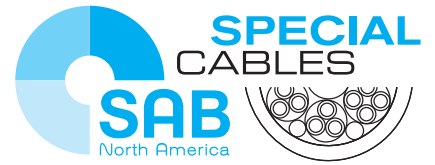
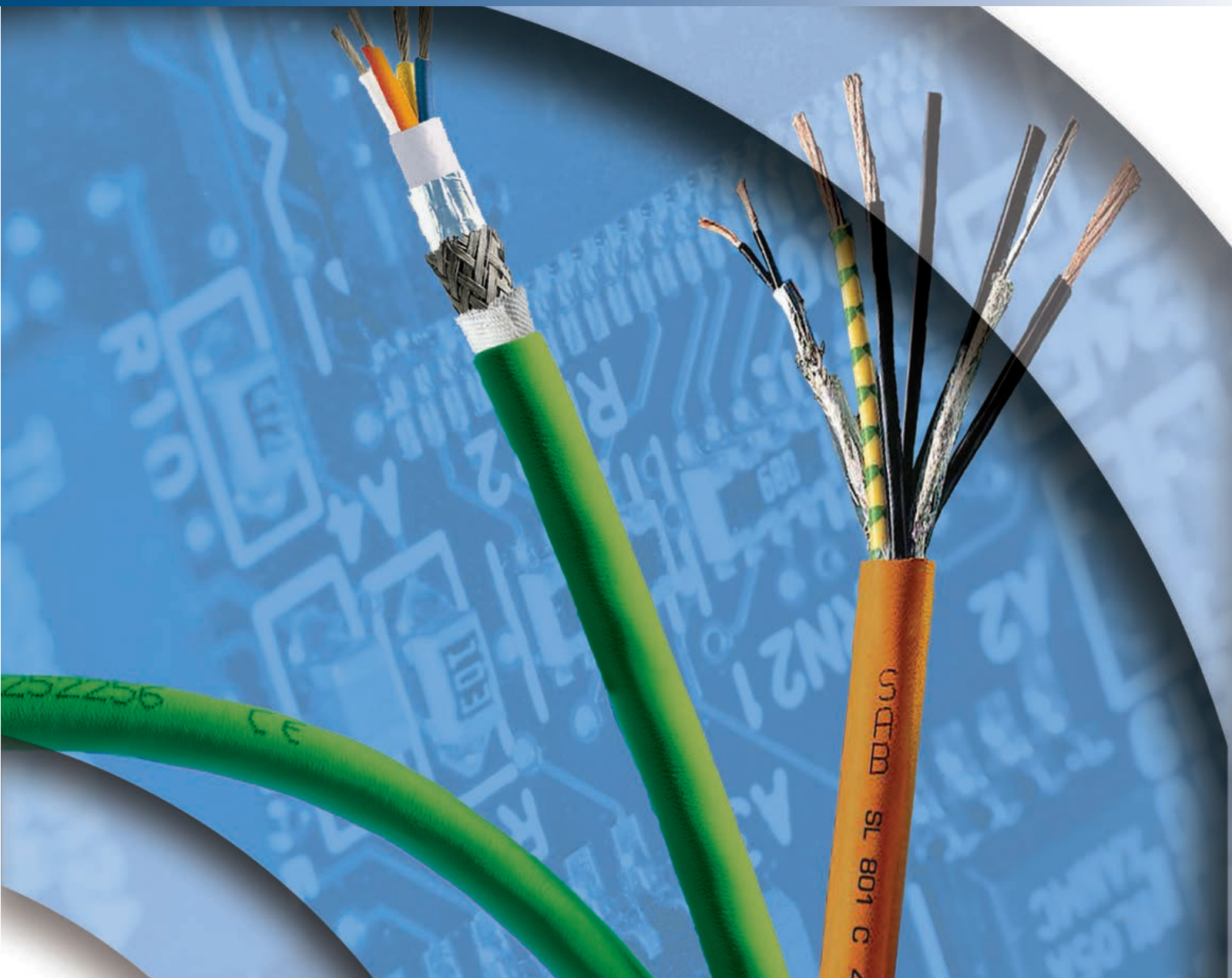


SPECIAL CABLES | CONTROL CABLES
CONTINUOUS FLEX CABLES | CABLE HARNESSING
TEMPERATURE MEASUREMENT



SAB CABLES FOR AUTOMATION



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SAB NORTH AMERICA

ABOUT US

SAB North America is a focused supplier for the automation, industrial machinery, medical, high temperature, and robotics industries, providing cable solutions that meet, exceed, and set new standards in the flexible cable market. In addition to flexible cable products, we offer an extensive inventory of high-quality cable accessories including cord grips, grounding glands and other accessories that complement our flexible control and automation cables.

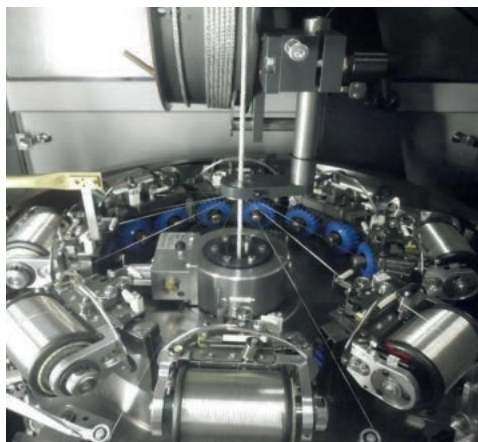
Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems. Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements.



High-speed data exchange has become the cornerstone of factory automation as manufacturers harness real-time information to improve efficiencies and processes. Networking the “smart factory” takes robust Ethernet cables that can stand up to repetitive motion of robotic arms and other moving equipment — or even, mobile applications like rail cars. But unlike static cables typically found in building infrastructures, industrial Ethernet cables must endure inhospitable conditions and mechanical stresses. Our flexible bus cables are designed for industrial applications that require power, sensor and data communications. We also offer a complete range of halogen-free bus cables.

SAB's level of speed and service as a supplier is unmatched. S lives up to its name in not only flexible cable but also flexible manufacturing. Special cables can be designed, manufactured and delivered in just 6-8 weeks, and even faster in special circumstances!



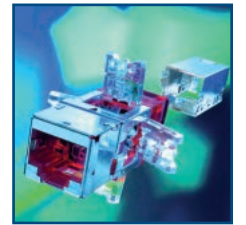
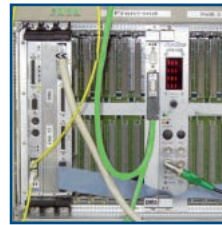
SAB Service Advantage...We make it Easy

- Cut to length with no cut charges
- Prepaid freight within US for orders over \$2,500
- Specialty cable designs (1500 ft minimum)
- No minimum on orders
- Free drop shipments (no surcharges)
- 24-hour shipments from stock
- Cord Grips for securing cables

SAB TRAY CABLE

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SAB developed a variety of cable solutions due to the strong innovative forces of the automation industry. Depending on the application, we are able to offer CAT 5e, CAT 6, CAT 6A, CAT 7, and CAT 7A cable solutions for flexible and continuous flex use, for chemical and thermal stress as well as special cable constructions for reeling and robotic applications. Our highly flexible robot cable USB 2.0 and USB 3.0 was especially developed for high frequency data transmission under extreme industrial application conditions.

CAT 5	1 MHz-100 MHz bandwidth
CAT 5e	1-250 MHz bandwidth
CAT 6	1-250 MHz bandwidth
CAT 6A	1-500- MHz bandwidth in distances up to 100m in fixed installations
CAT 7	600-MHz bandwidths for runs up to 100m
CAT 7A	1,000-MHz bandwidths for runs up to 100m
USB 2.0	Transmission lengths up to 10m
USB 3.0	Transmission lengths up to 3m

SAB CABLES FOR AUTOMATION

PROFINET CAT 5 CABLES



SAB North America CAT 5



SAB has a full line of Profinet/CAT 5 cables for various applications. We offer stationary, flexible, and continuous flex cables as well as torsional, reeling, and halogen-free rated CAT 5 cables. For industrial areas, a PUR jacket is recommended for improved abrasion and oil resistance. Profinet and CAT 5 cables are designed for data rates of 1-100 Mhz.

Part Number	Type/ Application		dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km
				inches	mm		
6552202	PN 655	Type A	22/2pr (solid, BC)	0.232	5.9	34	58.0
6612202	PN 661	Type B	22/2pr (≈7/30, BC)	0.260	6.6	47	58.0
6792604	PN 679	Type B	26/4pr (≈7/34,TC)	0.287	7.3	38	148.0
6679001	S PN 667	Type C	22/2pr (≈19/34,TC)	0.256	6.5	39	58.8
6762404	S PN 676	Type C	24/4pr (≈19/36,TC)	0.327	8.3	53	145.0
6812604	S PN 681	Type C	26/4pr (≈19/38,TC)	0.283	7.2	39	145.0
6689001	RT PN 668	Torsion	22/2pr (≈19/34,TC)	0.276	7.0	42	58.0
6899001	DR PN 689 P	Reeling	26/4pr (≈19/38,TC)	0.342	8.7	57	39.0

Construction:	PN 655 Type A stationary	PN 661 Type B flexible	PN 679 Type B flexible	S PN 667 Type C flexing	S PN 676 Type C flexing	S PN 681 Type C flexing	RT PN 668 torsion	DR PN 689 P Highflex reeling
Part number:	6552202	6612202	6792604	6679001	6762404	6812604	6689001	6899001
Insulation:	PE, L/MD*	PE, L/MD*	PE, L/MD*	special polymer	SABIX®	SABIX®	PE	SABIX®
Color code:	code #1	code #1	code #2	code #1	code #2	code #2	code #1	code #2
Wrapping:	PETP foil tape	PETP foil tape	PETP foil tape	PETP foil tape	non-woven tape	non-woven tape	woven tape	PETP foil tape
Inner jacket:	-	thermoplastic	-	thermoplastic	-	-	-	SABIX®
Wrapping:	-	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape
Shield:	tinned copper braid		tinned copper braid		tinned copper braid		tinned copper braid	
Wrapping:	-	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape
Outer jacket:	PVC	SABIX®	PUR	PUR	PUR	PUR	PUR	PUR†
Jacket color:	green (similar to RAL 6018)		green (similar to RAL 6018)		green (similar to RAL 6018)			black

