



**M8, M12, 3-, 4-, 5-, 8-, 12-pin, LED, shielded**

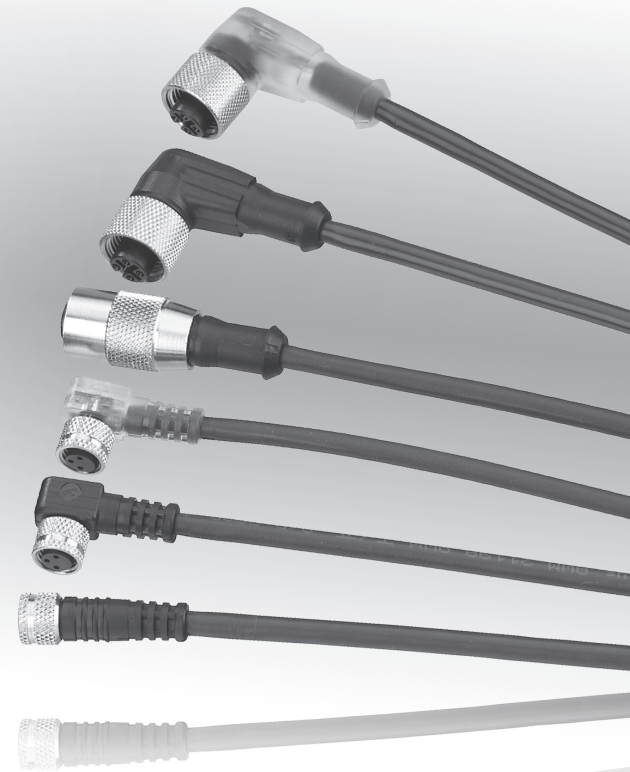
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**NOTES**

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design	2m	
	5m	
	10m	
	15m	
	20m	
connector	M8 / LED	3-pin
	M8 / LED	4-pin
	M12 / LED	3-pin
	M12 / LED	4-pin
	M12	5-pin
	M12	8-pin
	M12	12-pin

- ✓ oil resistant and suitable for trailing chain
- ✓ black PUR cable, halogen- and silicone-free
- ✓ IP67 system of protection in screwed condition
- ✓ LED for switching output or operating voltage
- ✓ straight or angular cable sockets
- ✓ shielded M12-cable sockets available
- ✓ min. bending radius 10x cable diameter in moving condition



**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 50mm 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).

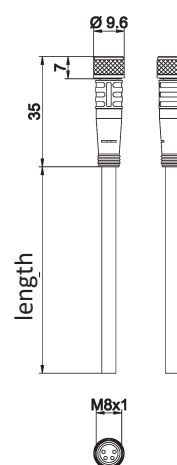
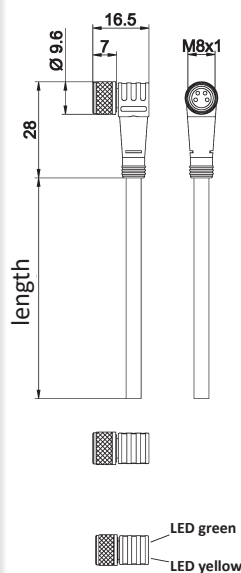
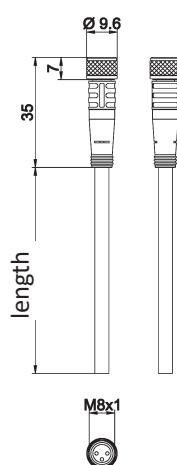
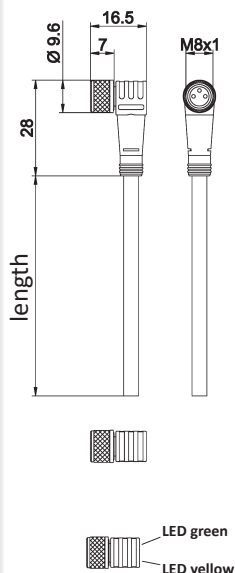
On request and in an appropriate number of items other lengths besides the standard lengths are available, too.

