

VK20RF21

Connection technology • Cable sockets / connectors pre-assembled on two sides

Connection cable, 2m, M12 socket 4-pin angular, M12 connector 4-pin straight, 4x0.34mm², PUR (polyurethane) orange, Ø5.2mm, 250V, -40-90°C, IP69K, robotics, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free



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 plug-in contact, B connection	Male (connector)
Type of A electrical connection	M12
Type of B electrical connection	M12
Line diameter	5.2mm
Number of pins of A connection	4
Number of pins of B connection	4
Operating voltage (AC 50Hz)	250V
Operating voltage (DC)	250V

Mechanical features

Number of cores	4
Conductor cross-section	0.34mm ²
Cable sheath color	orange
Cable length	2m
Cable infeed of A connection	angular
Cable infeed of B connection	straight
Maximum tightening torque of connection A	1Nm
Maximum tightening torque of connection B	1Nm
bending cycles	≥ 10 million cycles
Degree of protection (IP)	IP69K
Torsion cycles	+/-360°/m, ≥ 10 million cycles
Contact coating material	Gold
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	-30 - 90°C
Suitable for trailing chain	Yes
Seawater-resistant	Yes
Material of the screw fitting	Brass
Ambient temperature	-40 - 90°C

Optical features

Degree of soiling	3
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Other features

Flame retardant	in accordance with EN 60332-2-2
Halogen-free	Yes
Hydrolysis-proof	Yes
Free of LABS	Yes
Ozone and UV-resistant	Yes
Robotics	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
Version	Connection cable

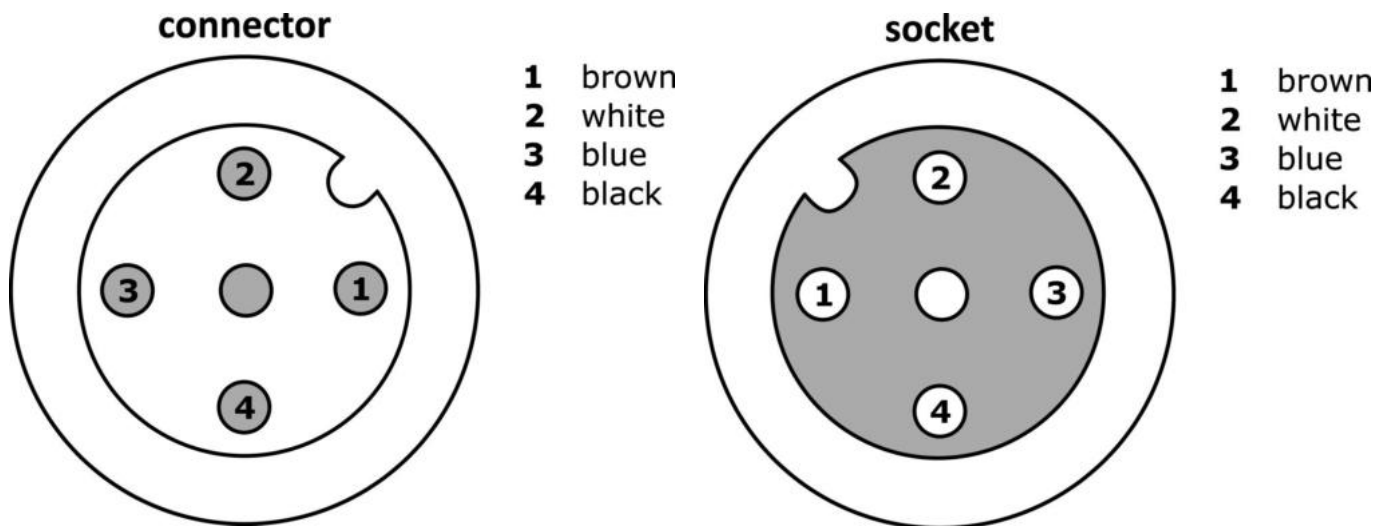
Classification

ETIM 8	EC001855 Assembled sensor-actuator cable
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More

IPF Product Group	851 cable sockets / connectors (both side ready made)
packaging dimensions	
gross weight	94 g
Customs tariff number	85444290
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



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.