

design	2m	
	5m	
	10m	
	20m	
connector	M8	3-pin
	M8	4-pin
	M12	3-pin
	M12	4-pin
	M12	5-pin
	M12	8-pin



- ✓ oil resistant and suitable for trailing chain
- ✓ black PUR cable, halogen- and silicone-free
- ✓ IP67 system of protection when screwed down
- ✓ LED for switching output or operating voltage
- ✓ straight or angular cable sockets
- ✓ shielded M12-cable sockets available
- ✓ wire colors to EURONORM

**ipf-SENSORFLEX®**  
single side ready-made



**description**

Cable sockets with corresponding line lengths are some of the main components in the field of connection technology involving sensors and actuators. They are used as a connection between a sensor and a distributor element so that from there, the transmission of a signal can take place to the machine's control unit.

A coupling is extruded onto one side of the **ipf-SENSORFLEX®** lead. The extrusion mould offers complete protection against the infiltration of moisture and dirt on the coupling side. The other side is open and the corresponding single conductors are displaced by 20mm from the outer jacket, thus making it easy to connect these to other components. The variants with a shielded jacket offer additional protec-

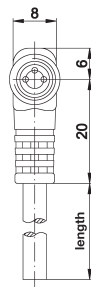
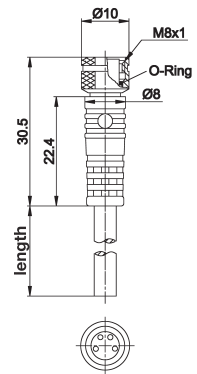
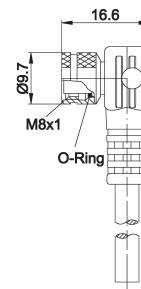
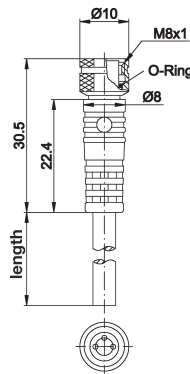
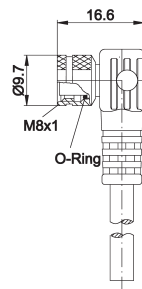
tion against external mechanical and electrical influences. **ipf** cable sockets featuring a LED display signalize the operating voltage and the switching output (pnp) status and/or the status of both switching outputs (2x pnp). On request and in an appropriate number of items other lengths besides the standard lengths are available, too.

**application examples**

In addition to the above-mentioned list, the following cable socket features particularly stand out:

- ▶ high mechanical-dynamic resilience
- ▶ good vibration resistance and impermeability
- ▶ resistance to coolants and lubricants

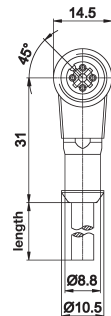
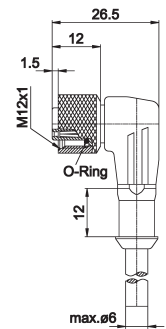
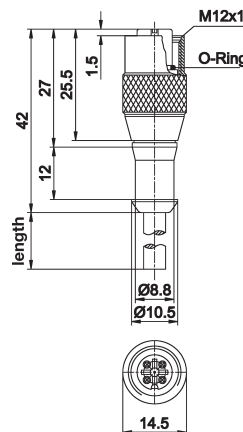
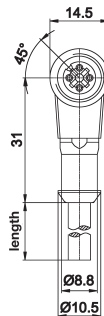
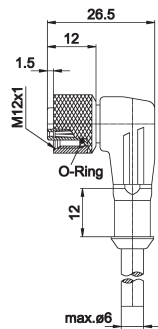
socket	M8, angular 3-pin	M8, straight 3-pin	M8, angular 4-pin	M8, straight 4-pin
number of pins (assigned)				
article-no.	<b>VK200071</b>	<b>VK200075</b>	<b>VK200371</b>	<b>VK200375</b>
length / display	2m / -	2m / -	2m / -	2m / -
article-no.	<b>VK500071</b>	<b>VK500075</b>	<b>VK500371</b>	<b>VK500375</b>
length / display	5m / -	5m / -	5m / -	5m / -
article-no.	<b>VKA00071</b>	<b>VKA00075</b>	<b>VKA00371</b>	<b>VKA00375</b>
length / display	10m / -	10m / -	10m / -	10m / -
article-no.	<b>VK200271</b>	-	-	-
length / display	2m / 2x LED	-	-	-
article-no.	<b>VK500271</b>	-	-	-
length / display	5m / 2x LED	-	-	-
article-no.	<b>VKA00271</b>	-	-	-
length / display	10m / 2x LED	-	-	-