**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	M8, straight	M8, angular	M8, straight
number of pins (assigned):	3-pin	3-pin	4-pin	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	-	VK200471	-
length / display	2m / 2x LED	-	2m / 2x LED	-
article no.	VK500271	-	VK500471	-
length / display	5m / 2x LED	-	5m / 2x LED	-
article no.	VKA00271	-	VKA00471	-
length / display	10m / 2x LED	-	10m / 2x LED	-

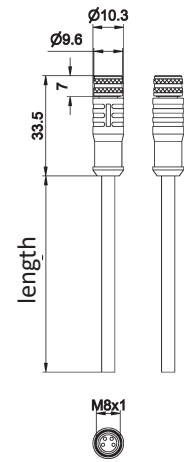
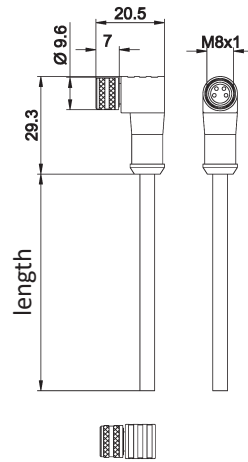
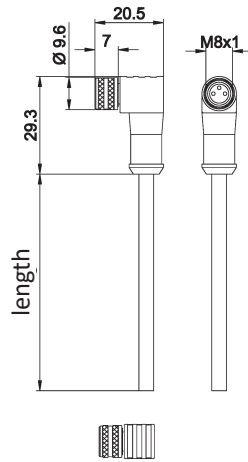


### TECHNICAL DATA

voltage (UN)	60V DC / AC <sub>eff</sub> w/o LED	60V DC / AC <sub>eff</sub> w/o LED	30V DC / AC <sub>eff</sub> w/o LED	30V DC / AC <sub>eff</sub> w/o LED
voltage (UN)	10 ... 24V DC with LED	-	10 ... 24V DC with LED	-
nominal current	4A	4A	4A	4A
status display (operating)	LED green (contact 1)	-	LED green (contact 1)	-
status display (signal)	LED yellow (contact 4)	-	LED yellow (contact 4)	-
wire assembly	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm
wire diameter	3 x 0.34 mm <sup>2</sup>	3 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>
line diameter	Ø 4.3mm	Ø 4.3mm	Ø 4.7mm	Ø 4.7mm
material (outer sheath)	PUR	PUR	PUR	PUR
temperature (operating)	-30 ... +90°C	-25 ... +90°C	-25 ... +90°C	-25 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67	IP67

\* only in screwed condition

socket:	M8, angular	M8, angular	M8, straight
number of pins (assigned):	3-pin	4-pin	4-pin
version	0.1mm copper braided	0.1mm copper braided	0.1mm copper braided
article no.	VK205071	VK205371	VK205375
length/ display	2m / -	2m / -	2m / -
article no.	VK505071	VK505371	VK505375
length/ display	5m / -	5m / -	5m / -
article no.	-	VKA05371	VKA05375
length/ display	-	10m / -	10m / -

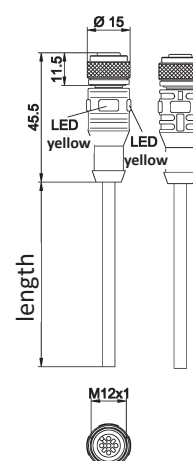
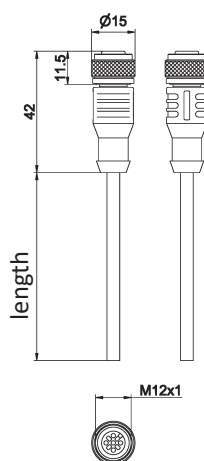
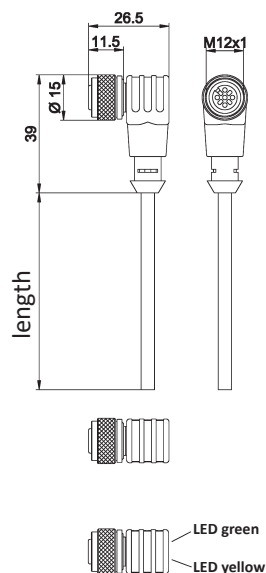


**TECHNICAL DATA**

voltage (UN)	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	30V DC / AC <sub>eff</sub>
voltage (UN)	-	-	-
nominal current	4A	4A	4A
status display (operating)	-	-	-
status display (signal)	-	-	-
wire assembly	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm
wire diameter	3 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>
line diameter	Ø 4.7mm	Ø 5.1mm	Ø 5.1mm
material (outer sheath)	PUR	PUR	PUR
temperature (operating)	-30 ... +90°C	-25 ... +90°C	-25 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67

\* only in screwed condition

socket:	M12, angular	M12, straight	M12, straight
number of pins (assigned):	3-pin	3-pin	3-pin
article no.	VK200021	VK200025	-
length / display	2m / -	2m / -	-
article no.	VK500021	VK500025	-
length / display	5m / -	5m / -	-
article no.	VKA00021	VKA00025	-
length / display	10m / -	10m / -	-
article no.	VK200221	-	VK200225
length / display	2m / 2x LED	-	2m / 2x LED
article no.	VK500221	-	VK500225
length / display	5m / 2x LED	-	5m / 2x LED
article no.	VKA00221	-	VKA00225
length / display	10m / 2x LED	-	10m / 2x LED