* L/MD acc. to EN 50290-2-23

† Jacket is re-inforced PUR/supporting braid/PUR

Technical data:	PN 655 Type A stationary	PN 661 Type B flexible	PN 679 Type B flexible	S PN 667 Type C flexing	S PN 676 Type C flexing	S PN 681 Type C flexing	RT PN 668 torsion	DR PN 689 P Highflex reeling
Approvals:	UL AWM, CE, EAC		CE, EAC	UL & CSA AWM, CE, EAC		CE, EAC	CE, EAC	CE, EAC
Peak operating voltage VDE:	max. 350 V	max. 350 V	max. 350 V	max. 350 V	max. 350 V	max. 350 V	max. 350 V	max. 350 V
Voltage UL:	300 V	300 V	-	300 V	300 V	-	-	-
Test voltage:								
conductor/conductor:	2000 V	2000 V	1500 V	2000 V	1500 V	1500 V	1500 V	1500 V
conductor/shield:	2000 V	2000 V	2000 V	2000 V	1200 V	1200 V	1200 V	1200 V
Temperature range VDE	UL: up to +80°C	UL: up to +75°C		UL: up to +80°C	UL: up to +80°C			
fixed:	-30°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +90°C	-40°C to +90°C	-40°C to +70°C	-40°C to +90°C
flexible:	-5°C to +70°C	-30°C to +70°C	-40°C to +70°C	-40°C to +70°C	-30°C to +90°C	-30°C to +90°C	-30°C to +70°C	-30°C to +90°C
Minimum bend radius								
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	-	12 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.
flexing (torsion angle):	-	-	-	15 x O.D.	12 x O.D.	12 x O.D.	(± 180°/m)	12 x O.D.
Characteristic impedance:	100Ω ± 5Ω	100Ω ± 5Ω	100Ω ± 10Ω	100Ω ± 5Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω
	x Ω ± x Ω meets the electrical & transmission requirements with high frequency acc. to EN 50288-2-2 +VDE 0819-2-2 (CAT 5 acc. to EN 50173-1)							
Data rate:	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz	1 - 100 MHz
Zero halogen:	acc. to IEC 60754-1 + VDE 0482-754-1							
Oil resistance:	yes ¹	-	yes ²	yes ²	yes ³	yes ²	yes ²	yes ²
RoHS	yes - acc. to RoHS directive of the European Union							

¹ Oil resistance acc. to internal standard.

Please refer to full line catalog for more details.

² TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2

³ TMPU acc. to DIN VDE 0282 part 10 +HD 22.10

Color Code:

code #1	blue, yellow, white, orange
code #2	blue/white #1, orange/white #2, green/white #3, brown/white #4
code #3	blue, yellow, white, orange + 4 black #d
code #4	orange/white-orange, green/white-green
code #5	blue/white-blue, orange/white-orange, green/white-green, brown/white-brown
code #6	blue/white-blue, orange/white-orange, green-white/green, brown/white-brown + 4 black #d

SAB CABLES FOR AUTOMATION

PROFINET CAT 5E CABLES



SAB North America CAT 5e



SAB has flexible CAT 5e cables with PLTC-ER, CMG and UL AWM 600V. Also included are LSZH cables for the rail industry that meet DIN standards and ABS approvals for marine applications. CAT 5e cables are designed for data rates of 1-250 Mhz.

CATLine

Part Number	Type/ Application		dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft
				inches	mm	
6752202	PN 675	Flexible	22/2pr (≈7/30, BC)	0.310	7.9	45
6752204	PN 675	Flexible	22/4pr (≈7/30, BC)	0.330	8.4	59
15679002	CATLine CAT 5e R	Rail	24/2pr (≈14/34, BC)	0.205	5.2	28
15674421		Rail	24/4pr (≈14/34, BC)	0.315	8.0	47
15679004		Rail	22/2pr (≈7/30, BC)	0.232	5.9	35
15479001	CATLine CAT 5e BL	Shipboard	24/2pr (≈7/32, BC)	0.224	5.7	32
15479002		Shipboard	22/2pr (≈7/30, BC)	0.252	6.4	41
15474621		Shipboard	26/4pr (≈7/34, BC)	0.287	7.3	43

Construction:	PN 675 Type B flexible	PN 675 Type B flexible	CATLine CAT 5e R rail	CATLine CAT 5e R rail	CATLine CAT 5e R rail	CATLine CAT 5e BL shipboard	CATLine CAT 5e BL shipboard	CATLine CAT 5e BL shipboard
Part number:	6612202	6752204	15679002	15679004	15674421	15479001	15479002	15474621
Insulation:	Polyolefin	PFA/PP	PE	PE	PE	PE	Special Polymer	Special Polymer
Color code:	code #4	code #5	code #1	code #1	code #5	code #1	code #1	code #5
Wrapping:	Polyester tape	Polyester tape	PETP tape	PETP tape	PETP tape	-	-	-
Inner jacket:	-	-	-	-	-	-	-	-
Wrapping:	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape
Shield:	24 AWG (7/32) TC drain wire		tinned copper braid			tinned copper braid		
Wrapping:	-	-	-	-	-	-	-	-
Outer jacket:	PVC	PVC	special SABIX®	special SABIX®	special SABIX®	special SABIX®	special SABIX®	special SABIX®
Jacket color:	Teal		green (similar to RAL 6018)			black (RAL 9005)		

* LMD acc. to DIN VDE 0819 part 103

Technical data:	PN 675 Type B flexible	PN 675 Type B flexible	CATLine CAT 5e R rail	CATLine CAT 5e R rail	CATLine CAT 5e R rail	CATLine CAT 5e BL shipboard	CATLine CAT 5e BL shipboard	CATLine CAT 5e BL shipboard
Approvals:	c(UL) CMG, (UL) PLTC-ER, UL AWM		CE, EAC	CE, EAC	CE, EAC	ABS & UL AWM, CE		
Peak operating voltage VDE:	max. 350V	max. 350V	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V
Voltage UL:	600V	600V	-	-	-	300V	300V	300V
Test voltage:	conductor/conductor 1500 V - conductor/shield 1200 V					conductor/conductor 2000 V - conductor/shield 2000 V		
Temperature range VDE	UL: up to +80°C	UL: up to +80°C				UL: up to +75°C	UL: up to +75°C	UL: up to +75°C
fixed:	-40°C to +80°C	-40°C to +80°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
flexible:	-25°C to +80°C	-25°C to +80°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Minimum bend radius								
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	12 x O.D.	12 x O.D.	12 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.
Characteristic impedance:	100Ω ± 15Ω (0.722-100.0 MHz)		100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω
	meets the electrical & transmission requirements with high frequency acc. to EN 50288-2-2/CAT 5							
Data rate:	1 - 250 MHz							
Zero halogen:	-	-	yes ¹	yes ¹	yes ¹	acc. to IEC 60754-1 + VDE 0482-754-1		
Burning Characteristics:	-	-	No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 + EN 50305 / VDE 0260-305 section 9.1.1 + 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2			flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A, UL Horizontal Flame Test FT2, UL AWM Style 21080		
Smoke density:	-	-	acc.to IEC 61034 + VDE 0482-1034					
Toxicity:	-	-	acc. to EN 50305 + VDE 0260-305			-	-	-
Oil resistance:	Oil Res I	Oil Res I	-	-	-	-	-	-
RoHS	yes - acc. to RoHS directive of the European Union							

Color Code:	
code #1	blue, yellow, white, orange
code #2	blue/white #1, orange/white #2, green/white #3, brown/white #4
code #3	blue, yellow, white, orange + 4 black #d
code #4	orange/white-orange, green/white-green
code #5	blue/white-blue, orange/white-orange, green/white-green, brown/white-brown
code #6	blue/white-blue, orange/white-orange, green-white/green, brown/white-brown + 4 black #d

¹ acc. to DIN EN 50306-1 + DIN EN 50264-1.
Development of HCl is ≤ 0.5% acc. to IEC 60754-1
pH-value is ≥ 4.3 acc. to IEC 60754-2
Conductivity is ≤ 10.0 μS/mm acc. to IEC 60754-2.
Fluoric content ≤ 0.1% acc. to IEC 60684-2



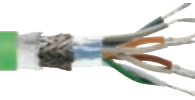
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SAB CABLES FOR AUTOMATION

CAT 6 CABLES



SAB North America CAT 6



SAB has a full line of CAT 6 cables for various applications. We offer flexible and continuous flex cables as well as torsional, reeling, Rail, and halogen-free options. For industrial areas, a PUR jacket is recommended for improved abrasion and oil resistance. CAT 6 cables are designed for data rates of 1-250 Mhz.

