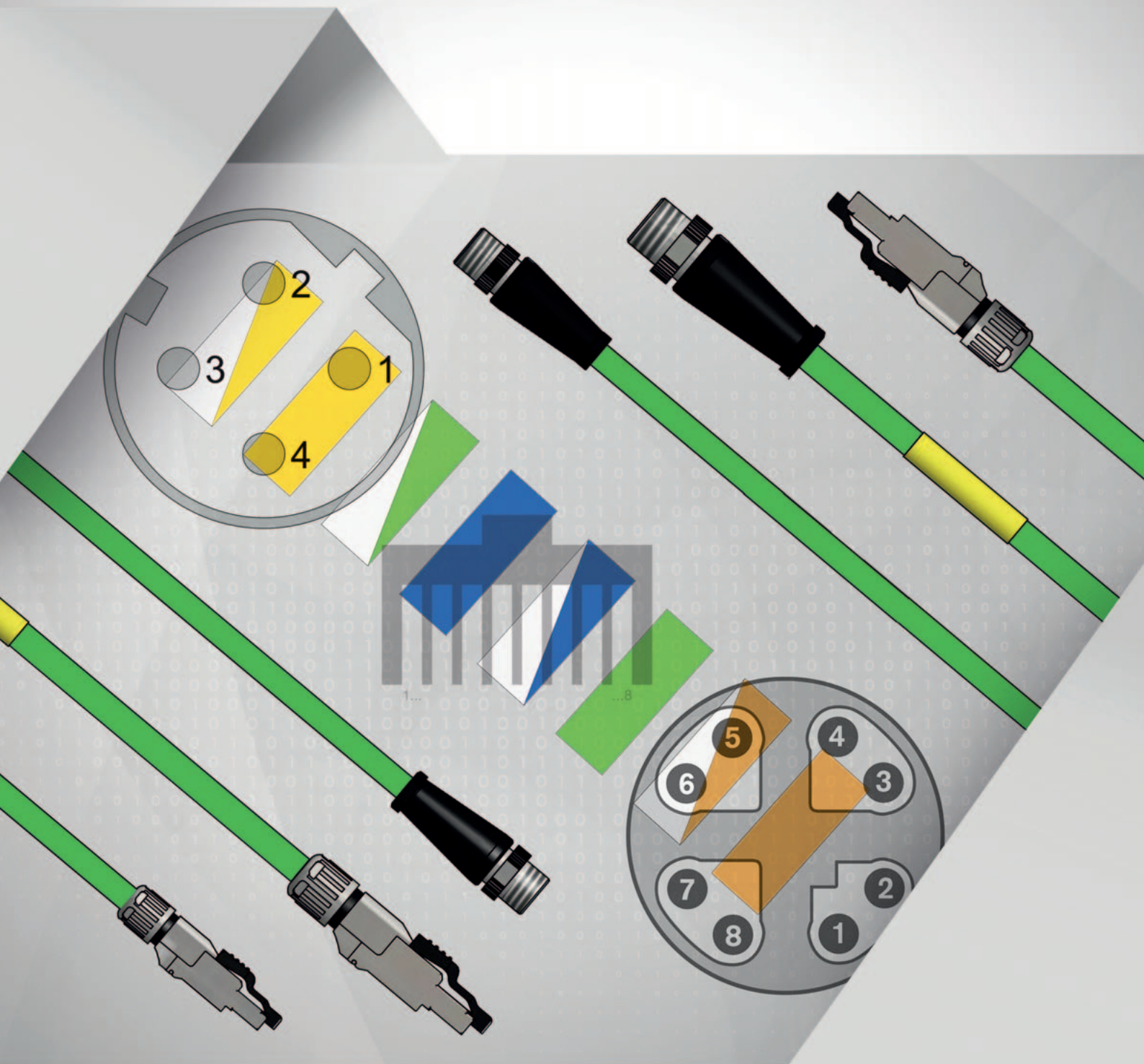
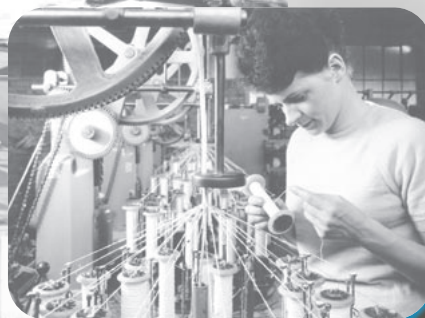