**TECHNICAL DATA**

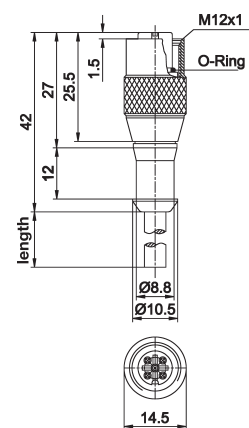
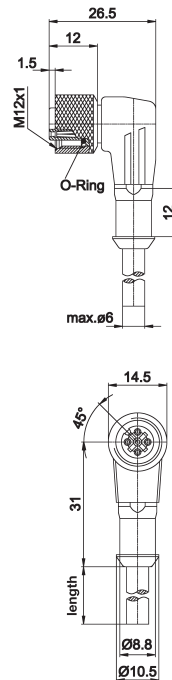
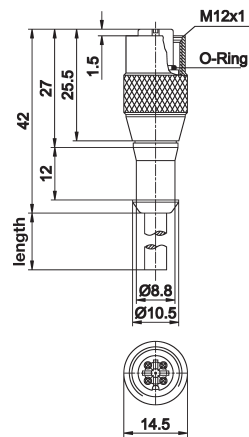
voltage (U <sub>N</sub> ) without LED	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>
voltage (U <sub>N</sub> ) with LED	10 ... 30V DC	-	-	-
display (operating)	green LED (contact 1)	-	-	-
display (signal)	yellow LED (contact 4)	-	-	-
wire assembly	43 x 0.1mm	43 x 0.1mm	43 x 0.1mm	43 x 0.1mm
wire cross section	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>
line diameter	4.3mm	4.3mm	4.7mm	4.7mm
outer jacket material	PUR	PUR	PUR	PUR
operating temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67	IP67
contact no. / wire colors	1/brown 3/blue 4/black	1/brown 3/blue 4/black	1/brown 2/white 3/blue 4/black	1/brown 2/white 3/blue 4/black

socket number of pins (assigned)	M12, angular 3-pin	M12, straight 3-pin	M12, angular 4-pin
article-no.	<b>VK200021</b>	<b>VK200025</b>	<b>VK200321</b>
length / display	2m / -	2m / -	2m / -
article-no.	<b>VK500021</b>	<b>VK500025</b>	<b>VK500321</b>
length / display	5m / -	5m / -	5m / -
article-no.	<b>VKA00021</b>	<b>VKA00025</b>	<b>VKA00321</b>
length / display	10m / -	10m / -	10m / -
article-no.	<b>VK200221</b>	<b>VK200225</b>	<b>VK200421</b>
length / display	2m / 2x LED	2m / 2x LED	2m / 3x LED
article-no.	<b>VK500221</b>	<b>VK500225</b>	<b>VK500421</b>
length / display	5m / 2x LED	5m / 2x LED	5m / 3x LED
article-no.	<b>VKA00221</b>	<b>VKA00225</b>	<b>VKA00421</b>
length / display	10m / 2x LED	10m / 2x LED	10m / 3x LED


**TECHNICAL DATA**

voltage (U <sub>N</sub> ) without LED	240V DC / AC <sub>eff</sub>	240V DC / AC <sub>eff</sub>	240V DC / AC <sub>eff</sub>
voltage (U <sub>N</sub> ) with LED	10 ... 30V DC	10 ... 30V DC	10 ... 30V DC
display (operation)	green LED (contact 1)	green LED (contact 1)	green LED (contact 1)
display (signal)	yellow LED (contact 4)	yellow LED (contact 4)	2 yellow LEDs (contact 2 and 4)
wire assembly	43 x 0.1mm	43 x 0.1mm	43 x 0.1mm
wire cross section	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>
line diameter	4.3mm	4.3mm	4.7mm
outer jacket material	PUR	PUR	PUR
operating temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67
contact no. / wire colors	1/brown 3/blue 4/black	1/brown 3/blue 4/black	1/brown 2/white 3/blue 4/black

socket number of pins (assigned)	M12, straight 4-pin	M12, angular 5-pin	M12, straight 5-pin
article-no.	VK200325	VK200621	VK200625
length / display	2m / -	2m / -	2m / -
article-no.	VK500325	VK500621	VK500625
length / display	5m / -	5m / -	5m / -
article-no.	VKA00325	VKA00621	VKA00625
length / display	10m / -	10m / -	10m / -

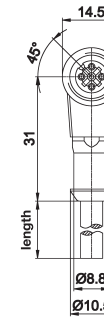
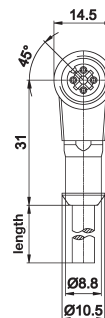
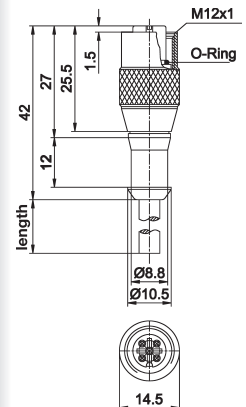
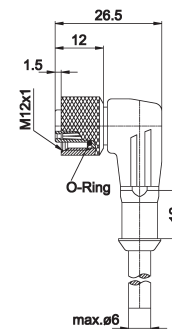
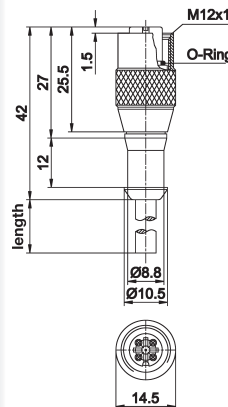
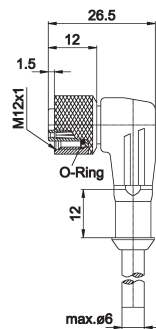