CATLine

Part Number	Type/ Application		dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft
				inches	mm	
6912604	GE 691	flexible	26/4pr (≈7/34, TC)	0.354	9.0	49
16774630	CATLine CAT 6 S	flexing	26/4pr (≈7/34, BC)	0.280	7.1	38
16874630	CATLine CAT 6 RT	torsion	26/4pr (≈7/34, BC)	0.280	7.1	38
6949001	RT GE 694	torsion	26/4pr (≈19/18, BC) + 18/4c (30/32, BC)	0.496	12.6	128

Construction:	GE 691 <i>flexible</i>	CATLine CAT 6 S <i>flexing</i>	CATLine CAT 6 RT <i>torsion</i>	RT GE 694 <i>hybrid torsion</i>
Part number:	6912604	16774630	16874630	6949001
Insulation:	PE	special polymer	special polymer	FEP/TPE
Color code:	code #2	code #5	code #5	code #6
Wrapping (pairs):	PETP/alu foil	-	-	alu foil/braid
Wrapping:	non-woven tape	non-woven tape	non-woven tape	-
Wrapping:	aluminum foil tape	aluminum foil tape	aluminum foil tape	-
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	-
Wrapping:	non-woven tape	non-woven tape	non-woven tape	non-woven tape
Outer jacket:	PUR	PUR	PUR	PUR
Jacket color:	green (similar to RAL 6018)	green (similar to RAL 6018)	green (similar to RAL 6018)	black (RAL 9005)

Technical data:	GE 691 <i>flexible</i>	CATLine CAT 6 S <i>flexing</i>	CATLine CAT 6 RT <i>torsion</i>	RT GE 694 <i>hybrid torsion</i>
Approvals:	CE	UL & CSA AWM, CE, EAC	UL, CSA, CE, EAC	CE
Peak operating voltage VDE:	max. 350 V	max. 90 V	max. 90V	max. 350 V
Voltage UL:	-	300 V	300 V	-
Test voltage:				
conductor/conductor:	1500 V	2000 V	2000 V	1500 V
conductor/shield:	1200 V	2000 V	2000 V	1200 V
Temperature range VDE		UL: up to +80°C	UL: up to +80°C	
fixed:	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-50°C to +90°C
flexible:	-30°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +90°C
Minimum bend radius				
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.
continuous flex:	-	15 x O.D.	15 x O.D.	-
torsion angle:	-	-	(± 180°/m)	(± 360°/m)
Characteristic impedance:	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	120Ω ± 10Ω
	x Ω ± x Ω meets the electrical & transmission requirements with high frequency acc. to EN 50288-10-2/ CAT 6			
Data rate:	1 - 250 MHz	1 - 250 MHz	1 - 250 MHz	1 - 250 MHz
Zero halogen:	yes ¹	yes ¹	yes ¹	-
Burning characteristics:	-	yes ²	yes ²	-
Oil resistance:	yes ³	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2		yes ³
RoHS	yes - acc. to RoHS directive of the European Union			

¹ acc. to IEC 60754-1 + VDE 0482-754-1

² flame retardant and self-extinguishing acc. to IEC 60332-1 and VDE 0482-332-1-2. UL Horizontal Flame Test FT2

³ TMPU acc. to DIN VDE 0282 part 10 + HD 22.10

Color Code:	
code #1	blue, yellow, white, orange
code #2	blue/white #1, orange/white #2, green/white #3, brown/white #4
code #3	blue, yellow, white, orange + 4 black #d
code #4	orange/white-orange, green/white-green
code #5	blue/white-blue, orange/white-orange, green/white-green, brown/white-brown
code #6	blue/white-blue, orange/white-orange, green-white/green, brown/white-brown + 4 black #d



SAB CABLES FOR AUTOMATION

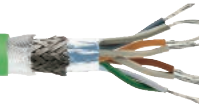
CAT 6A CABLES



SAB has a full line of CAT 6A cables for various applications. We offer flexible and continuous flex cables. Also included are torsion, reeling, Rail, shipboard, and halogen free options. For industrial areas, a PUR jacket is recommended for improved abrasion and oil resistance. CAT 6A cables are designed for data rates of 1-500MHz.



SAB North America CAT 6A



Part Number	Type/ Application		dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft
				inches	mm	
16314631	CATLine CAT 6A HT	High Temperature	26/4pr (≈7/34, BC)	0.224	5.7	35
16774631	CATLine CAT 6A S	Flexing	26/4pr (≈7/34, BC)	0.280	7.1	38
16874631	CATLine CAT 6A RT	Torsion	26/4pr (≈7/34, BC)	0.280	7.1	38
16394651	CATLine CAT 6A DR	Reeling	26/4pr (≈7/34, BC)	0.343	8.7	54
16674621	CATLine CAT 6A R	Rail	26/4pr (≈18/38, BC)	0.268	6.8	37
16474621	CATLine CAT 6A BL	Shipboard	26/4pr (≈7/34, BC)	0.287	7.3	43
16474421	CATLine CAT 6A BL	Shipboard	24/4pr (≈7/32, BC)	0.327	8.3	54

Construction:	CATLine CAT 6A HT <i>high temperature</i>	CATLine CAT 6A S <i>flexing</i>	CATLine CAT 6A RT <i>torsion</i>	CATLine CAT 6A DR <i>reeling</i>	CATLine CAT 6A R <i>rail</i>	CATLine CAT 6A BL <i>shipboard</i>	CATLine CAT 6A BL <i>shipboard</i>
Part number:	16314631	16774631	16874631	16394651	16674621	16474621	16474421
Insulation:	FEP	Special Polymer	Special Polymer	Special Polymer	PE	Special Polymer	Special Polymer
Color code:	code #2	code #5	code #5	code #5	code #5	code #5	code #5
Wrapping:	PETP tape	non-woven tape	non-woven tape	non-woven tape	-	-	-
Wrapping:	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid
Wrapping:	-	non-woven tape	non-woven tape	non-woven tape	-	-	-
Outer jacket:	FEP	PUR	PUR	PUR*	special SABIX®	special SABIX®	special SABIX®
Jacket color:	green (similar to RAL 6018)			black (RAL 9005)	green (≈ RAL 6018)	black (RAL 9005)	black (RAL 9005)

* Jacket is re-enforced, PUR/supporting braid/PUR

Technical data:	CATLine CAT 6A HT <i>high temperature</i>	CATLine CAT 6A S <i>flexing</i>	CATLine CAT 6A RT <i>torsion</i>	CATLine CAT 6A DR <i>reeling</i>	CATLine CAT 6A R <i>rail</i>	CATLine CAT 6A BL <i>shipboard</i>	CATLine CAT 6A BL <i>shipboard</i>
Approvals:	UL AWM, CE, EAC	UL & CSA AWM, CE, EAC		CE, EAC	CE, EAC	ABS & UL AWM	ABS & UL AWM
Peak operating voltage VDE:	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V
Voltage UL:	600V	300V	300V	-	-	300V	300V
Test voltage:	conductor/conductor 2000 V - conductor/shield 2000 V			750V / 750V	1500V / 1200V	2000V / 2000V	2000V / 2000V
Temperature range VDE	UL: up to +150°C	UL: up to +80°C	UL: up to +80°C			UL: up to +75°C	UL: up to +75°C
fixed:	-90°C to +180°C	-40°C to +70°C	-40°C to +70°C	-50°C to +90°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
flexible:	-55°C to +180°C	-40°C to +70°C	-40°C to +70°C	-40°C to +90°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Minimum bend radius							
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.	12 x O.D.	10 x O.D.	10 x O.D.
continuous flex:	-	15 x O.D.	15 x O.D.	12 x O.D.	-	-	-
torsion angle:	-	-	(± 180°/m)	-	-	-	-
Characteristic impedance:	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω
	x Ω ± x Ω meets the electrical & transmission requirements with high frequency acc. to EN 50288-10-2/ CAT 6A						
Data rate:	1 - 500 MHz						
Zero halogen:	-	acc. to IEC 60754-1 to VDE 0482-754-1			yes ¹	acc. to IEC 60754-1 + VDE 0482-754-1	
Burning Characteristics:	yes ²	yes ³	yes ³	-	yes ⁴	yes ⁵	yes ⁵
Smoke density:	-	-	-	-	acc. to IEC 61034 + VDE 0482-1034		
Toxicity:	-	-	-	-	acc. to EN 50305	-	-
Tensile strength:	-	-	-	200 max. N	-	-	-
Oil resistance:	very good	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2			-	-	-
Additional standards:	-	-	-	Weather resistance	-	IEC 60754-2 ⁶	IEC 60754-2 ⁶
RoHS	yes - acc. to RoHS directive of the European Union						

¹ acc. to EN 50306-1 + EN 50264-1. Development of HCl is ≤ 0.5% acc. to IEC 60754-1. pH-value is ≥ 4.3 acc. to IEC 60754-2.

Conductivity is ≤ 10.0 μS/mm acc. to IEC 60754-2. Fluoric content ≤ 0,1% acc. to IEC 60684-2

² flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1

³ flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL Horizontal Flame Test FT2

⁴ No flame propagation acc. to IEC 60332-3-24 / VDE 0482-332-3-24 + EN 50305 / VDE 0260-305 section 9.1.1 + 9.1.2.

Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2

⁵ flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22

Cat. A, UL Horizontal Flame Test FT2, UL AWM Style 21080

⁶ In compliance with IEC 60754-2 + VDE 0482-754-2- no development of corrosive conflagration gases

Color Code:	
code #2	blue/white #1, orange/white #2, green/white #3, brown/white #4
code #5	blue/white-blue, orange/white-orange, green/white-green, brown/white-brown

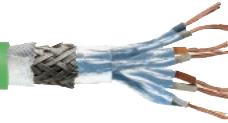


SAB CABLES FOR AUTOMATION

CAT 7A CABLES



SAB North America CAT 7A



SAB offers CAT 7A cables for various applications. We offer continuous flex, torsion, reeling, Rail and Shipboard cables and all are halogen free. For industrial areas, a PUR jacket is recommended for improved abrasion and oil resistance. CAT 7A cables are designed for data rates of 1-1000 Mhz.

