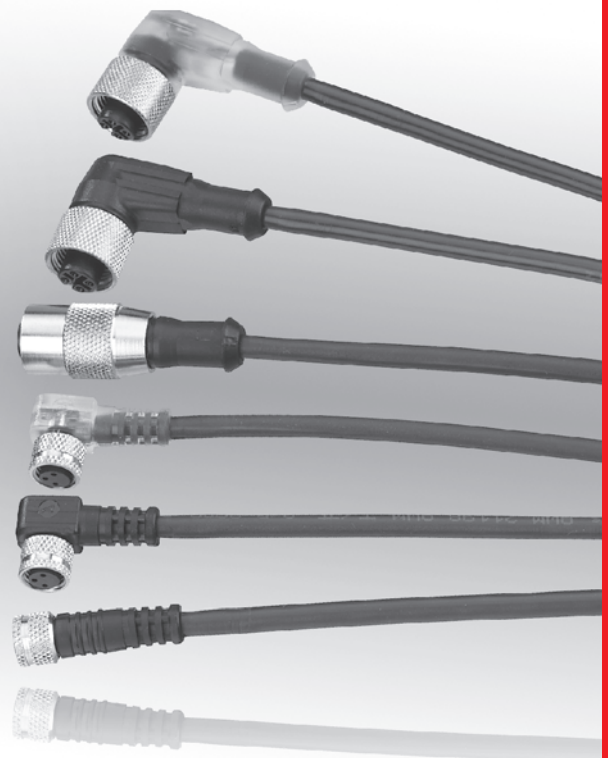


design	2m	
	5m	
	10m	
	20m	
connector	M8	3-pin
	M8	4-pin
	M12	3-pin
	M12	4-pin
	M12	5-pin
	M12	8-pin



- ✓ straight or angular cable sockets
- ✓ shielded M-12 cable sockets available
- ✓ optional LED for operating voltage or switching output
- ✓ oil resistant and suitable for trailing chain
- ✓ black PUR cable, halogen- and silicone-free
- ✓ IP67 system of protection when screwed down
- ✓ 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-SENSOR-FLEX®** 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.

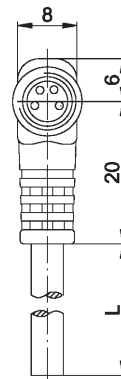
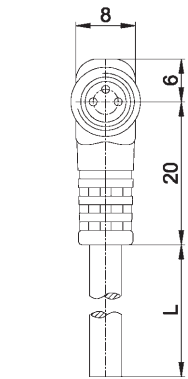
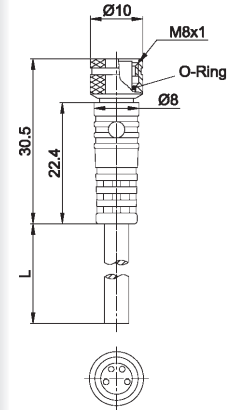
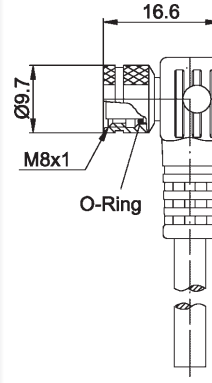
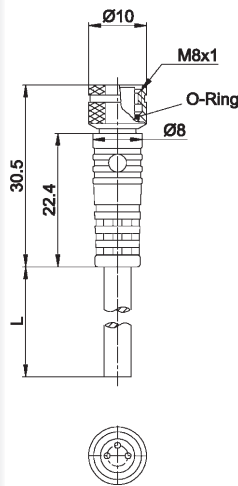
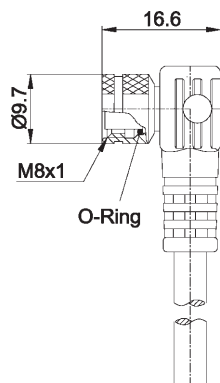
The variants with a shielded jacket offer additional protection against external mechanical and electrical influences.

*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).

