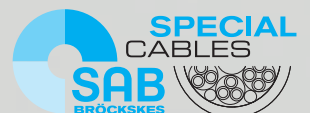


Cables

for robotic technology



www.sab-cable.com



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.

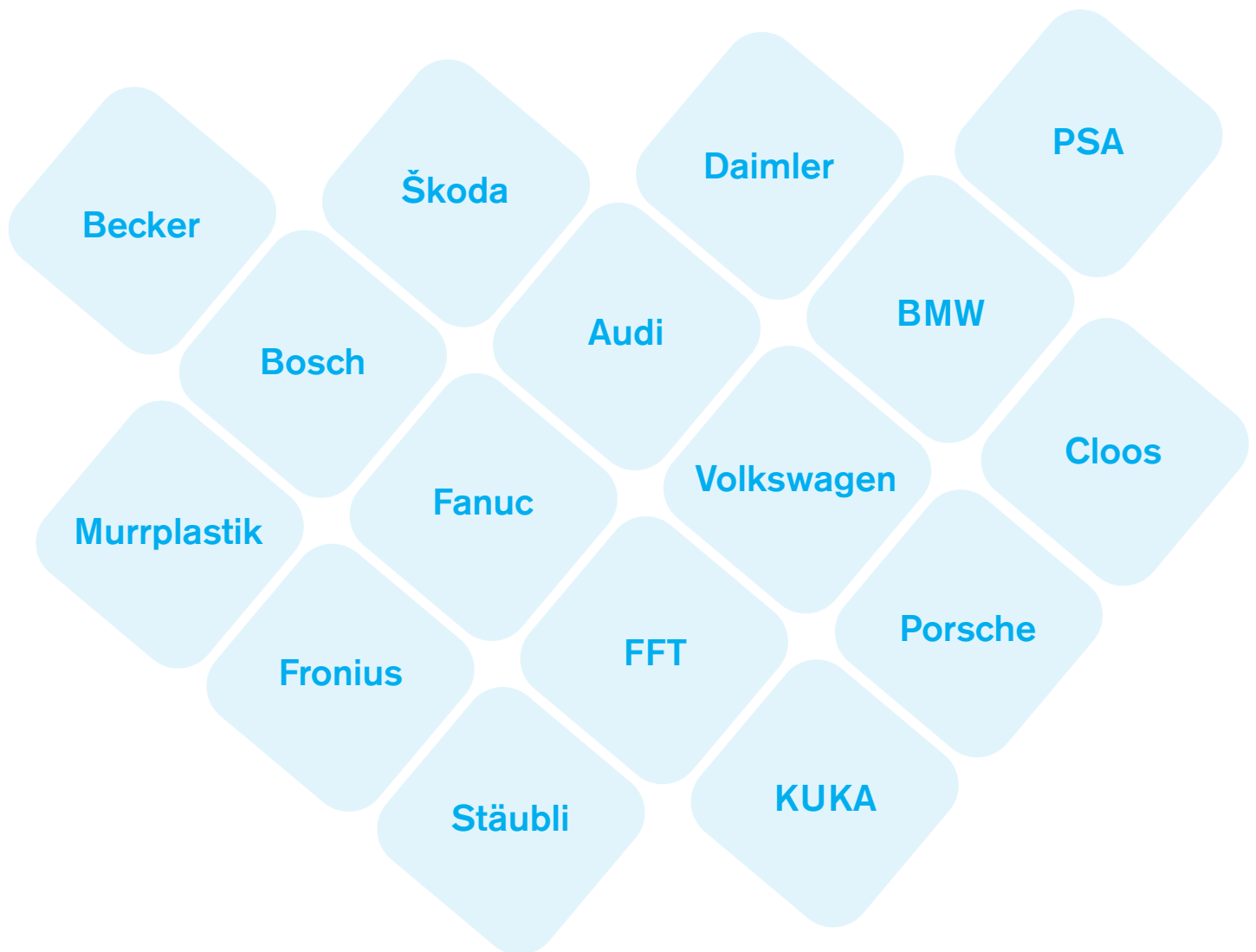
And also for the future, our slogan is: **"WE GO FORWARD!"**

| | |
|--------------------------------|--|
| 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: | <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> |