CATLine

Part Number	Type/ Application	dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft
			inches	mm	
17774631	CATLine CAT 7A S Flexing	26/4pr (≈7/34, BC)	0.334	8.5	54
17874631	CATLine CAT 7A RT Torsion	26/4pr (≈7/34, BC)	0.350	8.9	54
17394651	CATLine CAT 7A DR Reeling	26/4pr (≈7/34, BC)	0.413	10.5	79
17674621	CATLine CAT 7A R Rail	26/4pr (≈18/38, BC)	0.307	7.8	50
17474621	CATLine CAT 7A BL Shipboard	26/4pr (≈7/34, BC)	0.350	8.9	57
17474421	CATLine CAT 7A BL Shipboard	24/4pr (≈7/32, BC)	0.413	10.5	78
17779003	CATLine CAT 7A S Cleanroom	26/4pr (≈7/34, BC)	0.354	9.0	57

Construction:	CATLine CAT 7A S flexing	CATLine CAT 7A RT torsion	CATLine CAT 7A DR reeling	CATLine CAT 7 R rail	CATLine CAT 7A BL shipboard	CATLine CAT 7A BL shipboard	CATLine CAT 7A S cleanroom
Part number:	17774631	17874631	17394651	17674621	17474621	17474421	17779003
Insulation:	Special Polymer	Special Polymer	Special Polymer	PE	Special Polymer	Special Polymer	Special Polymer
Color code:	blue/white-blue, orange/white-orange, green/white-green, brown/white-brown						
Wrapping (pairs):	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape
Wrapping:	alum.non-woven	alum.non-woven	alum.non-woven	-	-	-	alum.non-woven
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid
Wrapping:	non-woven tape	non-woven tape	non-woven tape	-	-	-	non-woven tape
Outer jacket:	PUR	PUR	PUR*	special SABIX®	special SABIX®	special SABIX®	TPE
Jacket color:	green (similar to RAL 6018)		black (RAL 9005)	Green (≈ RAL 6018)	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)

* Jacket is re-reinforced, PUR/supporting braid/PUR

Technical data:	CATLine CAT 7A S flexing	CATLine CAT 7A RT torsion	CATLine CAT 7A DR reeling	CATLine CAT 7 R rail	CATLine CAT 7A BL shipboard	CATLine CAT 7A BL shipboard	CATLine CAT 7A S cleanroom
Approvals:	UL & CSA AWM, CE, EAC		CE, EAC	CE, EAC	ABS & UL AWM, CE, EAC		UL AWM, CE, EAC
Peak operating voltage VDE:	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V	max. 90V
Voltage UL:	300V	300V	-	-	300V	300V	300V
Test voltage:	cond/cond 2000 V - cond/shield 2000 V		750V / 750V	1500V / 1200V	2000V / 2000V	2000V / 2000V	2000V / 2000V
Temperature range VDE	UL: up to +80°C		UL: up to +80°C		UL: up to +75°C	UL: up to +75°C	UL: up to +80°C
fixed:	-40°C to +70°C	-40°C to +70°C	-50°C to +90°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
flexible:	-40°C to +70°C	-40°C to +70°C	-40°C to +90°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-40°C to +70°C
Minimum bend radius							
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	10 x O.D.	12 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.
continuous flex:	15 x O.D.	-	12 x O.D.	-	-	-	15 x O.D.
torsion angle:	-	(± 180°/m)	-	-	-	-	-
Characteristic impedance:	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 10Ω	100Ω ± 5Ω
	x Ω ± x Ω meets the electrical & transmission requirements with high frequency acc. to EN 50288-9-2 / CAT 7A						
Data rate:	1 - 1000 MHz						
Zero halogen:	acc. to IEC 60754-1 + VDE 0482-754-1			yes ¹	acc. to IEC 60754-1 + VDE 0482-754-1		-
Burning Characteristics:	yes ⁴	yes ⁴	-	yes ⁶	yes ²	yes ²	yes ⁴
Smoke density:	-	-	-	acc. to IEC 61034 + VDE 0482-1034			
Toxicity:	-	-	-	acc. to EN 50305	-	-	-
Tensile strength:	-	-	200 max. N	-	-	-	-
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2			-	-	-	Oil 60°C ac. to UL 758
Additional standards:	-	-	-	-	IEC 60754-2 ³	IEC 60754-2 ³	air cleanliness class 1 ⁵
RoHS	yes - acc. to RoHS directive of the European Union						

¹ acc. to EN 50306-1 + DIN EN 50264-1. Development of HCl is ≤ 0.5% acc. to IEC 60754-1. pH-value is ≥ 4.3 acc. to IEC 60754-2. Conductivity is ≤ 10.0 μS/mm acc. to IEC 60754-2.

Fluoric content ≤ 0.1% acc. to IEC 60684-2

² flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A, UL Horizontal Flame Test FT2 UL AWM Style 21080

³ in compliance with IEC 60754-2 + VDE 0482-754-2. no development of corrosive conflagration gases

⁴ flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL Horizontal Flame Test FT2

⁵ acc. to DIN EN 14644-1, US Federal Standard 209 E

⁶ no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2.

Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2

SAB CABLES FOR AUTOMATION

SINGLE PAIR ETHERNET CABLE



SAB North America CATLine SPE



Single-Pair-Ethernet cables are specially designed for the increasing data transmission rates in automation. SAB CATLine cables can be used wherever harsh industrial conditions prevail, e.g. high temperatures, contamination by oils and aggressive chemicals. With a bandwidth of 1-600 MHz, the cables ensure safe and reliable data transmission.

Part Number	Type/ Application		dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft
				inches	mm	
17771630	CATLine SPE C-Track	cable track	26/2c (≈7/30, BC)	0.209	5.3	25
17871630	CATLine SPE Robot	robots	26/2c (≈7/34, BC)	0.209	5.3	25
17211620	CATLine SPE HT	high temperature	26/2c (≈7/34, BC)	0.193	4.9	25
17399003	CATLine SPE Rugged	indoor/outdoor use	26/2c (≈7/34, BC)	0.173	4.4	22

CATLine

Construction:	CATLine SPE C-Track <i>suitable for cable tracks</i>	CATLine SPE Robot <i>suitable for robots</i>	CATLine SPE HT <i>high temperature resistant</i>	CATLine SPE Rugged <i>indoor/outdoor use</i>
Part number:	17771630	17871630	17211620	17399003
Insulation:	Special Polymer	Special Polymer	TPFP	TPFP
Color code:	white, blue	white, blue	white, blue	white, blue
Inner Jacket:	SABIX®	SABIX®	TPFP	TPFP
Wrapping:	aluminum foil tape	aluminum foil tape	aluminum foil tape	aluminum foil tape
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid
Wrapping:	non-woven tape	non-woven tape	-	fleece
Outer jacket:	PUR	PUR	Besilen®	PUR
Jacket color:	green (similar to RAL 6018)	green (similar to RAL 6018)	green (similar to RAL 6018)	green (similar to RAL 6018)

Technical data:	CATLine SPE C-Track <i>suitable for cable tracks</i>	CATLine SPE Robot <i>suitable for robots</i>	CATLine SPE HT <i>high temperature resistant</i>	CATLine SPE Rugged <i>indoor/outdoor use</i>
Approvals:	UL, CE	UL, CE	UL, CE	CE
Peak operating voltage VDE:	max. 90V	max. 90V	max. 90V	max. 90V
Voltage UL:	300V	300V	600V	-
Test voltage:	conductor/conductor 2000V - conductor/shield 2000V			
Temperature range VDE	UL: up to +80°C	UL: up to +80°C	UL: up to +150°C	short term: +125°C
fixed:	-40°C to +70°C	-40°C to +70°C	-40°C to +180°C	-50°C to +90°C
flexible:	-40°C to +70°C	-40°C to +70°C	-25°C to +180°C	-45°C to +90°C
Minimum bend radius				
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	10 x O.D.	12 x O.D.
continuous flex:	15 x O.D.	15 x O.D.	-	-
torsion angle:	-	(± 180°/m)	-	-
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to CD IEC 61156-12 ED1 03/19. Bandwidth 1 - 600 MHz.			
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	-	-	-
Oil resistance:	very good - PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	-	-	very good - PUR, TPU acc. to EN 50363-10-2
Fuel Resistance:	-	-	-	good
Battery Acid Resistance:	-	-	-	good
UV Resistance:	-	-	-	acc. to HD 605 S1
Ozone Resistance:	-	-	-	acc. to EN 50396
Saltwater Resistance:	-	-	-	acc. to UL 1309
RoHS	yes - acc. to RoHS directive of the European Union			

SAB CABLES FOR AUTOMATION

USB 2.0 CABLES



SAB North America USB 2.0



SAB offers USB 2.0 continuous flex and torsion cables. The robot cable USB 2.0 was developed for high-frequency data transmission, collection, and transmission of data from the camera to the industrial PC. Applications include identifying parts and components, for visual inspection, welded seam control, or for the collection of bar codes or type tests. SAB USB cable guarantees excellent transmission characteristics for intelligent image processing with a transmission distance of up to 10 m under extreme industrial application conditions.

Part Number	Type/ Application		dimensions mm ²	Nominal outer Ø		Cable Weight ≈ lbs/mft
				inches	mm	
06010122	USB 2.0	Flexible	(2x0.22) ST + 2x0.50	0.268	6.8	40
06010222	USB 2.0 UL	Flexible	(2x0.22) ST + 2x0.50	0.276	7.0	43
06019001	USB 2.0 FRNC	Flexible	(2x0.22) ST + 2x0.50	0.268	6.8	42
06011022	USB 2.0 S	Cable Tracks	(2x0.22) ST + 2x0.50	0.276	7.0	40
06011122	USB 2.0 S UL/CSA	Cable Tracks	(2x0.22) ST + 2x0.50	0.283	7.2	44
06012022	USB 2.0 RT UL/CSA	Robots	(2x0.22) ST + 2x0.50	0.276	7.0	43

Construction:	USB 2.0 <i>flexible</i>	USB 2.0 UL <i>flexible</i>	USB 2.0 FRNC <i>flexible</i>	USB 2.0 S <i>cable tracks</i>	USB 2.0 S UL/CSA <i>cable tracks</i>	USB 2.0 RT UL/CSA <i>robots</i>
Part number:	06010122	06010222	06019001	06011022	06011122	06012022
Conductor:	bare copper strands (0.50 mm ²) / silver-plated strands (0.22 mm ²)					
Insulation:	SABIX®	SABIX®	SABIX®	SABIX®	SABIX®	SABIX®
Color code:	black, red (0.50 mm ²) / white, green (0.22 mm ²)					
Stranding:	2 x 0.22 mm ² wrapped with alu.foil, together with 0.5mm ²					
Wrapping:	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape	PTFE foil
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	wrapping with tinned copper round wires
Wrapping:	-	-	-	non-woven tape	non-woven tape	non-woven tape
Outer jacket:	PVC	PVC	SABIX®	PUR	PUR	PUR
Jacket color:	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)