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

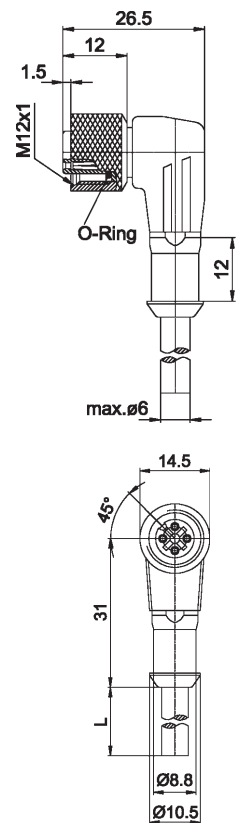
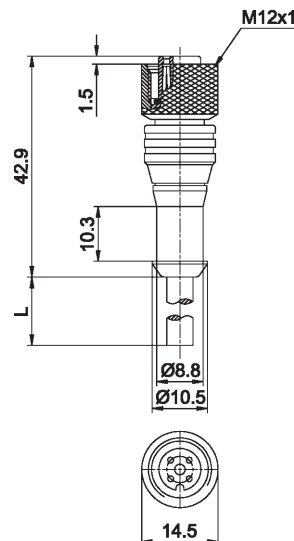
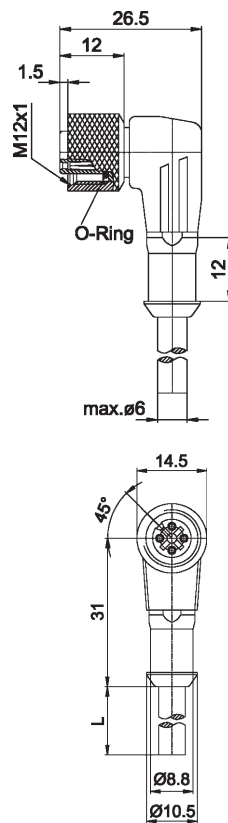


TECHNICAL DATA

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 voltage)	green LED (contact 1)	-	-	-
display (pnp-switching output)	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	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>
outer jacket (diameter)	4.3mm	4.3mm	4.7mm	4.7mm
outer jacket (material)	PUR	PUR	PUR	PUR
ambient temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67	IP67
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

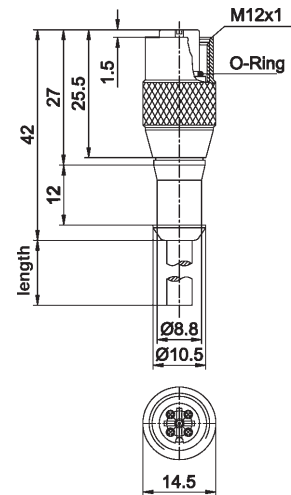
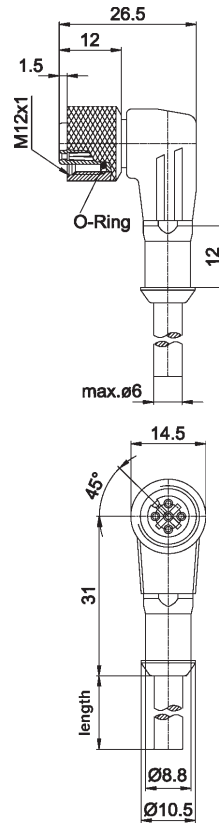
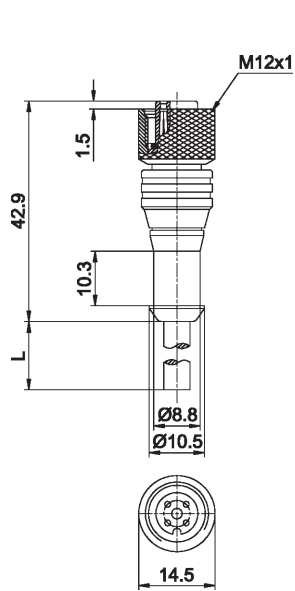
**cable sockets connection technology 1000**

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 ( $U_N$ ) without LED	240V DC / AC <sub>eff</sub>	240V DC / AC <sub>eff</sub>	240V DC / AC <sub>eff</sub>
voltage ( $U_N$ ) with LED	10 ... 30V DC	10 ... 30V DC	10 ... 30V DC
display (operating voltage)	green LED (contact 1)	green LED (contact 1)	green LED (contact 1)
display (pnp-switching output)	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	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>
outer jacket (diameter)	4.3mm	4.3mm	4.7mm
outer jacket (material)	PUR	PUR	PUR
ambient temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67
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 / -

