

## VK205C21

### Connection technology • Cable sockets / connectors pre-assembled on one side

Connection cable, 2m, M12 Female (socket) 12pin Angular, Free conductor end, 12x0.14mm<sup>2</sup>, PUR (Polyurethane) Black, Ø6mm, 30V, -30-90°C, IP67, TPU, Shielded, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding are...



ipf cable sockets are used primarily for establishing the electrical connection of sensors. Their features are characterized by rugged design, the highest protection classes (IP67 | IP68 | IP69K) and, if desired, with 360° shielding. With the features: bus-ready, suitable for use with drag chains and robots, resistance to oil and chemicals, resistance to welding sparks, their resistance to cleaning agents or high-pressure and steam-jet cleaning, the expanded temperature range of up to +230°C, the rapid interconnection technology and special data transmission properties, the cable sockets meet all requirements in automation technology.

#### Electrical features

Type of plug-in contact, A connection	Female (socket)
Type of cable	Multi-core
Type of A electrical connection	M12
Type of B electrical connection	Free conductor end
Flow resistance	5mOhm
Line diameter	6mm
Number of pins of A connection	12
Ampacity	1.5A
Operating voltage (AC 50Hz)	30V
Operating voltage (DC)	30V
Shielded	Yes

**Mechanical features**

Number of cores	12
Wire assembly	18 x 0.1mm
Conductor cross-section	0.14mm <sup>2</sup>
Cable sheath color	black
Cable length	2m
Cable infeed of A connection	angular
Maximum tightening torque of connection A	1Nm
bending cycles	≥ 2 million cycles
Degree of protection (IP)	IP67
Torsion cycles	+/-180°/m, ≥ 0.5 million cycles
Contact coating material	Gold
Housing material	TPU
Material of cable sheath	Plastic (PUR)
Contact body material	Brass
Perm. ambient temperature of cable, fixed cable	-40 - 90°C
Perm. ambient temperature of cable, flexible cable	-25 - 60°C
Suitable for trailing chain	Yes
Seawater-resistant	Yes
Material of the screw fitting	Brass
Ambient temperature	-30 - 90°C

**Optical features**

Degree of soiling	3
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**Other features**

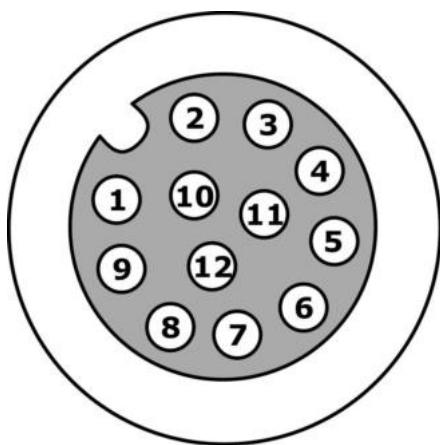
Halogen-free	Yes
Hydrolysis-proof	Yes
Free of LABS	Yes
Ozone and UV-resistant	Yes
Suitable for trailing chain and torsion resistant	Yes
Welding area	Yes
Silicone-free	Yes
Acid and alkali-resistant	Yes
Oil and cooling lubricants	Yes
Ambient temperature	-30 - 90°C
Version	Connection cable

**Classification**

ETIM 8	EC001855 Assembled sensor-actuator cable
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**More**

IPF Product Group	856 cable socket / cable connector (diverse)
packaging dimensions	140 x 140 x 20 mm
gross weight	120 g
Customs tariff number	85444290
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**

<b>1</b>	brown
<b>2</b>	blue
<b>3</b>	white
<b>4</b>	green
<b>5</b>	pink
<b>6</b>	yellow
<b>7</b>	black
<b>8</b>	gray
<b>9</b>	red
<b>10</b>	violet
<b>11</b>	gray/pink
<b>12</b>	red/blue

**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal****Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

Dimensional drawing