Technical data:	USB 2.0 <i>flexible</i>	USB 2.0 UL <i>flexible</i>	USB 2.0 FRNC <i>flexible</i>	USB 2.0 S <i>cable tracks</i>	USB 2.0 S UL/CSA <i>cable tracks</i>	USB 2.0 RT UL/CSA <i>robots</i>
Approvals:	UL, CE, EAC	UL, CE, EAC	UL, CE, EAC	CE, EAC	UL, CSA, CE, EAC	UL, CSA, CE, EAC
Peak operating voltage VDE:	max. 350V	max. 350V	max. 350V	max. 350V	max. 350V	max. 350V
Voltage UL/CSA:	-	300V	-	-	300V	300V
Test voltage:						
conductor/conductor:	600V	2000V	1500V	600V	2000V	2000V
conductor/shield:	600V	2000V	1200V	600V	2000V	2000V
Temperature range VDE	UL: up to +80°C				UL: up to +80°C	
fixed:	-30°C to +70°C	-30°C to +70°C	-40°C to +90°C	-50°C to +90°C	-50°C to +90°C	-50°C to +90°C
flexible:	-5°C to +70°C	-5°C to +70°C	-30°C to +90°C	-40°C to +90°C	-40°C to +90°C	-40°C to +90°C
Minimum bend radius						
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	10 x O.D.	6 x O.D.	6 x O.D.	7.5 x O.D.
continuous flex:	-	-	-	7.5 x O.D.	7.5 x O.D.	10 x O.D.
torsion angle:	-	-	-	-	-	(± 180°/m)
Zero halogen:	-	-	acc. to IEC 60754-1 + VDE 0482-754-1			-
Burning Characteristics:	-	-	flame retardant and self-extinguishing acc.to IEC 60332-1-2 + VDE 0482-332-1-2	-	-	-
Oil resistance:	acc. to internal standard (O/29)		-	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2		
RoHS	yes - acc. to RoHS directive of the European Union					

SAB CABLES FOR AUTOMATION

USB 3.0 CABLES



SAB offers USB 3.0 flexible, continuous flex and torsion cables. The robot cable USB 3.0 was developed for high-frequency data transmission, collection, and transmission of data from the camera to the industrial PC. Applications include identifying parts and components, for visual inspection, welded seam control, or for the collection of bar codes or type tests. SAB USB 3.0 cable guarantees excellent transmission characteristics for intelligent image processing with a transmission distance of up to 3 m under extreme industrial application conditions. A medical-grade biocompatible, highly flexible, non-kinking cable is available for medical devices and can withstand the demanding cleaning, disinfection, and handling requirements.



Part Number	Type/ Application		dimensions AWG	Nominal outer Ø		Cable Weight ≈ lbs/mft	ohmic resistance at 20°C max. Ω/km	
				inches	mm		28 AWG	26 AWG
06042098	USB 3.0 S	Cable Tracks	28 (≈ 7/38)ST/3pr + 26 (≈ 1/38)/2c	0.240	6.1	30	223	140
06043098	USB 3.0 RT	Robots	28 (≈ 7/38)ST/3pr + 26 (≈ 1/38)/2c	0.252	6.4	34	223	140
06030078	USB 3.0	Flexible	28 (≈ 7/38)ST/2pr + 28 (≈ 7/38)/2c + 26 (≈ 7/34)/2c	0.240	6.1	32	223	140
06061018	USB 3.0 M	Medical	28 (≈ 7/38)ST/2pr + 28 (≈ 7/38)/2c + 26 (≈ 7/34)/2c	0.220	5.6	32	223	140

Construction:	USB 3.0 S cable tracks	USB 3.0 RT robots	USB 3.0 flexible	USB 3.0 M medical (biocompatible)
Part number:	06042098	06043098	06030078	06061018
Conductor:	silver-plated strands (AWG 28) - tinned copper strands (AWG 26)			
Insulation:	special polymer			FEP
Color code:	yellow, blue + orange, violet (USB 3.0), green, white (USB 2.0), red, black (power supply)			28 AWG: yellow, blue + orange, violet (USB 3.0), green, white (USB 2.0), 26 AWG: red, black (power supply)
Stranding:	pairs AWG 28 twisted to pairs and screened, all elements together		USB 3.0 twisted and screened pairs, USB 2.0 twisted pairs, all elements together	USB 3.0 twisted and screened pairs, USB 2.0 twisted together
Drain wire:	-	-	-	bare copper strands, fine wires
Wrapping:	non-woven tape	woven tape + non-woven tape	non-woven tape	alu. foil
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid
Wrapping:	non-woven tape	non-woven tape	non-woven tape	-
Outer jacket:	PUR	PUR	PVC	SABmed S
Jacket color:	black (RAL 9005)	black (RAL 9005)	black (RAL 9005)	gray (RAL 7000)

Technical data:	USB 3.0 S cable tracks	USB 3.0 RT robots	USB 3.0 flexible	USB 3.0 M medical (biocompatible)
Approvals:	UL AWM, CE, EAC	UL AWM, CE, EAC	UL AWM, CE, EAC	CE
Peak operating voltage VDE:	max. 350V	max. 350V	max. 350V	max. 50V
Voltage UL:	300V	300V	300V	-
Test voltage:				
conductor/conductor:	2000V	2000V	2000V	600V
conductor/shield:	2000V	2000V	2000V	600V
Temperature range VDE	UL: up to +80°C	UL: up to +80°C	UL: up to +80°C	
fixed:	-50°C to +90°C	-50°C to +90°C	-30°C to +70°C	-40°C to +180°C
flexible:	-40°C to +90°C	-40°C to +90°C	-5°C to +70°C	-25°C to +180°C
Minimum bend radius				
fixed:	5 x O.D.	5 x O.D.	5 x O.D.	5 x O.D.
flexible:	10 x O.D.	10 x O.D.	10 x O.D.	10 x O.D.
continuous flex:	12 x O.D.	15 x O.D.	-	-
torsion angle:	-	(± 360°/m)	-	-
Burning Characteristics:	flame retardant and self-extinguishing acc.to IEC 60332-1-2 + EN 60332-1-2			-
Oil resistance:	very good, TMPU acc. to EN 50363-10-2		very good - TM5 acc. to EN 50363-4-1	-
RoHS	yes - acc. to RoHS directive of the European Union			

SAB CABLES FOR AUTOMATION

DEVICENET & CAN-BUS CABLES

DeviceNet



DeviceNet™ is based on proven CAN-technology for rapid data exchange. Trunk Cable and Drop Cable configuration (Trunk Cable: main rope; Drop Cable: service cable). DeviceNet™ is a connection-oriented network. Application as highly flexible Bus cable.

Part Number	Type/ Application		dimensions AWG (stranding, copper)		Nominal outer Ø		Cable Weight ≈ lbs/mft
					inches	mm	
6502241	DN 650 Drop	Flexible	24/1pr(19/TC) + 22/1pr(19/TC)		0.260	6.6	50
6582241	DN 658 Drop	Flexing	24/1pr(FW/TC) + 22/1pr(FW/TC)		0.260	6.6	50
6589007	DN 658 Robot	Torsion	24/1pr(19/TC) + 22/1pr(48/TC)		0.272	6.9	43
6572241	SABIX® DN 657	Halogen-free	24/1pr(19/TC) + 22/1pr(19/TC)		0.260	6.6	50
6502781	DN 650 Trunk	Flexible	18/1pr(19/TC) + 15/1pr(19/TC)		0.449	11.4	112
6582781	DN 658 Trunk	Flexing	18/1pr(FW/TC) + 15/1pr(FW/TC)		0.449	11.4	123
6572781	SABIX® DN 657 Trunk	Halogen-Free	18/1pr(19/TC) + 15/1pr(19/TC)		0.449	11.4	123



Construction:	DN 650 Drop flexible	DN 658 Drop flexing	DN 658 Robot torsion	SABIX® DN 657 halogen-free	DN 650 Trunk flexible	DN 658 Trunk flexing	SABIX® DN 657 Trunk halogen-free
Part number:	6502241	6582241	6589007	6572241	6502781	6582781	6572781
Insulation:	foam skin PE/PVC		foam skin PE/SABIX®		foam skin PE/SABIX®		foam skin PE/SABIX®
Color code:	24AWG(white/light blue), 22AWG(black/red) & 18AWG(white/light blue), 15AWG(black/red)						
Wrapping (pairs):	individually shielded pairs with aluminum foil and tinned copper drain wire						
Wrapping:	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape	non-woven tape
Shield:	tinned copper braid		tinned copper braid		tinned copper braid		tinned copper braid
Outer jacket:	PVC	PUR	PUR	SABIX®	PVC	PUR	SABIX®
Jacket color:	Red lilac (RAL 4001)		Red lilac (RAL 4001)		Red lilac (RAL 4001)		Red lilac (RAL 4001)

Technical data:	DN 650 Drop flexible	DN 658 Drop flexing	DN 658 Robot torsion	SABIX® DN 657 halogen-free	DN 650 Trunk flexible	DN 658 Trunk flexing	SABIX® DN 657 Trunk halogen-free
Approvals:	UL AWM, CE, EAC			CE, EAC	UL AWM, CE, EAC		CE, EAC
Peak operating voltage VDE:	max. 350V	max. 350V	max. 350V	max. 350V	max. 350V	max. 350V	max. 350V
Voltage UL:	30V	30V	300V	-	30V	30V	-
Test voltage:	1500/1200V	2000/2000V	2000/2000V	1500/1200V	1500/1200V	2000/2000V	1500/1200V
Temperature range VDE	UL: up to +60°C	UL: up to +60°C	UL: up to +80°C	UL: up to +75°C	UL: up to +60°C	UL: up to +60°C	UL: up to +75°C
fixed:	-30°C to +70°C	-30°C to +70°C	-40°C to +80°C	-40°C to +70°C	-30°C to +70°C	-30°C to +70°C	-40°C to +70°C
flexible:	-5°C to +70°C	-5°C to +70°C	-30°C to +80°C	-30°C to +70°C	-5°C to +70°C	-5°C to +70°C	-30°C to +70°C
Minimum bend radius							
fixed:	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.
flexible:	15 x O.D.	15 x O.D.	15 x O.D.	15 x O.D.	15 x O.D.	15 x O.D.	15 x O.D.
torsion	-	-	(± 180°/m)	-	-	-	-
Characteristic impedance:	120Ω ± 10%	120Ω ± 10%	120Ω ± 10%	120Ω ± 10%	120Ω ± 10%	120Ω ± 10%	120Ω ± 10%
Zero halogen:	-	-	-	yes ¹	-	-	yes ¹
Oil resistance:	good	very good	very good	-	good	very good	-
RoHS	yes - acc. to RoHS directive of the European Union						

¹ acc. to IEC 60754-1 + VDE 0482-754-1

CAN-BUS



CAN-Bus according to ISO 11898. The CAN-Bus cable is applied for the exchange of digital information, control apparatus net (CAN) for faster data transmission/exchange. Application in power supply cable tracks, highly flexible data cables.



