HARNESSED
ETHERNET CABLES

SPECIAL CABLES
SAB FRANCE
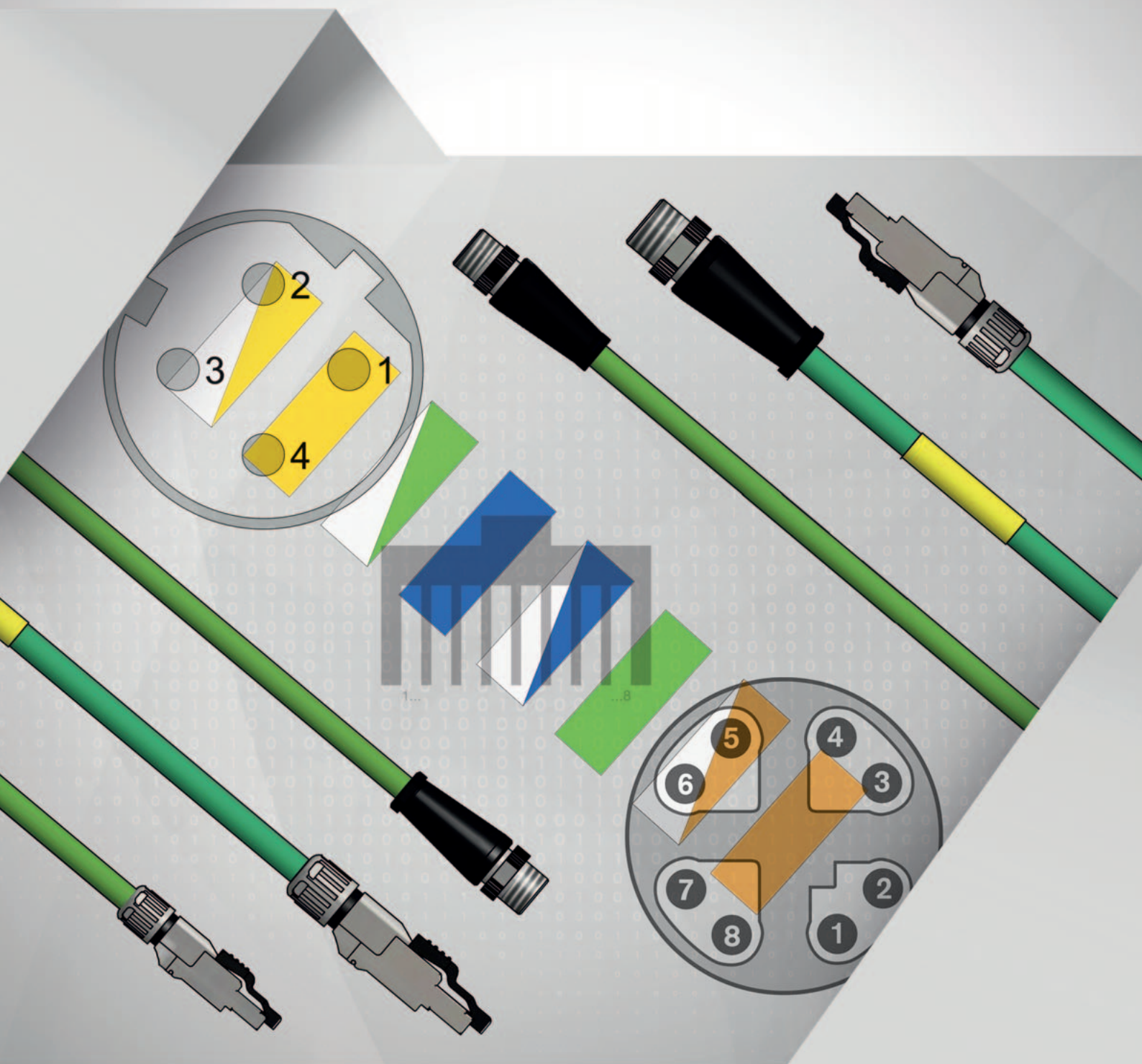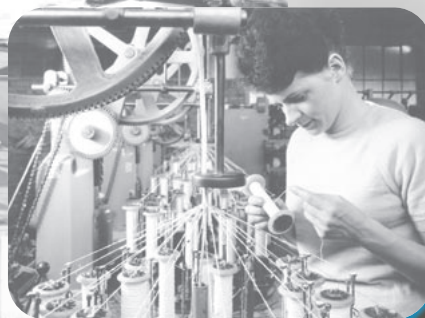
ENTREPRISE FAMILIALE
TRADITIONNELLE

DEPUIS 1947

SAB BRÖCKSKES GMBH & CO. KG

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^2 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:	Quality management system acc. to DIN EN ISO 9001 for every manufacturing field Environmental management system acc. to DIN EN ISO 14001 Occupational health and safety management acc. to NLF/ILO-OSH and DIN ISO 45001 Energy management system acc. to DIN EN ISO 50001

CATLINE CAT 6A S - IE CONNECTION CABLE

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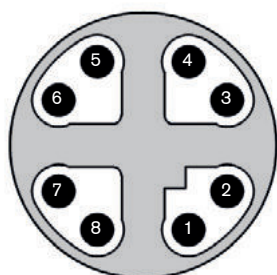with moulded M12 male connector assembly at both sides**

