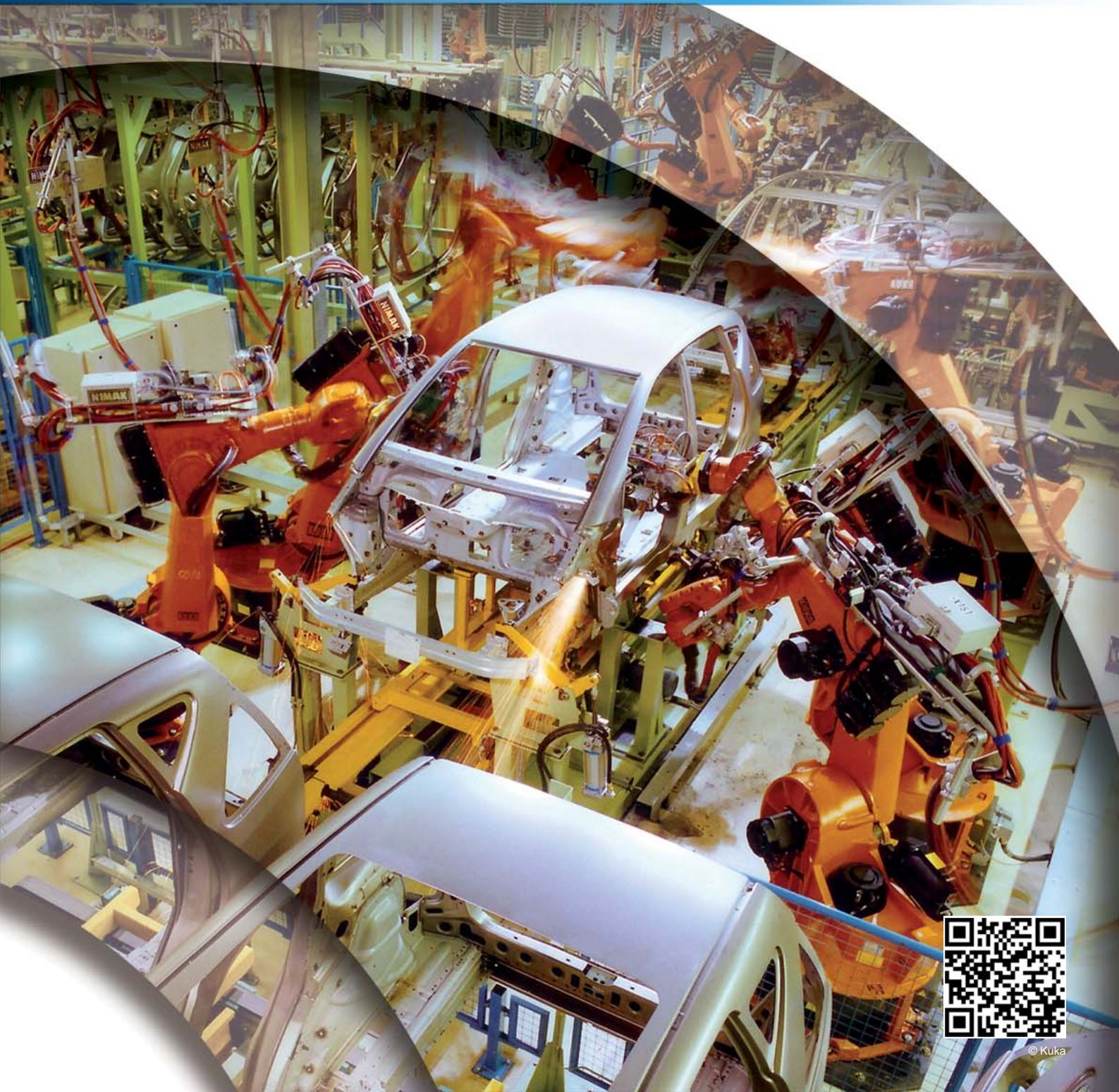


USB 2.0

CABLES



transmission length up to 10m!

USB 2.0 Cables flexible



Marking for USB 2.0 06010122:

SAB BRÖCKSKES · D-VIERSEN · USB 2.0 (2x0,22mm²) ST + 2x0,5mm² 0601-0122 CE



Construction:	USB 2.0 <i>flexible</i>	USB 2.0 UL <i>flexible</i>	USB 2.0 FRNC <i>flexible</i>
Dimension:	(2 x 0,22 mm ²) ST + 2 x 0,5 mm ²		
Conductor:	bare copper strands (0,50 mm ²), silver-plated strands (0,22 mm ²)		
Insulation:	SABIX®		
Colour 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 0,5 mm ²		
Wrapping:	non-woven tape		
Screen:	tinned copper braiding		
Sheath material:	PVC		SABIX®
Sheath colour:	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>
Item number:	0601-0122	0601-0222	0601-9001
Peak operating voltage VDE:	max. 350 V		
Voltage UL:	---	300 V	---
Testing voltage:	core/core 1500 V core/screen 1200 V	core/core 2000 V core/screen 2000 V	core/core 1500 V core/screen 1200 V
Temperature range VDE fixed laying: flexible application:	- 30°C / + 70°C - 5°C / + 70°C	UL: up to + 80°C - 30°C / + 70 °C - 5°C / + 70 °C	- 50°C / + 90 °C - 40°C / + 90 °C
Min. bending radius fixed laying: flexible application:	5 x d 10 x d		
Halogen-free:	---		acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	---		flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to internal standard see page N/15		---
Absence of harmful substances:	acc. to RoHS directive of the European Union		