Construction:	CB 627 flexible	S CB 628 flexing	SABIX® CB 620 FRNC halogen-free
Insulation:	PE ¹	PE ¹	SABIX®
Color code:	acc. to DIN 47100		
Wrapping:	PETP foil	non-woven tape	PETP foil
Inner jacket:	-	SABIX®	-
Shield:	tinned copper braid		
Outer jacket:	PVC	PUR	SABIX®
Jacket color:	red lilac (RAL 4001)		

¹ PE 2Y11 acc. to DIN VDE 0207 part 2

Part Number	Type/ Application		dimensions AWG (stranding, copper)	Nominal outer Ø		Cable Weight ≈ lbs/mft
				inches	mm	
06272251	CB 627	Flexible	24/2c (16/34, BC)	0.240	6.1	30
06272341	CB 627	Flexible	22/2c (7/30, BC)	0.252	6.4	32
06272501	CB 627	Flexible	20/2c (17/32, BC)	0.303	7.7	45
06274251	CB 627	Flexible	24/2pr (16/34, BC)	0.287	7.3	41
06274341	CB 627	Flexible	22/2pr (7/30, BC)	0.303	7.7	45
06274501	CB 627	Flexible	20/2pr (17/32, BC)	0.378	9.8	70
06282251	S CB 628	Flexing	24/2c (34/38, BC)	0.311	7.9	52
06282341	S CB 628	Flexing	22/2c (42/38, BC)	0.327	8.3	56
06282501	S CB 628	Flexing	20/2c (68/38, BC)	0.343	8.7	54
06284251	S CB 628	Flexing	24/2pr (34/38, BC)	0.358	9.1	66
06284341	S CB 628	Flexing	22/2pr (42/38, BC)	0.378	9.6	71
06284501	S CB 628	Flexing	20/2pr (68/38, BC)	0.417	10.6	77
66202251	SABIX® CB 620 FRNC	Halogen-Free	24/2c (16/34, BC)	0.228	5.8	24

² acc. to IEC 60754-1 + VDE 0482-754-1

³ flame retardant and self extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2

⁴ acc. to IEC 61034 + VDE 0482-1034

⁵ no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D

Technical data:	CB 627 flexible	S CB 628 flexing	SABIX® CB 620 FRNC halogen-free
Approvals:	UL AWM, CE, EAC		
Peak operating voltage VDE:	max. 350V		
Voltage UL:	300V	300V	-
Test voltage:	2000V/2000V	2000V/2000V	1000V/1000V
Temperature range VDE	UL: up to +80°C	UL: up to +80°C	
fixed:	-30°C to +70°C	-40°C to +70°C	-40°C to +85°C
flexible:	-5°C to +70°C	-40°C to +70°C	-30°C to +70°C
Minimum bend radius			
flexible:	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.
Characteristic impedance:	120 Ω (95 - 140 Ω)		120 Ω (95 - 140 Ω)
Zero halogen:	-	yes ²	yes ²
Burning Characteristics:	yes ³	yes ³	yes ⁵
Smoke density:	-	-	-
Oil resistance:	very good	very good	very good
RoHS	yes - acc. to RoHS directive of the European Union		

SAB CABLES FOR AUTOMATION

PROFIBUS & INTERBUS CABLES

PROFIBUS



Profibus-DP: This Profibus variation, optimizing velocity and low installation costs, is especially developed for the communication between automation systems and decentralized peripheral equipment in the field area. Profibus-DP cable substitutes for conventional parallel transmission of signals with 24 V or 0-20 mA. The job profile for Profibus-DP type A according to EN 50170 is kept.

Part Number	Type/ Application		dimensions mm ²		Nominal outer Ø		Cable Weight ≈ lbs/mft
			inches	mm	inches	mm	
06322341	PB 632	Flexible	22/2c (7/30, BC)		0.295	7.5	38
03402631	PB 640 UL	Flexible	24/2c (19/36 BC)		0.315	8.0	42
06342341	S PB 634	Flexing	22/2c (7/30, BC)		0.299	7.6	39
06402611	S PB 640 UL	Flexing	24/2c (19/36 BC)		0.315	8.0	42
66302341	SABIX® PB 630 FRNC	Halogen-Free	22/2c (7/30, BC)		0.295	7.5	42

Construction:	PB 632	PB 640 UL	S PB 634	S PB 640 UL	SABIX® PB 630 FRNC
	<i>flexible</i>	<i>flexible</i>	<i>flexing</i>	<i>flexing</i>	<i>halogen-free</i>
Part number:	06322341	06402631	06342341	06402611	66302341
Insulation:	foam skin PE	foam skin PE	foam skin PE	foam skin PE	foam skin PE
Color code:	red, green	red, green	red, green	red, green	red, green
Wrapping:	-	-	non-woven tape	-	-
Inner Jacket:	-	PVC	-	SABIX®	-
Wrapping:	aluminum foil	aluminum foil	aluminum foil	aluminum foil	aluminum foil
Shield:	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid	tinned copper braid
Outer jacket:	PVC	PVC	PUR	PUR	SABIX®
Jacket color:	red lilac (RAL 4001)				

Technical data:	PB 632	PB 640 UL	S PB 634	S PB 640 UL	SABIX® PB 630 FRNC
	<i>flexible</i>	<i>flexible</i>	<i>flexing</i>	<i>flexing</i>	<i>halogen-free</i>
Approvals:	CE, EAC	UL AWM, CE, EAC	CE, EAC	UL AWM, CE, EAC	CE, EAC
Peak operating voltage VDE:	max. 350V	max. 350V	max. 350V	max. 350V	max. 350V
Voltage UL:	-	300V	-	30V	-
Test voltage:	1500V/1500V	1500V/1500V	1500V/1500V	1500V/1500V	1500V/1500V
Temperature range VDE:		UL: up to +80°C		UL: up to +80°C	
<i>fixed:</i>	-30°C to +70°C	-30°C to +70°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
<i>flexible:</i>	-5°C to +70°C	-5°C to +70°C	-40°C to +80°C	-30°C to +80°C	-30°C to +80°C
Minimum bend radius:					
<i>flexible:</i>	12 x O.D.	12 x O.D.	12 x O.D.	12 x O.D.	12 x O.D.
Characteristic impedance @ 3-20 Mhz:	150Ω ± 10%	150Ω ± 10%	150Ω ± 10%	150Ω ± 10%	150Ω ± 10%
Zero halogen:	-	-	-	yes ¹	
Burning characteristics:	yes ²	yes ²	-	yes ²	yes ²⁺³
Corrosivity:	-	-	-	-	yes ⁴
Smoke Density:	-	-	-	-	very low
Oil Resistance:	good	good	very good	very good	-
RoHS:	yes - acc. to RoHS directive of the European Union				



¹ acc. to IEC 60754-1 + VDE 0482-754-1
² flame retardant and self extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
³ no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D.
⁴ in compliance with IEC 60754-2 + VDE 0482-754-2, no development of corrosive conflagration gases

Interbus



The Interbus-S communication cable is a data cable in the sensor/actuator level of industrial communication.

Part Number	Type/ Application		dimensions mm ²		Nominal outer Ø		Cable Weight ≈ lbs/mft
					inches	mm	
06173221	IBS 617	Flexible	24/3pr (14/34, BC)		0.276	7.0	40
06176221	IBS 617	Flexible	24/3pr (≈14/34, BC) + 18/3c (≈30/32, BC)		0.354	9.0	71
06183251	S IBS 618	Flexing	24/3pr (16/32, BC)		0.335	8.5	55
06186251	S IBS 618	Flexing	24/3pr (≈14/34, BC) + 18/3c (≈56/34, BC)		0.362	9.2	81

Construction:	IBS 617 flexible	S IBS 618 flexing
Part Number:	06173221 / 06176221	06183251 / 6183251
Insulation:	PE ¹	PE ¹
Color code (24/3pr):	white/brown, green/yellow, gray/pink	
Color code (18/3c):	red, blue, green/yellow	
Wrapping:	PETP foil	non-woven tape
Shield:	tinned copper braid	tinned copper braid
Outer jacket:	PVC	PUR
Jacket color:	red lilac (RAL 4001)	



Technical data:	IBS 617 flexible	S IBS 618 flexing
Approvals:	UL AWM, CE, EAC	
Peak operating voltage VDE:	max. 350V	max. 350V
Voltage UL:	300V	300V
Test voltage:	2000V/2000V	2000V/2000V
Temperature range VDE	UL: up to +80°C	UL: up to +80°C
<i>fixed:</i>	-30°C to +70°C	-40°C to +70°C
<i>flexible:</i>	-5°C to +70°C	-40°C to +70°C
Minimum bend radius		
<i>flexible:</i>	7.5 x O.D.	7.5 x O.D.
Characteristic impedance @ 0.064 Mhz:	120 Ω ± 20%	120 Ω ± 20%
Characteristic impedance > 1 Mhz:	100 Ω ± 15%	100 Ω ± 15%
Zero halogen:	-	yes ²
Burning Characteristics:	yes ³	yes ³
Oil resistance:	very good	very good
RoHS	yes - acc. to RoHS directive of the European Union	

¹ PE 2Y11 acc. to EN 50290-2-23-1 + VDE 0819-103
² acc. to IEC 60754-1 + VDE 0482-754-1
³ flame retardant and self extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2



SAB CABLES FOR AUTOMATION

SERVO MOTOR CABLES

CONTINUOUS FLEX

SL841 C, SL 834 C & S 960 CY are UL recognized and CSA approved, continuous flex motor supply cable which have been designed for automated servo systems. SL 841 C & SL 834 C are halogen-free while SL 841 C includes one or two pair for feedback or brake. SL 841 C and SL 834 C are designed in accordance to Indramat and Siemens standards. S 960 CY is designed to meet Rockwell Automation specifications.