Cables for robotic technology

References



D-U-N-S® number
315 499 111 worldwide



| | <u>Supplier no.</u> |
|-----------|---------------------|
| Audi | 1917/0 |
| BMW | 609 213-10 |
| Daimler | 102 218 10 |
| Ford | DJM5A |
| PSA | A00DYT 01 |
| Porsche | 11 901 |
| Škoda | 27597 |
| VW | 1917-0 |
| VW Mexico | 600 200 57 70 |



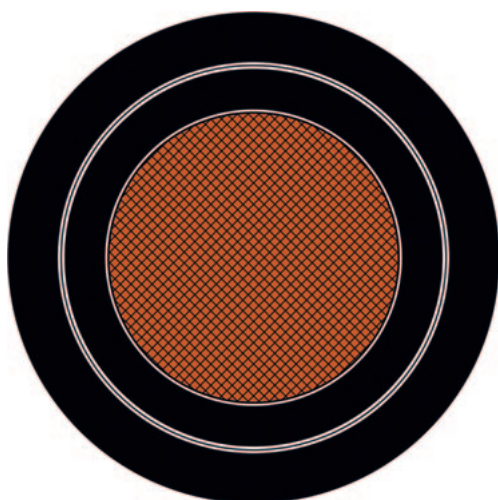
Grafik: Murrplastik Systemtechnik, Oppenweiler



| | |
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| Family business in the third generation | 2 |
| References | 3 |
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Welding cables for robot applications



Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |

| item no. | dimension mm ² | colour-coding | outer-ø ≈ mm |
|-----------|------------------------------|---------------|-----------------|
| 0726-0001 | 1 x 16,0 | bk/bk | 10,1 |
| 0726-0002 | 1 x 25,0 | bk/bk | 11,1 |
| 0726-0003 | 1 x 25,0 | gnye/bk | 11,1 |
| 0726-0004 | 1 x 35,0 | bk/bk | 13,3 |
| 0726-0005 | 1 x 35,0 | gnye/bk | 13,3 |
| 0726-0006 | 1 x 50,0 | bk/bk | 15,8 |
| 0726-0007 | 1 x 70,0 | bk/bk | 18,2 |
| 0726-0008 | 1 x 95,0 | bk/bk | 20,7 |

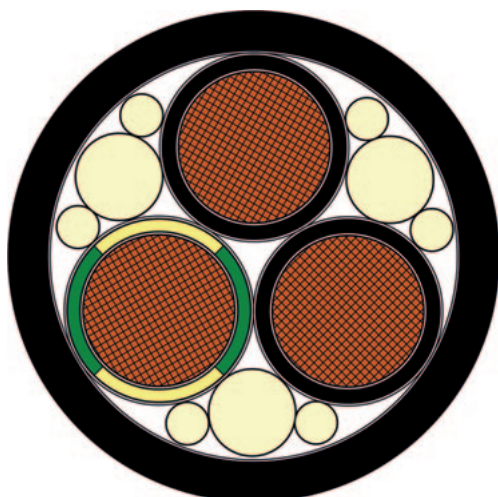
Other dimensions and colours are possible on request.



Preferred type

Technical Data:

| Operating voltage | Testing voltage | Temperature range | Min. bending radius | Halogen-free | Absence of harmful substances |
|-------------------|-----------------|-------------------------------------|----------------------|---|---|
| 750 V (DC) | 2000 V (AC) | flexible application: -40/+90 °C | recommended: 7,5 x d | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to RoHS directive of the European Union |



Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | PUR |
| Colour code: | black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|------------------------------|-----------------|
| 0726-0009 | 3 x 16,0 | 19,3 |
| 0726-0010 | 3 x 25,0 | 23,3 |
| 0726-0011 | 3 x 35,0 | 26,6 |
| 0726-0012 | 3 x 50,0 | 30,8 |

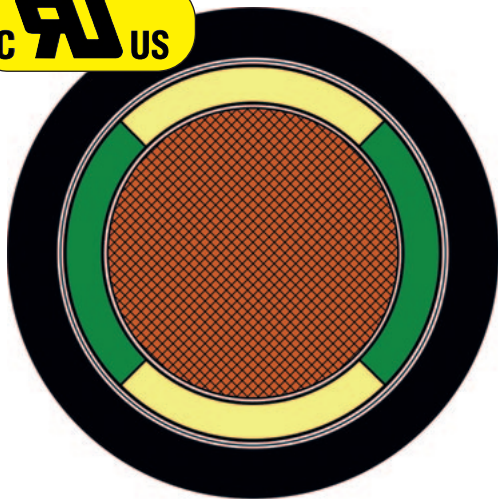
Other dimensions and colours are possible on request.