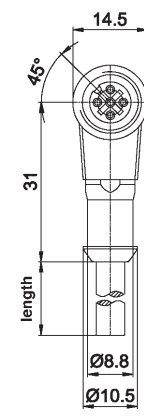
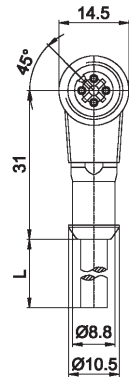
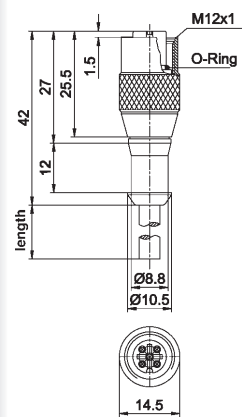
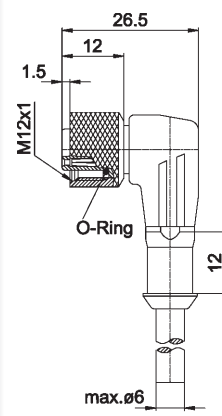
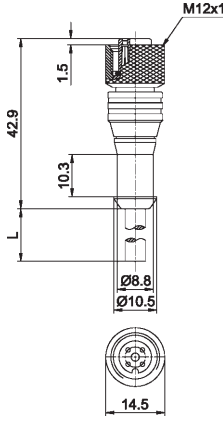
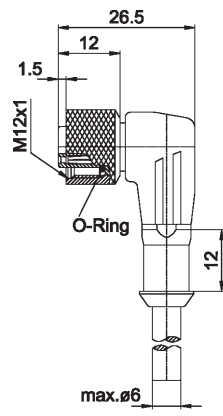


**TECHNICAL DATA**

voltage (U <sub>N</sub> ) without LED	240V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>
voltage (U <sub>N</sub> ) with LED	-	-	-
display (operating voltage)	-	-	-
display (pnp-switching output)	-	-	-
wire assembly	43 x 0.1mm	16 x 0.2mm	16 x 0.2mm
wire cross section	0.34mm <sup>2</sup>	0.50mm <sup>2</sup>	0.50mm <sup>2</sup>
outer jacket (diameter)	4.7mm	5.4mm	5.4mm
outer jacket (material)	PUR	PUR	PUR
ambient temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67
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

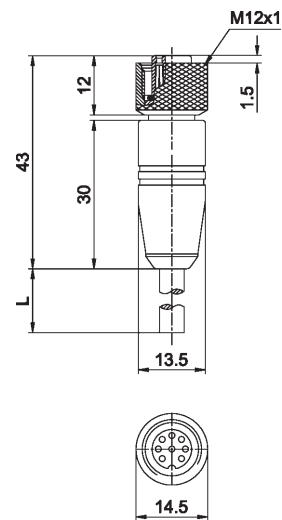
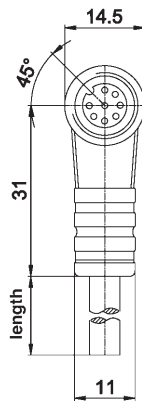
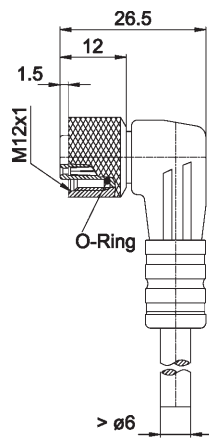
**cable sockets connection technology 1000**

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


**TECHNICAL DATA**

voltage (U <sub>N</sub> ) without LED	240V DC / AC <sub>eff</sub>	240V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>
voltage (U <sub>N</sub> ) with LED	-	-	-	-
display (operating voltage)	-	-	-	-
display (pnp-switching output)	-	-	-	-
wire assembly	43 x 0.1mm	43 x 0.1mm	19 x 0.15mm	19 x 0.15mm
wire cross section	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>	0.34mm <sup>2</sup>
outer jacket (diameter)	5.5mm	5.5mm	6mm	6mm
outer jacket (material)	PUR	PUR	PUR	PUR
ambient temperature	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67	IP67	IP67
wire colors	1/brown 2/white 3/blue 4/black	1/brown 2/white 3/blue 4/black	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> ) without LED	30V DC / AC <sub>eff</sub>	30V DC / AC <sub>eff</sub>
voltage (U <sub>N</sub> ) with LED	-	-
display (operating voltage)	-	-
display (pnp-switching output)	-	-
wire assembly	32 x 0.1mm	32 x 0.1mm
wire cross section	0.25mm <sup>2</sup>	0.25mm <sup>2</sup>
outer jacket (diameter)	6.6mm	6.6mm
outer jacket (material)	PUR	PUR
ambient temperature	-25 ... +80°C	-25 ... +80°C
system of protection (EN 60529)	IP67	IP67
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