Construction:

Conductor: Class 6 bare copper
Insulation: TPE, PVC (S 960 CY)
Color Code: Black with white numbers plus G/Y ground. (pairs numbered)
Screen Pairs: Alu-foil and tinned copper braid
Screen Overall: Tinned copper braid
Jacket: Orange TMPU, Black PVC (S 960 CY)

Outstanding Features:

- Continuous flex design for long life
- Halogen-free (TPE/PU only)
- Extremely oil resistant
- In accordance with Siemens, Indramat, Rockwell Automation, Lenze and Fanuc
- Flexible at -40°C (TPE/PU only)

SL 841 C: Power with 2 Pairs

Part Number	Construction	Nominal outer Ø		Indramat
		inches	mm	
08410407	19/4c + 22/2pr	0.457	11.6	INK-0670
08410410	18/4c + 19/2pr	0.465	11.8	INK-0653
08410415	16/4c + 19/2pr	0.484	12.3	INK-0650
08410425	14/4c + 18/2 pr	0.571	14.5	INK-0602
08410441	12/4c + 18/1pr +16/1pr	0.685	17.4	INK-0603
08410461	10/4c + 18/1pr + 16/1pr	0.744	18.9	INK-0604
08410471	8/4c + 18/1pr + 16/1pr	0.803	20.4	INK-0605
08410485	6/4c + 16/2pr	1.024	26.0	INK-0606
08410490	4/4c + 16/2pr	1.157	29.4	INK-0607
08410495	2/4c + 16/2pr	1.232	31.3	INK-0667
08410496	1/4c + 14/2pr	1.504	38.2	INK-0668

SL 841 C: Power with 1 Pair

Part Number	Construction	Nominal outer Ø		Siemens
		inches	mm	
08411415* ¹	16/4c + 16/1pr	0.492	12.5	6FX8008-1BA11
08411425* ¹	14/4c + 16/1pr	0.524	13.3	6FX8008-1BA21
08411440* ¹	12/4c + 16/1pr	0.598	15.2	6FX8008-1BA31
08411460* ¹	10/4c + 16/1pr	0.654	16.6	6FX8008-1BA41
08411470* ¹	8/4c + 16/1pr	0.768	19.5	6FX8008-1BA51
08411480 ¹	6/4c + 16/1pr	0.933	23.7	6FX8008-1BA61
08411490 ¹	4/4c + 16/1pr	1.071	27.2	6FX8008-1BA25
08411495 ¹	2/4c + 16/1pr	1.185	30.1	6FX8008-1BA35
08411496 ¹	1/4c + 16/1pr	1.354	34.4	6FX8008-1BA50

* Cable can be used with Lenze motors

¹ Cable can be used with Fanuc motors

SL 834 C: Power- 3 phase

Part Number	Construction	Nominal outer Ø		Siemens
		inches	mm	
08341604 ¹	16 AWG/4c	0.354	9.0	6FX8008-1BB11
08341404 ¹	14 AWG/4c	0.425	10.8	6FX8008-1BB21
08341204 ¹	12 AWG/4c	0.488	12.4	6FX8008-1BB31
08341004 ¹	10 AWG/4c	0.606	15.4	6FX8008-1BB41
08340804 ¹	8 AWG/4c	0.693	17.6	6FX8008-1BB51
08340604	6 AWG/4c	0.894	22.7	6FX8008-1BB61
08340404	4 AWG/4c	1.008	25.6	6FX8008-1BB25
08340204	2 AWG/4c	1.138	28.9	6FX8008-1BB35
08340104	1 AWG/4c	1.358	34.5	6FX8008-1BB50

¹ Cable can be used with Fanuc motors

S 960 CY: Power- 3 phase

Part Number	Construction	Nominal outer Ø		Rockwell
		inches	mm	
07541604	16 AWG/4c	0.409	10.4	2090-XXNPMP-165xx
07541604	16 AWG/4c	0.409	10.4	9101-1381 Cont. Flex
07541604	16 AWG/4c	0.409	10.4	9101-1467 Cont. Flex
07541607	16 AWG/7c	0.531	13.5	9101-1385 Cont. Flex
07541404	14 AWG/4c	0.516	13.1	2090-XXNPMP-145xx
07541404	14 AWG/4c	0.516	13.1	9101-1382 Cont. Flex
07541004	10 AWG/4c	0.685	17.4	2090-XXNPMP-105xx
07541004	10 AWG/4c	0.685	17.4	9101-1383 Cont. Flex
07540804	8 AWG/4c	0.835	21.2	9101-1399 Cont. Flex

STATIONARY & FLEXIBLE USE

SL 806 C: Power with 2 pairs

Part Number	Construction	Nominal outer Ø		Siemens
		inches	mm	
8060415	16/4c + 19/2pr	0.551	14.0	6FX5008-1BA11*
8060425	14/4c + 19/2pr	0.606	15.4	6FX5008-1BA21*
8060440	12/4c + 18/1pr + 16/1pr	0.677	17.2	6FX5008-1BA31*
8060460	10/4c + 18/1pr + 16/1pr	0.752	19.1	6FX5008-1BA41*
8060470	8/4c + 18/2pr	0.890	22.6	6FX5008-1BA51*
8060480	6/4c + 16/2pr	1.083	27.5	6FX5008-1BA61*
8060490	4/4c + 16/2pr	1.240	31.5	6FX5008-1BA25
8060495	4/4c + 16/2pr	1.386	35.2	6FX5008-1BA35

* Siemens specifies 16 AWG pairs

SL 806 C, SL 860 C & CC 600 CY are flexible, tinned copper shielded motor connection cable for servo motors. This cable is used in automation technology, machine and industrial motor drive systems. SL 806 C and SL 860 C are designed in accordance to Siemens standards. CC 600 CY is designed to meet Rockwell Automation specifications.

Construction:

Conductor: Class 5 bare copper
Insulation: PE (SL 806 C), Special polymer (SL 812 C), PVC (CC 600 CY)
Color Code: Black with white numbers plus G/Y ground. (pairs numbered)
Screen Pairs: Alu-foil and tinned copper braid
Screen Overall: Tinned copper braid
Jacket: Gray PVC (SL 806 C & CC 600 CY), Orange PVC (SL 860 C)

Outstanding Features:

- Flexible design for easy installation
- Very good EMC characteristics
- Good oil resistance
- In accordance with Siemens and Rockwell Automation

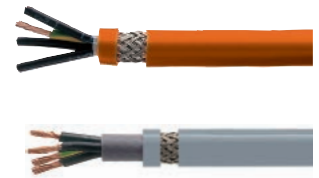


SL 860 C: Power - 3 phase

Part Number	Construction	Nominal outer Ø		Siemens
		inches	mm	
8601604	16 AWG/4c	0.335	8.5	6FX5008-1BB11
8601404	14 AWG/4c	0.366	9.3	6FX5008-1BB21
8601204	12 AWG/4c	0.469	11.9	6FX5008-1BB31
8601004	10 AWG/4c	0.535	13.6	6FX5008-1BB41
8600804	8 AWG/4c	0.843	21.4	6FX5008-1BB51
8600604	6 AWG/4c	0.874	22.2	6FX5008-1BB61
8600404	4 AWG/4c	1.024	26.0	6FX5008-1BB25
8600204	2 AWG/4c	1.154	29.3	6FX5008-1BB35

CC 600 CY: Power - 3 phase

Part Number	Construction	Nominal outer Ø		Rockwell
		inches	mm	
02591604	16 AWG/4c	0.406	10.3	9101-1381 Flexible
02591604	16 AWG/4c	0.406	10.3	9101-1467 Flexible
02591607	16 AWG/7c	0.472	12.0	9101-1385 Flexible
02591404	14 AWG/4c	0.465	11.8	9101-1382 Flexible
02591004	10 AWG/4c	0.630	16.0	9101-1383 Flexible
20590804	8 AWG/4c	0.807	20.5	9101-1399 Flexible



SAB CABLES FOR AUTOMATION

SERVO MOTOR FEEDBACK CABLES

CONTINUOUS FLEX

SAB encoder, resolver, feedback cables are continuous flexing UL recognized and CSA approved transmission cable with an overall tinned copper braid. This cable is designed for automated servo systems and also suitable for resolvers and shaft encoders. Products are designed in accordance with Indramat, Siemens, Lenze and Heidenhain standards.