Technical Data:

| Operating voltage | Testing voltage | Temperature range | Min. bending radius | Halogen-free | Absence of harmful substances |
|--|--|-------------------------------------|----------------------|---|---|
| ≤ 16,0 mm ² = 500 V (DC) ≥ 25,0 mm ² = 750 V (DC) | ≤ 16,0 mm ² = 1500 V (AC) ≥ 25,0 mm ² = 2000 V (AC) | flexible application: -40/+90 °C | recommended: 7,5 x d | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to RoHS directive of the European Union |

Welding cables for robot applications

cULus recognized



Construction:

| | |
|------------------|---|
| Conductor: | copper strands acc. to IEC 60228 |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |

| item no. | dimension mm ² | colour-coding | outer-ø ≈ mm |
|-----------|------------------------------|---------------------|-----------------|
| 0726-0013 | 1 x 10,0 | bk/gnye | 7,0 |
| 3768-9071 | 1 x 10,0 | pk functional earth | 7,0 |
| 3768-9010 | 1 x 16,0 | bk/gnye | 8,9 |
| 0726-0015 | 1 x 25,0 | gnye/bk | 11,1 |
| 0390-9602 | 1 x 25,0 | bk/bk | 11,1 |
| 0390-9604 | 1 x 35,0 | bk/bk | 13,3 |
| 0726-0018 | 1 x 35,0 | bk/gnye | 13,3 |
| 0390-9582 | 1 x 50,0 | bk/bk | 15,8 |
| 0390-9583 | 1 x 70,0 | bk/bk | 18,0 |

Other dimensions and colours are possible on request.

Technical Data:

| Operating voltage | Voltage UL/CSA | Testing voltage | Temperature range | Min. bending radius | Halogen-free | Absence of harmful substances |
|-------------------|----------------|-----------------|---|-------------------------|---|--|
| 750 V (DC) | 1000 V | 10000 V | flexible application: -40/+90 °C cULus: up to +80 °C | recommended: 7,5 x d | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to RoHS directive of the European Union |



Foto: Murrplastik Systemtechnik GmbH



Construction:

| | |
|------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | white cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|------------------------------|--------------|
| 0796-9081 | 5 x (2 x 0,75) D + 22 x 0,75 | 16,0 |

Other dimensions and colours are possible on request.

Technical Data:

| Nominal voltage | Testing voltage | Temperature range | Min. bending radius | Absence of harmful substances |
|-----------------------------|--|-------------------------------------|---------------------|--|
| U ₀ /U 300/500 V | core/core 2000 V (AC) core/screen 2000 V (AC) | flexible application: -40/+80 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |

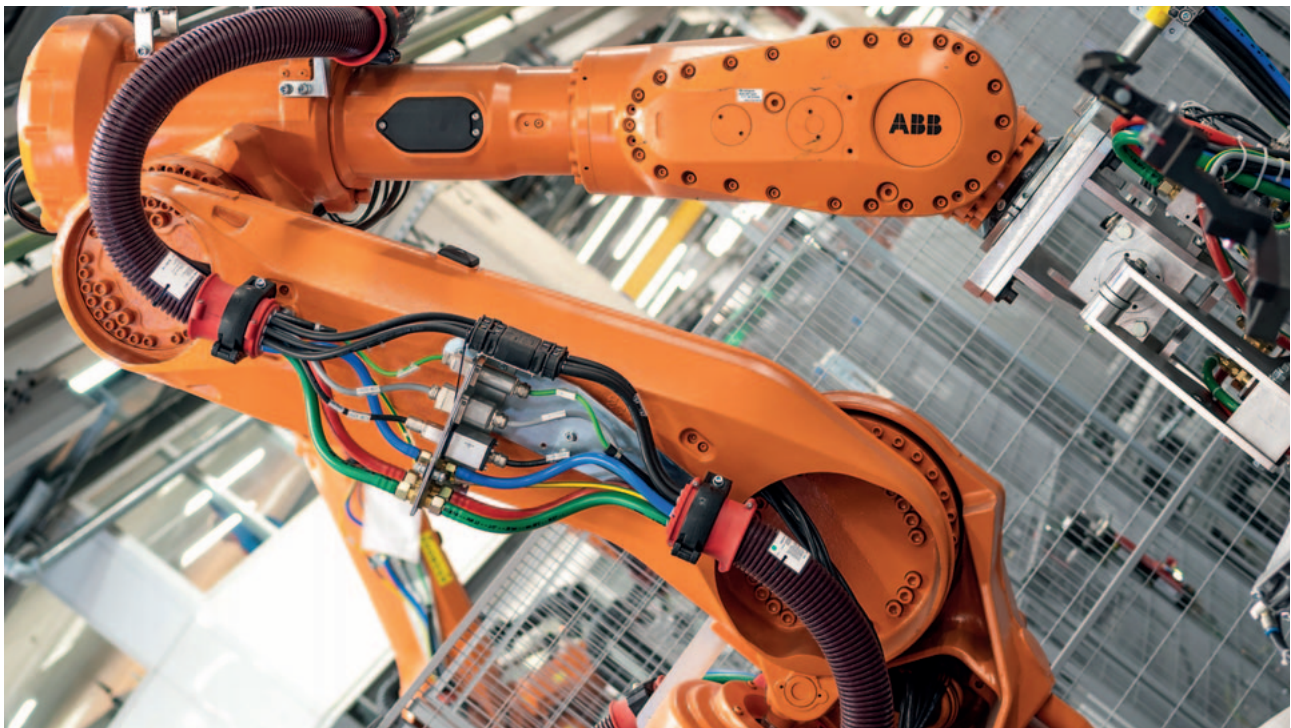


Foto: Becker GmbH, Dülmen



Construction:

| | |
|------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | white cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | sky blue (RAL 5015) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|---|-----------------|
| 0399-0157 | 3 x 1,0 + 4 x 0,5 + 3 x 3 x 0,5 + (2 x 0,5) D | 12,1 |

Other dimensions and colours are possible on request.

Technical Data:

| Peak operating voltage | Testing voltage | Temperature range | Min. bending radius | Absence of harmful substances |
|------------------------|--|-------------------------------------|---------------------|--|
| max. 500 V | core/core 1500 V core/screen 1200 V | flexible application: -40/+90 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |

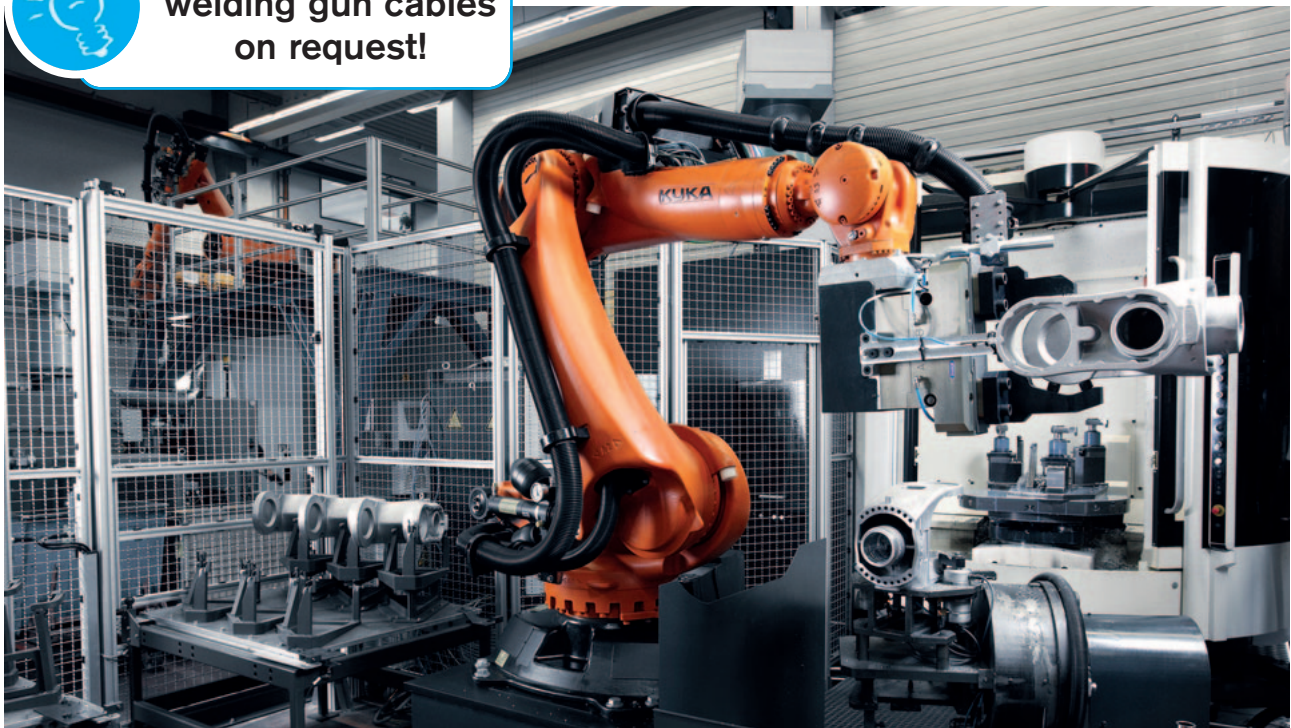
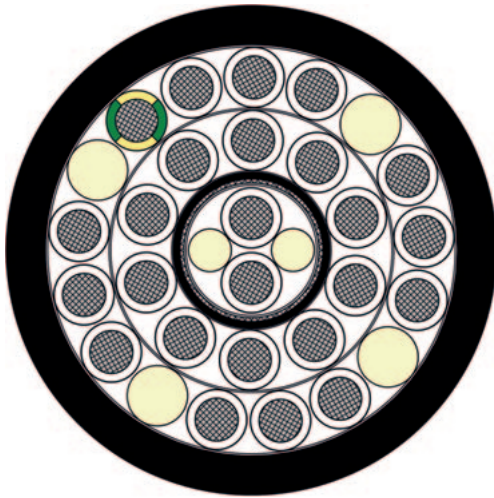


Foto: KUKA AG



Construction:

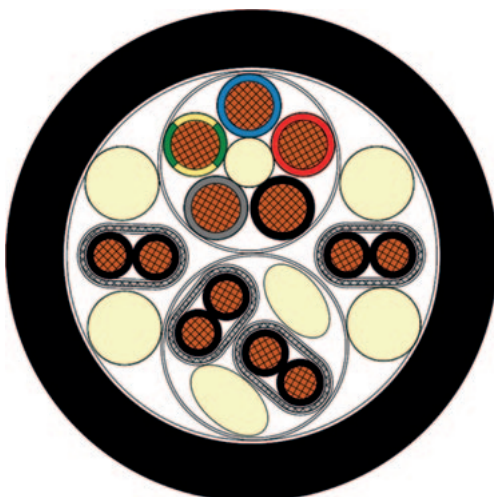
| | |
|------------------|--|
| Conductor: | tinned copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | white cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire |
| Inner sheath: | TPE |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|---------------------------|--------------|
| 0764-9065 | 23 x 1,0 + (2 x 1,0) D | 13,5 |

Other dimensions and colours are possible on request.

Technical Data:

| Peak operating voltage | Testing voltage | Temperature range | Min. bending radius | Absence of harmful substances |
|------------------------|--|-------------------------------------|---------------------|--|
| max. 600 V | core/core 2000 V core/screen 1200 V | flexible application: -40/+90 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |



Construction:

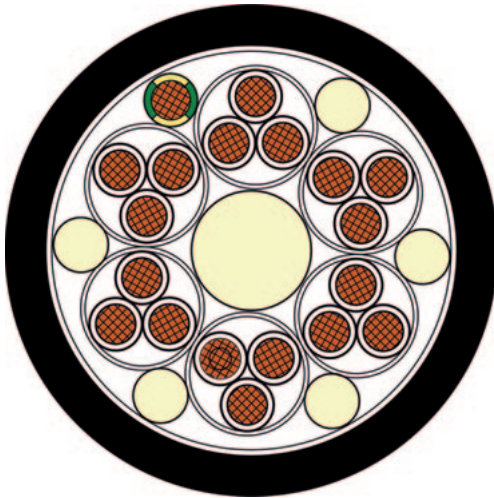
| | |
|------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | coloured acc. to specification |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|---------------------------|--------------|
| 0726-0025 | 5 x 1,0 + 4 x (2 x 0,5) D | 13,7 |

Other dimensions and colours are possible on request.