item no.	type	dimension mm ²	outer-ø approx. mm	copper figure kg/km	cable weight ≈kg/km
06010122	USB 2.0	(2x0,22) ST + 2x0,50	6,8	34,0	60
06010222	USB 2.0 UL	(2x0,22) ST + 2x0,50	7,0	34,0	63
06019001	USB 2.0 FRNC	(2x0,22) ST + 2x0,50	6,8	34,0	62

Other dimensions and colours are possible on request.

Application range:



The robot cable USB 2.0 was developed for high frequency data transmission in industry.

In the automobile industry intelligent image processing systems are very important. They are the key to more efficiency, precision and productivity with the installation and treatment by robots for the most different applications.

Whether for the identification of parts and components, for visual inspection, welded seam control or for the collection of bar codes

or type tests; wherever a quick and reliable collection and transmission of data from the camera to the industrial PC are absolutely important.

Our highly flexible robot cable USB 2.0 was especially developed for this application. It guarantees excellent transmission characteristics as it is demanded for intelligent image processing with a transmission distance of up to 10 m without amplifier under extreme industrial application conditions.

transmission length up to 10m!

USB 2.0 Cables continuously flexible



D-VIERSEN · USB 2.0 (2x0,22mm²) ST + 2x0,5mm² O

Marking for USB 2.0 06010122:

SAB BRÖCKSKES · D-VIERSEN · USB 2.0 (2x0,22mm²) ST + 2x0,5mm² 0601-0122 CE



Construction:	USB 2.0 S <i>suitable for cable tracks</i>	USB 2.0 S UL/CSA <i>suitable for cable tracks</i>	USB 2.0 RT UL/CSA <i>suitable for robots</i>
Dimension:	(2 x 0,22 mm ²) ST + 2 x 0,5 mm ²		
Conductor:	bare copper strands (0,50 mm ²), silver-plated strands (0,22 mm ²)		
Insulation:	SABIX®		
Colour 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 0,5 mm ²		
Wrapping:	non-woven tape	PTFE foil	
Screen:	tinned copper braiding	wrapping with tinned copper round wires	
Wrapping:	non-woven tape		
Sheath material:	PUR		
Sheath colour:	black (RAL 9005)		

Technical data:	USB 2.0 S <i>suitable for cable tracks</i>	USB 2.0 S UL/CSA <i>suitable for cable tracks</i>	USB 2.0 RT UL/CSA <i>suitable for robots</i>
Item number:	0601-1022	0601-1122	0601-2022
Peak operating voltage VDE:	max. 350 V		
Voltage UL/CSA:	---	300 V	
Testing voltage:	core/core 2000 V - core/screen 2000 V		
Temperature range VDE	UL/CSA: up to + 80°C		
fixed laying:	- 50°C / + 90 °C	- 50°C / + 90 °C	
flexible application:	- 40°C / + 90 °C	- 40°C / + 90 °C	
Min. bending radius			
fixed laying:	5 x d		5 x d
flexible application:	6 x d		7,5 x d
continuously flexible:	7,5 x d		10 x d
torsion angle:			up to +/- 180°/m
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1		---
Oil resistance:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
Absence of harmful substances:	acc. to RoHS directive of the European Union		

item no.	type	dimension mm ²	outer-ø approx. mm	copper figure kg/km	cable weight ≈kg/km
06011022	USB 2.0 S	(2x0,22) ST + 2x0,50	7,0	34,1	59
06011122	USB 2.0 S UL/CSA	(2x0,22) ST + 2x0,50	7,2	34,1	66
06012022	USB 2.0 RT UL/CSA	(2x0,22) ST + 2x0,50	7,0	34,3	64

Other dimensions and colours are possible on request.



FLEXIBLE CABLES

- Halogen-free cables ■ Cable track cables
- Servo motor cables ■ ETFE, FEP, PFA cables
 - Bus cables ■ Torsion cables
- Hybrid and special cables ■ Control and connection cables
 - Data cables ■ Besilen® (Silicone) cables
- Compensating and extension cables ■ Tray cables

TEMPERATURE MEASUREMENT

- Protecting armatures and gauge slides
- Mineral insulated thermocouples and Mineral insulated resistance thermometers
- Temperature measurement in plastics processing industry/Hot runner technique
 - Diesel thermocouples ■ Probe with stainless steel sleeve
 - Temperature measurement in test vehicles
 - Measurement techniques

CABLE HARNESSING

- Harnessed cables acc. to customer's specification
 - Harnessed cable track cables
 - Helix cables ■ Cable harnesses
- Harnessed motor and transmission cables for Siemens and Indramat drives