Construction:

Conductor: Bare stranded copper
Insulation: TPE
Screen Pairs: Alu-foil and tinned copper braid
Screen Overall: Tinned copper braid
Jacket: Orange or Green TMPU

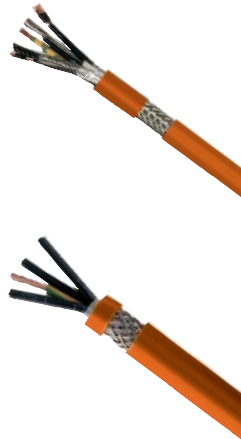
Outstanding Features:

- Continuous flex design for long life
- Halogen-free
- Extremely oil resistant
- In accordance with Siemens, Indramat, Lenze and Heidenhain
- Flexible at -40°C



Part Number	Type	Construction	Nominal outer Ø		Jacket	Indramat	Siemens	Other
			inches	mm				
8422009	SL 841 C	20/9c	0.346	8.8	Orange TMPU	INK-0208		
8430009	SL 843 C	24/4pr + 20/2c	0.346	8.8	Orange TMPU	INK-0448		
8430010	SL 843 C	24/4pr + 18/2c	0.346	8.8	Orange TMPU	INK-0209		Lenze & Heidenhain
8430160	SL 843 C	(24/3pr) D + 24/3c + 18/2c	0.394	10.0	Orange TMPU	INK-0280		
8430060	SL 843 C	26/4pr + (26/4c) D + 18/4c	0.386	9.8	Orange TMPU	INK-0532		
8430012	SL 843 C	26/4pr + 20/4c	0.358	9.1	Green TMPU			Heidenhain
8430112	SL 843 C	26/10c + 20/2c	0.335	8.5	Green TMPU			Heidenhain
8430114	SL 843 C	26/10c + 20/4c	0.354	9.0	Green TMPU			Heidenhain
8430013	SL 843 C	22/4pr + 20/4c	0.406	10.3	Green TMPU		6FX8008-1BD21	Heidenhain
8430020	SL 843 C	(26/3pr) C + 18/2c	0.394	10.0	Green TMPU			Heidenhain
8430022	SL 843 C	(26/3pr) C + 20/2c	0.394	10.0	Green TMPU		6FX8008-1BD31	Lenze
8430070	SL 843 C	(26/3pr) D + 26/4c + 20/2c	0.398	10.1	Green TMPU		6FX8008-1BD41	Lenze
8431050	SL 843 C	(26/3pr) D + 26/4c + 24/4c + 20/2c	0.421	10.7	Green TMPU		6FX8008-1BD51	
8430310	SL 843 C	24/12c	0.335	8.5	Green TMPU		6FX8008-1BD81	
8430212	SL 843 C	26/2pr	0.264	6.7	Green TMPU		6FX8008-1BD71	
8430214	SL 843 C	26/4pr	0.323	8.2	Green TMPU		6FX8008-1BD61	
8430216	SL 843 C	26/8pr	0.382	9.7	Green TMPU		6FX8008-1BD11	
8390115	Drive Cliq	26/2pr + 22/2c	0.272	6.9	Green TMPU		6FX8008-2DC00	
8390220	Drive Cliq	25/2pr + 22/2c	0.272	6.9	Green TMPU		6FX8008-2DC00	

pair in () denotes shielded C= tinned copper braid D= tinned copper spiral



STATIONARY & FLEXIBLE USE

SAB encoder, resolver, feedback cables are highly flexible cables with an overall tinned copper braid. This cable is designed for automated servo systems and also suitable for resolvers and shaft encoders. Products are designed in accordance with Siemens, Lenze and Heidenhain standards.

Construction: SL 802 C & SL 803 C

Conductor: Bare stranded copper
Insulation: TPE
Screen Pairs: Alu-foil and tinned copper braid
Screen Overall: Tinned copper braid
Jacket: Orange or Green TMPU
Approvals: CE

Construction: SL 839 C

Conductor: Tinned stranded copper
Insulation: Special Polymer
Screen Pairs: Alu-foil and tinned copper braid
Screen Overall: Tinned copper braid
Jacket: Green PU
Approvals: UR & CE

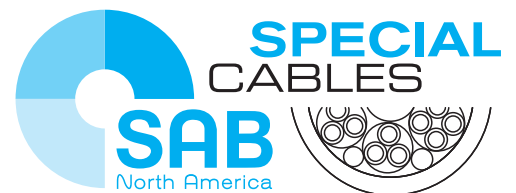
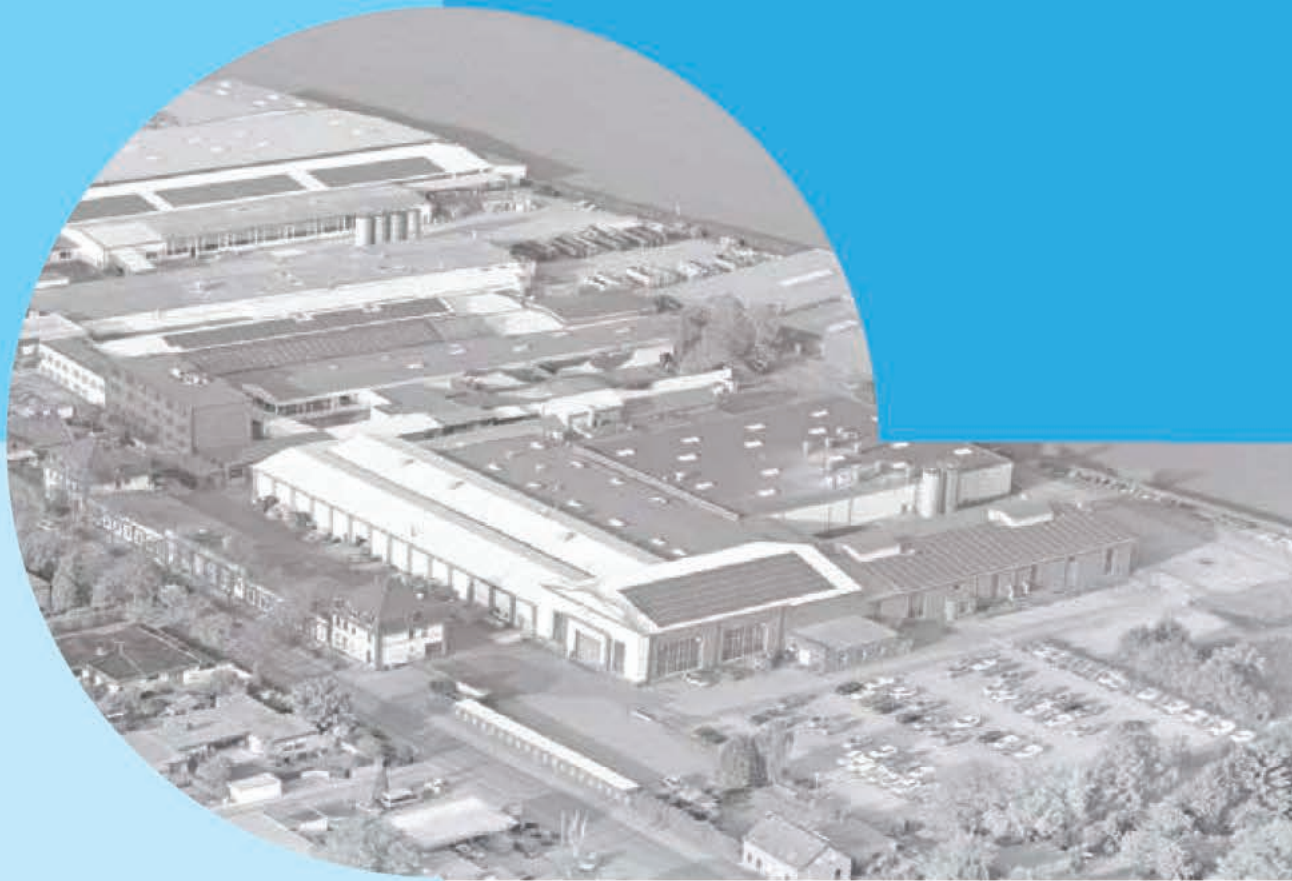
Part Number	Type	Construction	Nominal outer Ø		Jacket	Siemens	Other
			inches	mm			
8020050	SL 802 C	20/9c	0.307	7.8	Green TMPU		
8030009	SL 802 C	24/4pr + 20/2c	0.307	7.8	Green TMPU		
8030010	SL 802 C	24/4pr + 18/2c	0.311	7.9	Green TMPU		Lenze & Heidenhain
8030160	SL 802 C	24/3pr + 24/3c + 18/2c	0.311	7.9	Green TMPU		
8030060	SL 802 C	26/4pr + 26/4c + 18/4c	0.382	9.7	Green TMPU		
8030012	SL 803 C	26/4pr + 20/4c	0.311	7.9	Green TMPU		Heidenhain
8030112	SL 803 C	26/10c + 20/2c	0.276	7.0	Green TMPU		Heidenhain
8030114	SL 803 C	26/10c + 20/4c	0.307	7.8	Green TMPU		Heidenhain
8030013	SL 803 C	22/4pr + 20/4c	0.350	8.9	Green TMPU	6FX5008-1BD21	Heidenhain
8030020	SL 803 C	(26/3pr) C + 18/2c	0.339	8.6	Green TMPU		Heidenhain
8030022	SL 803 C	(26/3pr) C + (20/2c) C	0.354	9.6	Green TMPU	6FX5008-1BD31	Lenze
8390214	SL 839 C	(26/3pr)D + 26/4c + 20/2c	0.378	8.8	Green TMPU	6FX5008-1BD41	Lenze
8391050	SL 839 C	(26/3pr)D + 26/4c + 24/4c + 20/2c	0.374	9.5	Green TMPU	6FX5008-1BD51	
8390122	SL 839 C	22/12c	0.264	6.7	Green TMPU	6FX5008-1BD81	
8390218	SL 839 C	26/4pr	0.248	6.3	Green TMPU	6FX5008-1BD61	
8390318	SL 839 C	26/8pr	0.307	7.8	Green TMPU	6FX5008-1BD11	

pair in () denotes shielded C= tinned copper braid D= tinned copper spiral

Outstanding Features:

- Flexible design for easy installation
- Very good EMC characteristics
- Good oil resistance
- In accordance with Siemens, Lenze and Heidenhain





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