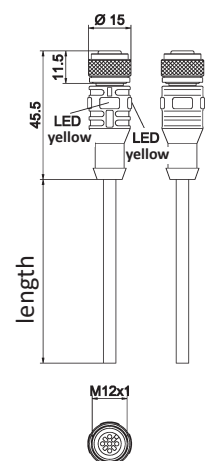
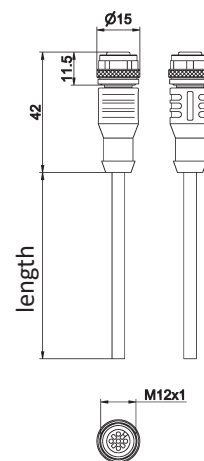
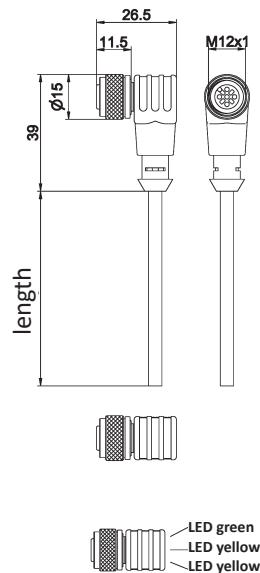


### TECHNICAL DATA

voltage (UN)	250V DC / AC <sub>eff</sub> w/o LED	250V DC / AC <sub>eff</sub> w/o LED	-
voltage (UN)	10 ... 24V DC with LED	-	10 ... 24V DC with LED
nominal current	4A	4A	4A
display (operating)	LED green (contact 1)	-	LED green (contact 1)
display (signal)	LED yellow (contact 4)	-	LED yellow (contact 4)
wire assembly	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm
wire diameter	3 x 0.34 mm <sup>2</sup>	3 x 0.34 mm <sup>2</sup>	3 x 0.34 mm <sup>2</sup>
line diameter	4.3mm	4.3mm	4.3mm
material (outer sheath)	PUR	PUR	PUR
temperature (operating)	-30 ... +90°C	-30 ... +90°C	-30 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67

\* only in screwed condition

socket:	M12, angular	M12, straight	M12, straight
number of pins (assigned):	4-pin	4-pin	4-pin
article no.	VK200321	VK200325	-
length / display	2m / -	2m / -	-
article no.	VK500321	VK500325	-
length / display	5m / -	5m / -	-
article no.	VKA00321	VKA00325	-
length / display	10m / -	10m / -	-
article no.	VK200421	-	VK200425
length / display	2m / 3x LED	-	2m / 2x LED
article no.	VK500421	-	VK500425
length / display	5m / 3x LED	-	5m / 2x LED
article no.	VKA00421	-	VKA00425
length / display	10m / 3x LED	-	10m / 2x LED

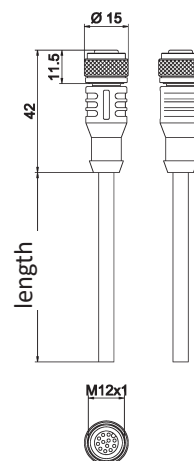
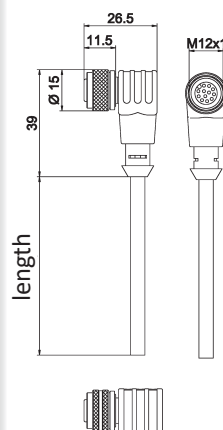
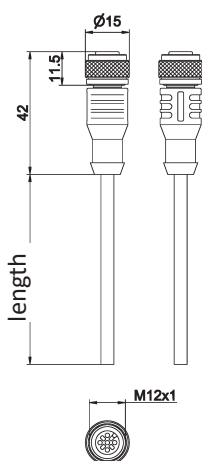
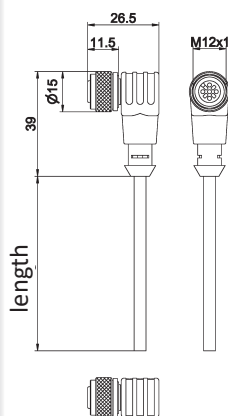