# HARNESSED ETHERNET CABLES





TRADITIONAL  
FAMILY BUSINESS  
SINCE 1947

## Family business in the third generation

**75** years of experience in cable and wire manufacturing as well as in temperature measurement technology turned a one-man business into a company with more than 550 employees. We prove our strength every year with more than 1500 special products according to customers' requirements. Each product is a new challenge for our creative technical team. We at **SAB** see ourselves as a manufacturer and a service provider – in the sense of true partnership and the greatest possible customer orientation.

Today, the quality of our products is known and appreciated in more than 100 countries around the world. In all product ranges, we are certified according to DIN EN ISO 9001. Furthermore, we have implemented an environmental management system for our company according to DIN EN ISO 14001, an occupational health and safety management system according to NLF/ILO-OSH and DIN ISO 45001, and an energy management system according to DIN EN ISO 50001.

And also for the future, our slogan is: **"WE GO FORWARD!"**

FOUNDED:	1947 by Peter Bröckskes sen. an independent, medium-sized company.
CEO:	Peter Bröckskes and Sabine Bröckskes-Wetten
PLANT/LOCATION:	In Viersen (Lower Rhine) 110.000 m <sup>2</sup> company site.  Own manufacturing from copper conductor to outer sheath.  VDE approved burnchamber and laboratory within the company.
EMPLOYEES/WORKERS:	approx. 430 at the plant in Viersen, 550 worldwide
YEARLY SALES:	over 134 Mio. € worldwide
PRODUCTS:	Special Cables  Measurement Technology  Cable Harnessing
CERTIFICATES AND APPROVALS:	<p>Quality management system acc. to DIN EN ISO 9001 for every manufacturing field</p> <p>Environmental management system acc. to DIN EN ISO 14001</p> <p>Occupational health and safety management acc. to NLF/ILO-OSH and DIN ISO 45001</p> <p>Energy management system acc. to DIN EN ISO 50001</p>





# ETHERNET CABLES

## CATLINE CAT 6A S - IE CONNECTION CABLE

Industrial Ethernet cable, suitable for cable tracks,  
with moulded M12 male connector assembly at both sides



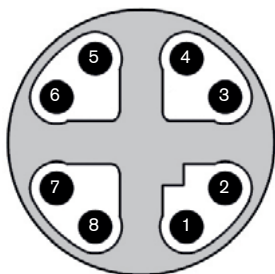
**Application:** IE system cable for continuously flexible application, e.g. in cable tracks in industrial environment.

### Technical Data:

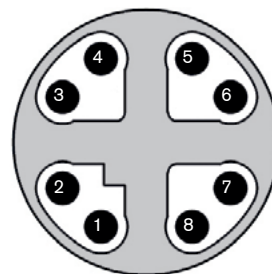
<b>Temperature range:</b>	-40 °C to +70 °C
<b>Voltage:</b>	48 V
<b>Protection class:</b>	IP67 in stretched condition
<b>Connection side 1:</b>	M12 X-coded, male connector, straight, moulded with vibration seal
<b>Connection side 2:</b>	M12 X-coded, male connector, straight, moulded with vibration seal
<b>Marking:</b>	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

<b>SAB item no.:</b>	L1677-4631
<b>Dimension:</b>	4 x 2 x 26 AWG
<b>Conductor:</b>	bare copper strands, fine wires
<b>Insulation:</b>	special polymer
<b>Screen:</b>	alu foil and tinned copper braiding
<b>Outer sheath:</b>	PUR, green (similar RAL 6018)
<b>Outer diameter:</b>	approx. 7,1 mm
<b>Approvals:</b>	UL/CSA
<b>Oil resistance:</b>	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Min. bending radius</b>	
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	15 x d



connection diagram/pin assignment			
side 1	1:1		side 2
M12 connector	core		M12 connector
pin 1	white-orange		pin 1
pin 2	orange		pin 2
pin 3	white-green		pin 3
pin 4	green		pin 4
pin 5	white-brown		pin 5
pin 6	brown		pin 6
pin 7	white-blue		pin 7
pin 8	blue		pin 8
housing	screen		housing



item no. with length code	
length	item no.: S1677-4020-_____
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000
15,0 m	01500
20,0 m	02000
25,0 m	02500

## CATLINE CAT 6A S - IE CONNECTION CABLE

Industrial Ethernet cable, suitable for cable tracks, with mounted RJ45 connector at both sides



**Application:** IE system cable Cat. 6A for continuously flexible application, e.g. in cable tracks in industrial environment.