**TECHNICAL DATA**

voltage (U <sub>N</sub> )	240V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub> w/o LED	60V DC / AC <sub>eff</sub> w/o LED
display (operation)	-	-	-
display (signal)	-	-	-
wire assembly	43 x 0.1mm	16 x 0.2mm	16 x 0.2mm
wire cross section	0.34 mm <sup>2</sup>	0.50 mm <sup>2</sup>	0.50 mm <sup>2</sup>
line diameter	4.7mm	5.4mm	5.4mm
outer jacket material	PUR	PUR	PUR
operating temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67
contact no. / wire colors	1/brown 2/white 3/blue 4/black	1/brown 2/white 3/blue 4/black 5/green-yellow	1/brown 2/white 3/blue 4/black 5/green-yellow

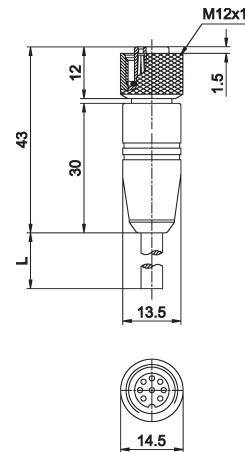
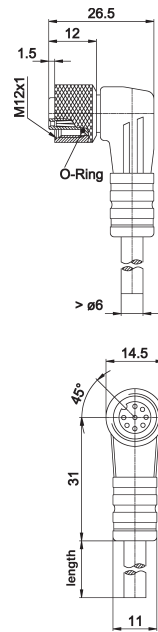
**cable sockets 1000**

socket number of pins (assigned) shielding (tinned)	M12, angular 4-pin 0.1mm Cu-meshwork	M12, straight 4-pin 0.1mm Cu-meshwork	M12, angular 5-pin 0.1mm Cu-meshwork	M12, straight 5-pin 0.1mm Cu-meshwork
article-no.	VK205321	VK205325	VK205621	VK205625
length / display	2m / -	2m / -	2m / -	2m / -
article-no.	VK505321	VK505325	VK505621	VK505625
length / display	5m / -	5m / -	5m / -	5m / -
article-no.	VKA05321	VKA05325	VKA05621	VKA05625
length / display	10m / -	10m / -	10m / -	10m / -
article-no.	-	VKAE5325	-	VKAE5625
length / display	-	15m / -	-	15m / -
article-no.	VKB05321	VKB05325	-	-
length / display	20m / -	20m / -	-	-


**TECHNICAL DATA**

voltage (U <sub>N</sub> )	240V DC/AC <sub>eff</sub> w/o LED	240V DC / AC <sub>eff</sub> w/o LED	60V DC / AC <sub>eff</sub> w/o LED	60V DC / AC <sub>eff</sub> w/o LED
display (operation)	-	-	-	-
display (signal)	-	-	-	-
wire assembly	43 x 0.1mm	43 x 0.1mm	19 x 0.15mm	19 x 0.15mm
wire cross section	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>
line diameter	5.5mm	5.5mm	6mm	6mm
outer jacket material	PUR	PUR	PUR	PUR
operating temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67	IP67
contact no. / wire colors	1/brown 2/white 3/blue 4/black	1/brown 2/white 3/blau 4/schwarz	1/brown 2/white 3/blue 4/black 5/grey	1/brown 2/white 3/blue 4/black 5/grey

socket	M12, angular	M12, straight
number of pins (assigned)	8-pin	8-pin
shielding (tinned)	0.1mm Cu-meshwork	0.1mm Cu-meshwork
article-no.	VK205A21	VK205A25
length / display	2m / -	2m / -
article-no.	VK505A21	VK505A25
length / display	5m / -	5m / -
article-no.	VKA05A21	VKA05A25
length / display	10m / -	10m / -
article-no.	VKB05A21	VKB05A25
length / display	20m / -	20m / -



**TECHNICAL DATA**

voltage (U <sub>N</sub> )	30V DC / AC <sub>eff</sub> w/o LED	30V DC / AC <sub>eff</sub> w/o LED
display (operation)	-	-
display (signal)	-	-
wire assembly	32 x 0.1mm	32 x 0.1mm
wire cross section	0.25 mm <sup>2</sup>	0.25 mm <sup>2</sup>
line diameter	6.6mm	6.6mm
outer jacket material	PUR	PUR
operating temperature	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67
contact no. / wire colors	1/white 2/brown 3/green 4/yellow 5/grey 6/pink 7/blue 8/red	1/white 2/brown 3/green 4/yellow 5/grey 6/pink 7/blue 8/red