**TECHNICAL DATA**

voltage (UN)	250V DC / AC <sub>eff</sub> w/o LED	250V DC / AC <sub>eff</sub> w/o LED	-
voltage (UN)	10 ... 24V DC with LED	-	10 ... 24V DC with LED
nominal current	4A	4A	4A
status display (operating)	LED green (contact 1)	-	LED green (contact 1)
status display (signal)	2x LED yellow (contact 2 and 4)	-	LED yellow (contact 4)
wire assembly	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm
wire diameter	4 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>
line diameter	4.7mm	4.7mm	4.7mm
material (outer sheath)	PUR	PUR	PUR
temperature (operating)	-30 ... +90°C	-30 ... +90°C	-30 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67

\* only in screwed condition

socket	M12, angular	M12, straight	M12, angular	M12, straight
number of pins (assigned)	5-pin	5-pin	12-pin	12-pin
article no.	VK200621	VK200625	VK200C21	VK200C25
length / display	2m / -	2m / -	2m / -	2m / -
article no.	VK500621	VK500625	VK500C21	VK500C25
length / display	5m / -	5m / -	5m / -	5m / -
article no.	VKA00621	VKA00625	VKA00C21	VKA00C25
length / display	10m / -	10m / -	10m / -	10m / -



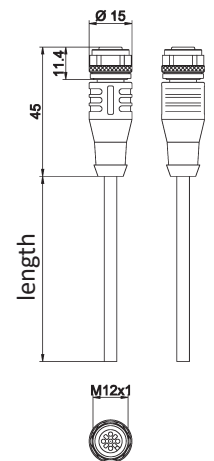
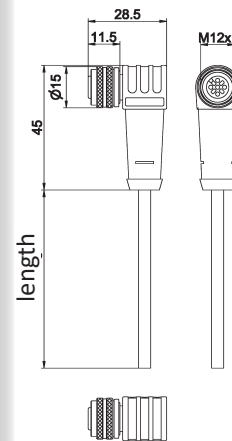
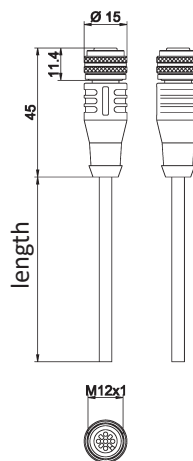
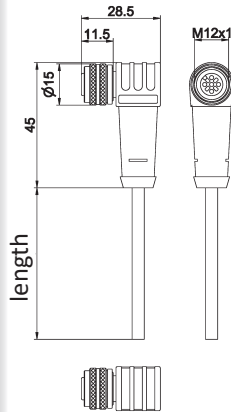
### TECHNICAL DATA

voltage (UN)	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	30V DC / AC <sub>eff</sub>	30V DC / AC <sub>eff</sub>
nominal current	4A	4A	1.5A	1.5A
status display (operating)	-	-	-	-
status display (signal)	-	-	-	-
wire assembly	42 x 0.1mm	42 x 0.1mm	18 x 0.1mm	18 x 0.1mm
wire diameter	5 x 0.34 mm <sup>2</sup>	5 x 0.34 mm <sup>2</sup>	12 x 0.14 mm <sup>2</sup>	12 x 0.14 mm <sup>2</sup>
line diameter	∅ 5.2mm	∅ 5.2mm	∅ 5.6mm	∅ 5.6mm
material (outer sheath)	PUR	PUR	PUR	PUR
temperature (operating)	-25 ... +90°C	-25 ... +90°C	-25 ... +90°C	-25 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67	IP67

\* only in screwed condition



socket	M12, angular	M12, straight	M12, angular	M12, straight
number of pins (assigned)	4-pin	4-pin	5-pin	5-pin
shiled (tinned)	0.1mm copper braided	0.1mm copper braided	0.1mm copper braided	0.1mm copper braided
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	VKB05621	VKB05625
length / display	20m / -	20m / -	20m / -	20m / -

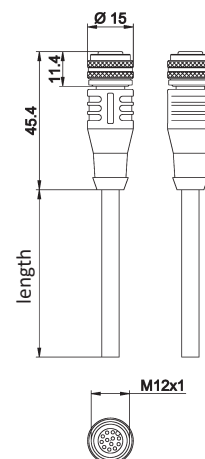
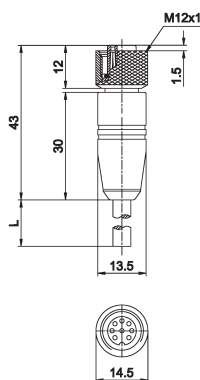
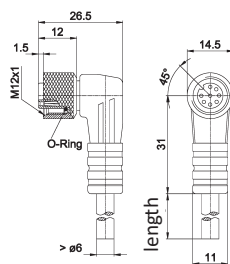