### Technical Data:

Temperature range:	-40 °C to +70 °C
Voltage:	50 V
Protection class:	IP20
Connection side 1:	RJ45 connector, mounted, Cat. 6A, 8-pole with cable gland
Connection side 2:	RJ45 connector, mounted, Cat. 6A, 8-pole with cable gland
Marking:	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

SAB item no.:	L1677-4631
Dimension:	4 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires
Insulation:	special polymer
Screen:	alu foil and tinned copper braiding
Outer sheath:	PUR, green (similar RAL 6018)
Outer diameter:	approx. 7,1 mm
Approvals:	UL/CSA
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Min. bending radius	
flexible application:	5 x d
continuously flexible:	15 x d



connection diagram/pin assignment		
side 1	TIA 568-B	side 2
RJ45	core	RJ45
pin 1	 white-orange	pin 1
pin 2	 orange	pin 2
pin 3	 white-green	pin 3
pin 4	 blue	pin 4
pin 5	 white-blue	pin 5
pin 6	 green	pin 6
pin 7	 white-brown	pin 7
pin 8	 brown	pin 8
housing	screen	housing



item no. with length code	
length	item no.: S1677-4026-_____
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000
15,0 m	01500
20,0 m	02000
25,0 m	02500

## S PN 667 - PN CONNECTION CABLE

Profinet cable, suitable for cable tracks, with mounted RJ45 connector at both sides



**Application:** PN system cable Cat.5 for continuously flexible application, e.g. in cable tracks in industrial environment.









### Technical Data:

Temperature range:	-40 °C to +70 °C
Voltage:	50 V
Protection class:	IP20
Connection side 1:	RJ45 connector, mounted
Connection side 2:	RJ45 connector, mounted
Marking:	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

SAB item no.:	L0667-2202
Dimension:	2 x 2 x 22 AWG
Conductor:	bare copper strands, 7 wires
Insulation:	special polymer
Screen:	alu foil and tinned copper braiding
Outer sheath:	PUR, green (similar RAL 6018)
Outer diameter:	6,5 mm ± 0,2 mm
Approvals:	UL/CSA
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Min. bending radius	
flexible application:	5 x d
continuously flexible:	15 x d



connection diagram/pin assignment					
side 1	1:1			side 2	
RJ45	core			RJ45	
pin 1		yellow		pin 1	
pin 2		white		pin 2	
pin 3		orange		pin 3	
pin 4				pin 4	
pin 5				pin 5	
pin 6		blue		pin 6	
pin 7				pin 7	
pin 8				pin 8	
housing	screen			housing	



item no. with length code	
length	item no.: S0667-4026-_____
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000
15,0 m	01500
20,0 m	02000
25,0 m	02500

## S PN 667 - PN CONNECTION CABLE

Profinet cable, suitable for cable tracks type C, with moulded M12 connector at both sides



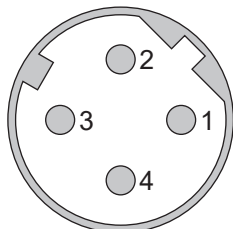
**Application:** PN system cable Cat.5 for continuously flexible application, e.g. in cable tracks in industrial environment.









### Technical Data:

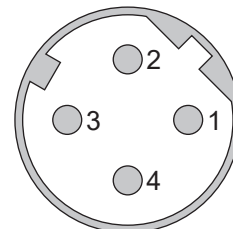
<b>Temperature range:</b>	-40 °C to +70 °C
<b>Voltage:</b>	25 V
<b>Protection class:</b>	IP67 in stretched condition
<b>Connection side 1:</b>	M12 D-coded, straight, moulded with vibration seal
<b>Connection side 2:</b>	M12 D-coded, straight, moulded with vibration seal
<b>Marking:</b>	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

