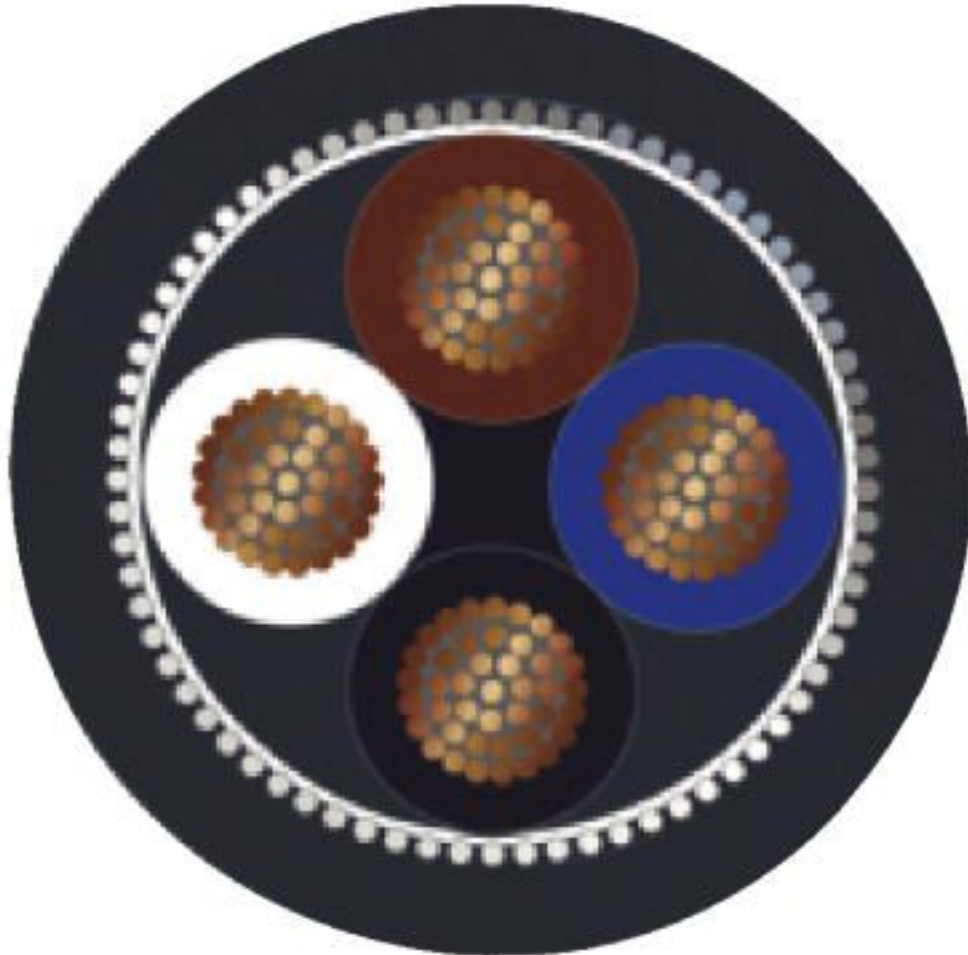


Pin assignment of M12 socket, 4-pos., T-coded, socket side view



# Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

Cable cross section



PUR halogen-free black [PUR]

## Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 11.0	27060311
eCl@ss 9.0	27060311

## Approvals

Approvals

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Approvals

EAC

# Power cable - SAC-4P-M12MRT/ 1,0-PUR/FRT SH - 1102081

## Approvals

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Ex Approvals

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## Approval details

EAC		RU C- DE.BL08.B.00286
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## Accessories

### Accessories

#### Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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## Screwdriver tools

Tool - SAC BIT M12-D16 - 1200305



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive

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Screw plug - PROT M12 MS PWR - 1092802



An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors

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