**TECHNICAL DATA**

voltage (UN)	250V DC / AC <sub>eff</sub>	250V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>	60V DC / AC <sub>eff</sub>
nominal current	4A	4A	4A	4A
status display (operating)	-	-	-	-
status display (signal)	-	-	-	-
wire assembly	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm	42 x 0.1mm
wire diameter	4 x 0.34 mm <sup>2</sup>	4 x 0.34 mm <sup>2</sup>	5 x 0.34 mm <sup>2</sup>	5 x 0.34 mm <sup>2</sup>
line diameter	∅ 5.1mm	∅ 5.1mm	∅ 5.6mm	∅ 5.6mm
material (outer sheath)	PUR	PUR	PUR	PUR
temperature (operating)	-25 ... +90°C	-25 ... +90°C	-25 ... +90°C	-25 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67	IP67

\* only in screwed condition

socket	M12, angular	M12, straight	M12, straight
number of pins (assigned)	8-pin	8-pin	12-pin
version	0.1mm copper braided	0.1mm copper braided	0.1mm copper braided
article no.	VK205A21	VK205A25	VK205C25
length / display	2m / -	2m / -	2m / -
article no.	VK505A21	VK505A25	VK505C25
length / display	5m / -	5m / -	5m / -
article no.	VKA05A21	VKA05A25	VKA05C25
length / display	10m / -	10m / -	10m / -
article no.	VKB05A21	VKB05A25	-
length / display	20m / -	20m / -	-

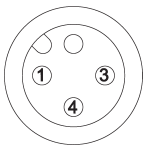


### TECHNICAL DATA

voltage (UN)	30V DC / AC <sub>eff</sub>	30V DC / AC <sub>eff</sub>	30V DC / A <sub>eff</sub>
nominal current	2.0A	2.0A	1.5A
status display (operating)	-	-	-
status display (Signal)	-	-	-
wire assembly	32 x 0.1mm	32 x 0.1mm	18 x 0.1mm
wire diameter	8 x 0.25mm <sup>2</sup>	8 x 0.25mm <sup>2</sup>	12 x 0.14mm <sup>2</sup>
line diameter	∅ 6.3mm	∅ 6.3mm	6.0mm
material (outer sheath)	PUR	PUR	PUR
temperature (operating)	-25 ... +90°C	-25 ... +90°C	-25 ... +90°C
degree of protection (EN 60529)	IP67	IP67	IP67

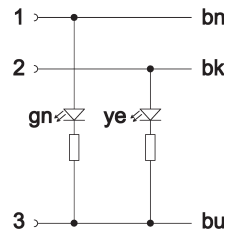
\* only in screwed condition

**connection 3-pin**

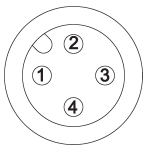


**wire colors:** bn = brown (1), bu = blue (3), bk = black (4)

**with LED**

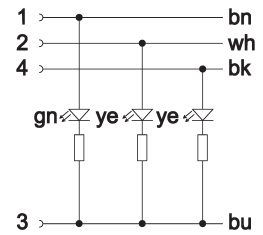
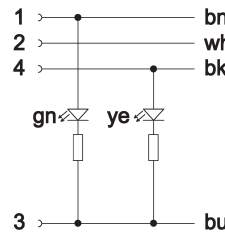


**connection 4-pin**

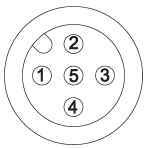


**wire colors:** bn = brown (1), wh = white (2), bu = blue (3), bk = black (4)

**with LED**

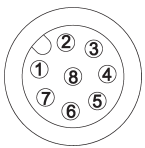


**connection 5-pin**



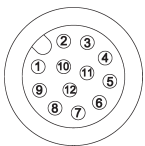
**wire colors:** bn = brown (1), wh = white (2), bu = blue (3), bk = black (4), gnye = green yellow (5)  
with shielded line gr = gray (5)

**connection 8-pin**



**wire colors:** wh = white (1), bn = brown (2), gn = green (3), ye = yellow (4), gy = gray (5), pk = pink (6), bu = blue (7), rd = red (8)

**connection 12-pin**



**wire colors:** bn = brown (1), bu = blue (2), wh = white (3), gn = green (4), pk = pink (5), ye = yellow (6), bk = black (7), gy = gray (8), rd = red (9), vt = violet (10), gypk = gray pink (11), rdbu = red blue (12)

This data sheet contains the standard versions only. Kindly request the availability of other lengths.

**Warning:** Never use these articles in applications where the safety of a person depends on their functionality.

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**NOTES**

A large grid area for taking notes, consisting of a 20x30 grid of small squares. The grid is empty and occupies the majority of the page below the 'NOTES' header.