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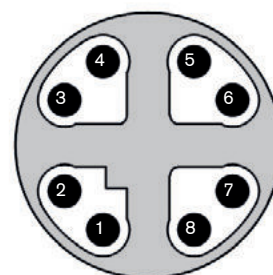
Technical Data:

Temperature range:	-40 °C to +70 °C
Voltage:	48 V
Protection class:	IP67 in stretched condition
Connection side 1:	M12 X-coded, male connector, straight, moulded with vibration seal
Connection side 2:	M12 X-coded, male connector, straight, moulded with vibration seal
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:* *continuously flexible:*	10 x d 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	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0
15,0 m	0 1 5 0 0
20,0 m	0 2 0 0 0
25,0 m	0 2 5 0 0

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:* *continuously flexible:*	5 x d 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	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0
15,0 m	0 1 5 0 0
20,0 m	0 2 0 0 0
25,0 m	0 2 5 0 0

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:* *continuously flexible:*	5 x d 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

1... ...8

1... ...8

item no. with length code	
length	item no.: S0667-4026-_ _ _ _ _
0,5 m	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0
15,0 m	0 1 5 0 0
20,0 m	0 2 0 0 0
25,0 m	0 2 5 0 0

S PN 667 - PN CONNECTION CABLE

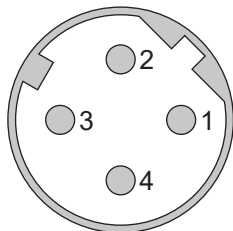**Profinet cable, suitable for cable tracks type C, with moulded M12 connector at both sides**

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

Technical Data:

Temperature range:	-40 °C to +70 °C
Voltage:	25 V
Protection class:	IP67 in stretched condition
Connection side 1:	M12 D-coded, straight, moulded with vibration seal
Connection side 2:	M12 D-coded, straight, moulded with vibration seal
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:* *continuously flexible:*	5 x d 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	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0
15,0 m	0 1 5 0 0
20,0 m	0 2 0 0 0
25,0 m	0 2 5 0 0

ETHERNET CABLES

S PN 667 - PN CONNECTION CABLE

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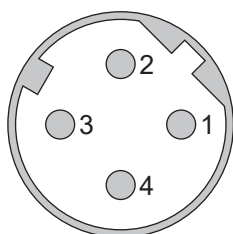with moulded M12 connector and mounted RJ45 connector**

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:* *continuously flexible:*	5 x d 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

1... ...8

item no. with length code	
length	item no.: S1667-4028-_ _ _ _ _
0,5 m	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0
15,0 m	0 1 5 0 0
20,0 m	0 2 0 0 0
25,0 m	0 2 5 0 0

SPECIAL CABLES
SAB FRANCE
www.sab-cables.com

CATLINE CAT. 6A S - IE CONNECTION CABLE

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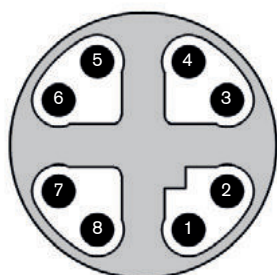with moulded M12 connector and mounted RJ45 connector**

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:* *continuously flexible:*	5 x d 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	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0
15,0 m	0 1 5 0 0
20,0 m	0 2 0 0 0
25,0 m	0 2 5 0 0

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:

Temperature range:	-20 °C to +70 °C
Connection side 1:	RJ45 connector, mounted, Cat. 6A, 8-pole with cable gland
Connection side 2:	RJ12 connector, mounted
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:* *continuously flexible:*	5 x d 15 x d

item no. with length code	
length	item no.: S1677-4044-_ _ _ _ _
0,5 m	0 0 0 5 0
1,0 m	0 0 1 0 0
2,0 m	0 0 2 0 0
3,0 m	0 0 3 0 0
5,0 m	0 0 5 0 0
7,5 m	0 0 7 5 0
10,0 m	0 1 0 0 0

www.sab-cables.com

ETHERNET CABLE

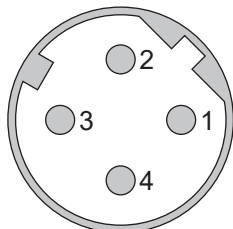**Helix cable with axial outlets and M12 D-coded male connectors**
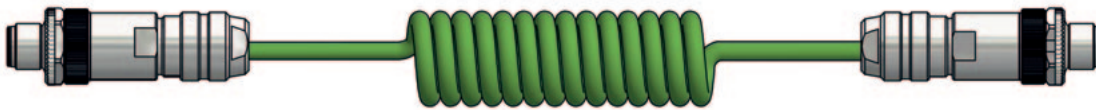
Application: Cat. 5 Profinet cable as helix cable for mobile use on machines and systems.

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!

SPECIAL CABLES
SAB FRANCE
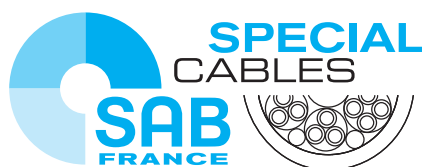
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