<b>SAB item no.:</b>	L0667-2202
<b>Dimension:</b>	2 x 2 x 22 AWG
<b>Conductor:</b>	bare copper strands, 7 wires
<b>Insulation:</b>	special polymer
<b>Screen:</b>	alu foil and tinned copper braiding
<b>Outer sheath:</b>	PUR, green (similar RAL 6018)
<b>Outer diameter:</b>	6,5 mm ± 0,2 mm
<b>Approvals:</b>	UL/CSA
<b>Oil resistance:</b>	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Min. bending radius</b>	
<i>flexible application:</i>	5 x d
<i>continuously flexible:</i>	15 x d



connection diagram/pin assignment					
side 1	1:1			side 2	
M12 connector	core			M12 connector	
pin 1		yellow		pin 1	
pin 2		white		pin 2	
pin 3		orange		pin 3	
pin 4		blue		pin 4	
housing	screen			housing	



item no. with length code	
length	item no.: S0667-4002-_____
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000
15,0 m	01500
20,0 m	02000
25,0 m	02500

# ETHERNET CABLES



## S PN 667 - PN CONNECTION CABLE

Profinet cable, suitable for cable tracks,  
with moulded M12 connector and mounted RJ45 connector



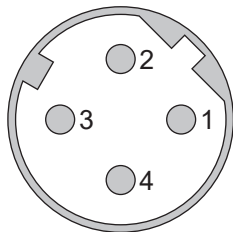
**Application:** PN system cable Cat.5 for continuously flexible application, e.g. in cable tracks in industrial environment.

### Technical Data:

Temperature range:	-40 °C to +70 °C
Voltage:	50 V
Protection class:	IP67 (M12, in stretched condition), IP20 (RJ45)
Connection side 1:	M12 D-coded, straight, moulded with vibration seal
Connection side 2:	RJ45 connector, mounted
Marking:	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

SAB item no.:	L0667-2202
Dimension:	2 x 2 x 22 AWG
Conductor:	bare copper strands, 7 wires
Insulation:	special polymer
Screen:	alu foil and tinned copper braiding
Outer sheath:	PUR, green (similar RAL 6018)
Outer diameter:	6,5 mm ± 0,2 mm
Approvals:	UL/CSA
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Min. bending radius	
flexible application:	5 x d
continuously flexible:	15 x d



connection diagram/pin assignment					
side 1	1:1			side 2	
M12 connector	core			RJ45	
pin 1		yellow		pin 1	
pin 2		white		pin 2	
pin 3		orange		pin 3	
				pin 4	
				pin 5	
pin 4		blue		pin 6	
				pin 7	
				pin 8	
housing	screen			housing	



item no. with length code	
length	item no.: S1667-4028-_____
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000
15,0 m	01500
20,0 m	02000
25,0 m	02500



# ETHERNET CABLES



## CATLINE CAT. 6A S - IE CONNECTION CABLE

Industrial Ethernet cable, suitable for cable tracks,  
with moulded M12 connector and mounted RJ45 connector



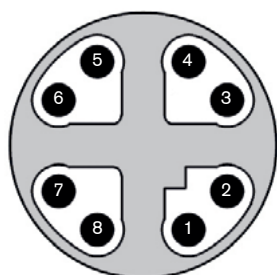
**Application:** IE system cable for continuously flexible application, e.g. in cable tracks in industrial environment.

### Technical Data:

Temperature range:	-40 °C to +70 °C
Voltage:	48 V
Protection class:	IP67 (M12, in stretched condition), IP20 (RJ45)
Connection side 1:	M12 X-coded, male connector, straight, moulded with vibration seal
Connection side 2:	RJ45 connector, mounted, Cat. 6A, 8-pole with cable gland
Marking:	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

SAB item no.:	L1677-4631
Dimension:	4 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires
Insulation:	special polymer
Screen:	alu foil and tinned copper braiding
Outer sheath:	PUR, green (similar RAL 6018)
Outer diameter:	approx. 7,1 mm
Approvals:	UL/CSA
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Min. bending radius	
flexible application:	5 x d
continuously flexible:	15 x d



connection diagram/pin assignment		
side 1	TIA 568-B	side 2
M12 connector	core	M12 connector
pin 1	white-orange	pin 1
pin 2	orange	pin 2
pin 3	white-green	pin 3
pin 4	green	pin 4
pin 5	white-brown	pin 5
pin 6	brown	pin 6
pin 7	white-blue	pin 7
pin 8	blue	pin 8
housing	screen	housing



item no. with length code	
length	item no.: S1677-4027-_____
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000
15,0 m	01500
20,0 m	02000
25,0 m	02500

