

## Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Power cable, 5-pos., gray PVC, 2.5 mm<sup>2</sup>, free cable end to straight 7/8" 16UNF socket, length: 1.5 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust connectors in size 7/8"-16UNF
- ✓ High-performance: connectors and cables with a large conductor cross section for power supply



### Key commercial data

Packing unit	1 1
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	1.5 m
-----------------	-------

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 90 °C (Socket)
Degree of protection	IP65
	IP67
	IP68

#### General

Rated current at 40°C	13 A
Rated voltage	600 V
Number of positions	5
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 10 MΩ

## Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

### Technical data

#### General

Coding	A - standard
Status display	No
Surge voltage category	II
Pollution degree	3
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 5
Insertion/withdrawal cycles	100

#### Material

Inflammability class according to UL 94	HB
Contact material	CuZn
Contact surface material	AU
Contact carrier material	PA 66
Material of grip body	TPU
Material, knurls	Zinc die-cast, nickel-plated

#### Cable

Cable type	PVC gray
Cable abbreviation	H05VV5-F
Conductor cross section	2.5 mm <sup>2</sup>
AWG signal line	14
Wire colors	Black 1, black 2, black 3, black 4, green/yellow
Overall twist	5 cores, twisted
External sheath, color	Gray RAL 7001
External cable diameter	10.80 mm
Smallest bending radius, fixed installation	47.2 mm
Smallest bending radius, movable installation	147.5 mm
Cable weight	257 kg/km
Outer sheath, material	PVC
Conductor material	Bare Cu litz wires
Flame resistance	UL 1581, Sec. 1061 (Cable Flame)
	IEC 60332-1-2
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-5 °C ... 90 °C (cable, flexible installation)

### Classifications

eCl@ss

eCl@ss 4.0	27060306
------------	----------

# Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

## Classifications

### eCl@ss

eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218

### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

## Approvals

### Approvals

---

#### Approvals

UL Listed / cUL Listed / GOST / cULus Listed

---

#### Ex Approvals

---

#### Approvals submitted

---

### Approval details

# Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

## Approvals

UL Listed	
Nominal current IN	13 A
Nominal voltage UN	600 V

cUL Listed	
Nominal current IN	13 A
Nominal voltage UN	600 V

GOST	
------	--

cULus Listed	
--------------	--

## Accessories

### Accessories

#### Conductor marking

Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

## Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

### Accessories

Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

---

Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

---

### Cutting tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

---

### Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 15 mm

---

Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 15 mm

## Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

### Accessories

---

Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 15 mm

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

### Protective cap

Screw plug - PROT-MINMS-PA-CHAIN - 1430925



7/8" sealing cap made of plastic with fixing band, for sensor cables, for 7/8" sockets

### Screwdriver tools

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

## Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

### Accessories

Adapter - SAC BIT MIN-D25 - 1212512



SAC nut, for assembling 7/8" connectors, with 4 mm hexagonal drive

---

### Stripping tool

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 4.4 to 7 mm, any stripping length

---

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

---

### Torque tool

Torque screwdriver - TSD 08 SAC - 1212597



Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

---

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

# Sensor/Actuator cable - SAC-5P- 1,5-431/MINFS PWR - 1443501

## Accessories

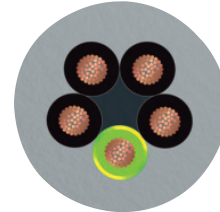
### Drawings

Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

Cable cross section



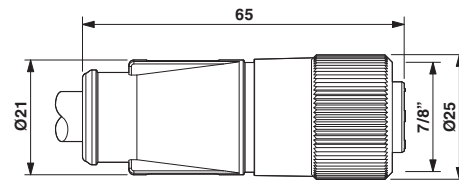
PVC gray [431]

Circuit diagram



Contact assignment of 7/8" socket

Dimensioned drawing



7/8"-16UNF socket, straight