## CATLINE CAT. 6A S - IE CONNECTION CABLE

Industrial Ethernet cable, suitable for cable tracks,  
with mounted RJ45 connector and mounted RJ12 connector



**Application:** Connection cable between PC and IP cameras.

### Technical Data:

<b>Temperature range:</b>	-20 °C to +70 °C
<b>Connection side 1:</b>	RJ45 connector, mounted, Cat. 6A, 8-pole with cable gland
<b>Connection side 2:</b>	RJ12 connector, mounted
<b>Marking:</b>	yellow marking tube with marking: item number - order number - length - certification mark

### Cable characteristics:

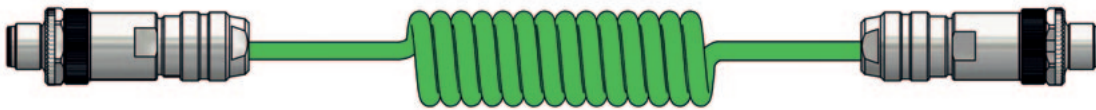
<b>SAB item no.:</b>	L1677-4631
<b>Dimension:</b>	4 x 2 x 26 AWG
<b>Conductor:</b>	bare copper strands, fine wires
<b>Insulation:</b>	special polymer
<b>Screen:</b>	alu foil and tinned copper braiding
<b>Outer sheath:</b>	PUR, green (similar RAL 6018)
<b>Outer diameter:</b>	approx. 7,1 mm
<b>Approvals:</b>	UL/CSA
<b>Oil resistance:</b>	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Min. bending radius</b>	
<i>flexible application:</i>	5 x d
<i>continuously flexible:</i>	15 x d

item no. with length code	
length	item no.: S1677-4044- _ _ _ _ _
0,5 m	00050
1,0 m	00100
2,0 m	00200
3,0 m	00300
5,0 m	00500
7,5 m	00750
10,0 m	01000



## ETHERNET CABLE

Helix cable with axial outlets and M12 D-coded male connectors



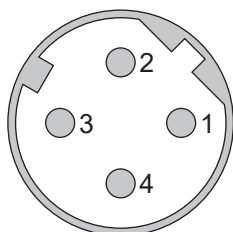
**Application:** Cat. 5 Profinet cable as helix cable for mobile use on machines and systems.









### Technical Data:

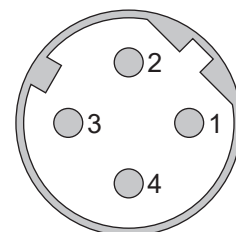
Temperature range:	-30 °C to +80 °C
Voltage:	max. 113 V
Connection side 1:	M12 D-coded
Connection side 2:	M12 D-coded
Marking:	yellow marking tube with marking: item number - order number - length - certification mark, with customer identification on request!

### Cable characteristics:

SAB item no.:	L0616-9066
Dimension:	2 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires
Insulation:	SABIX®
Screen:	tinned copper braiding
Outer sheath:	PUR, green (similar RAL 6018)
Outer diameter:	approx. 6,1 mm

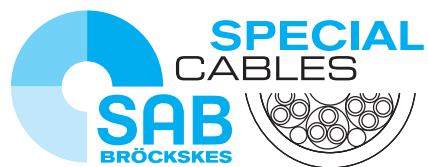


connection diagram/pin assignment					
side 1	1:1			side 2	
M12 connector	core			M12 connector	
pin 1		yellow		pin 1	
pin 2		white		pin 2	
pin 3		orange		pin 3	
pin 4		blue		pin 4	
housing	screen			housing	



**Individual lengths  
and further  
plug combinations  
on request!**





**SAB** Bröckskes GmbH & Co. KG

Grefrather Str. 204 - 212 b

41749 Viersen · GERMANY

Tel.: +49/2162/898-0

Fax: +49/2162/898-101

[www.sab-cable.com](http://www.sab-cable.com)

[info@sab-cable.com](mailto:info@sab-cable.com)