Technical Data:

| Min. bending radius | Torsion angle | Temperature range | PWIS uncritical | Absence of harmful substances |
|---------------------|-------------------|-------------------------------------|--|--|
| recommended: 10 x d | up to ±180°/0,5 m | flexible application: -40/+90 °C | all our robot cables are free from paint-wetting impairment substances | acc. to RoHS directive of the European Union |



Construction:

| | |
|------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | white cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 and a green-yellow earth wire |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|------------------------------|-----------------|
| 0760-9190 | 18 x 1,00 | 12,9 |
| 0760-9151 | 19 x 0,75 | 12,4 |
| 0760-9056 | 19 x 1,00 | 13,3 |

Other dimensions and colours are possible on request.

Technical Data:

| Nominal voltage | Testing voltage | Temperature range | Min. bending radius | Absence of harmful substances |
|-----------------|------------------|-------------------------------------|---------------------|---|
| max. 350 V | core/core 1500 V | flexible application: -40/+90 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |

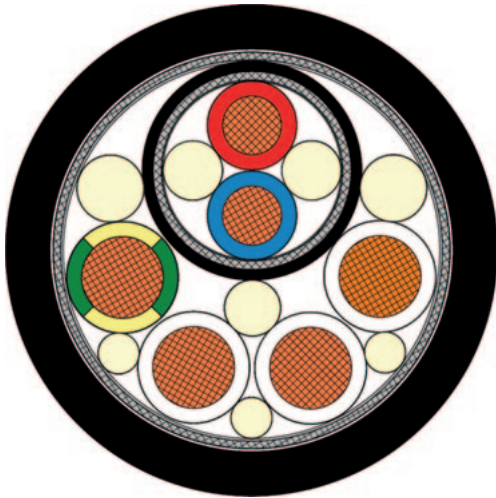


**Your haven't found
your special cable?**

Please contact our specialists!



Foto: KUKA AG



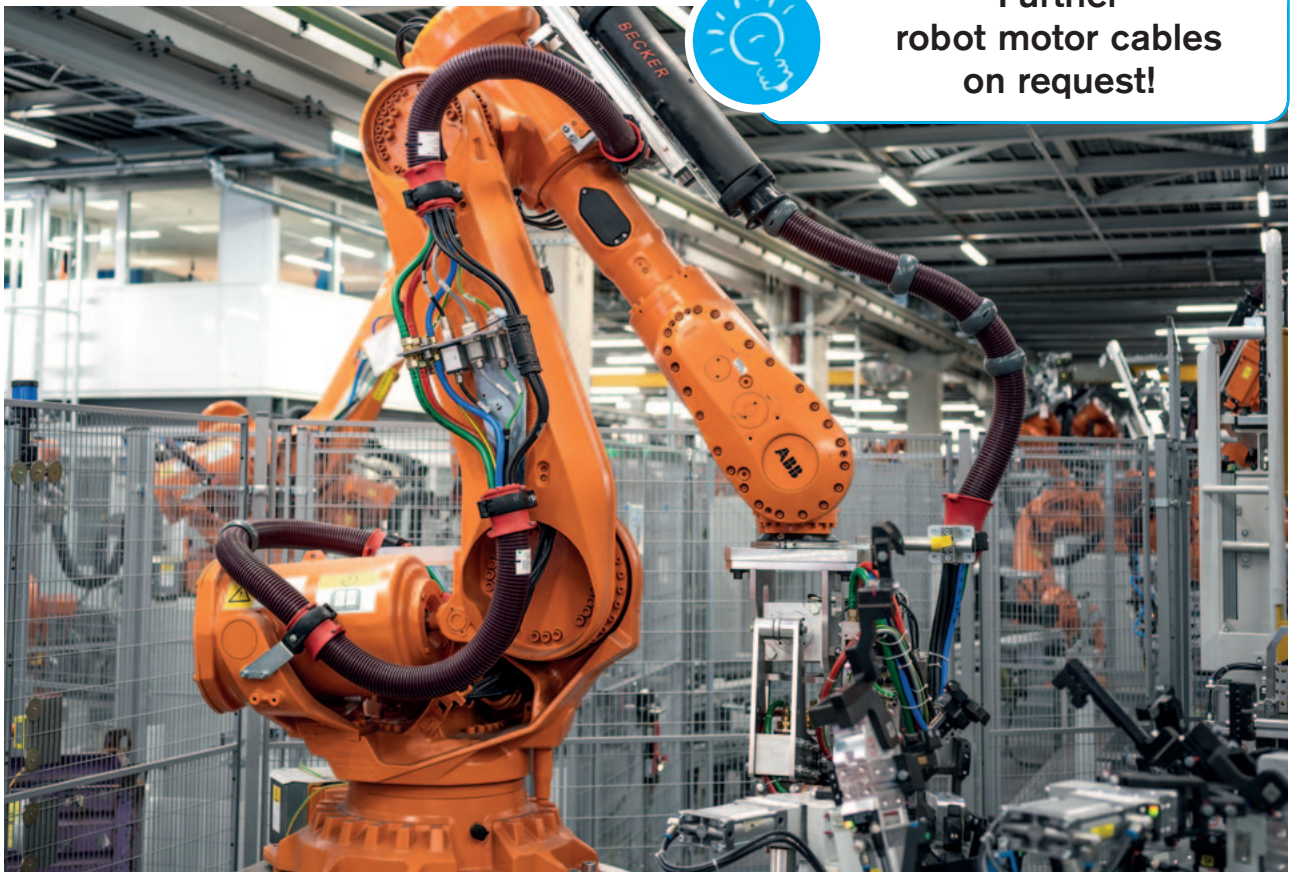
Construction:

| | |
|------------------|---|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | acc. to specification |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|------------------------------|-----------------|
| 0764-9120 | 4 x 0,75 + 2 x (2 x 0,34) | 9,7 |
| 0796-9253 | 4 x 1,5 + 2 x (2 x 0,75) D | 13,9 |
| 0779-9043 | 4 x 2,5 + 2 x 1,0 | 12,1 |
| 0726-0070 | 4 x 2,5 + (2 x 1,0) D | 12,1 |
| 0841-9202 | 4 x 2,5 + (2 x 1,5) D | 12,9 |

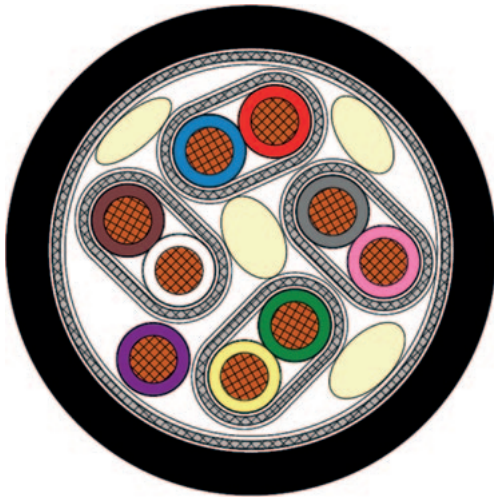
Technical Data:

| Nominal voltage | Temperature range | Halogen-free | Absence of harmful substances |
|-----------------------------|----------------------------------|--------------------------------------|--|
| U ₀ /U 450/750 V | flexible application: -40/+90 °C | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to RoHS directive of the European Union |



**Further
robot motor cables
on request!**

Foto: Becker GmbH, Dülmen



Construction:

| | |
|------------------|---|
| Conductor: | copper strands acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | acc. to specification |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|-------------------------------------|-----------------|
| 0795-9035 | (2 x 0,5) D + (2 x 0,5) D | 8,8 |
| 0726-0033 | (2 x 0,5) D + 2 x 0,5 | 8,2 |
| 0796-9101 | (3 x 1,0) D + (2 x 1,0) D + 1 x 1,0 | 10,4 |
| 0726-0035 | 4 x (2 x 0,50) D + 1 x 0,50 | 9,6 |
| 0726-0036 | 6 x 0,75 + (3 x 0,75) D | 9,8 |
| 0726-0037 | 2 x (2 x 0,75) D + (3 x 0,75) D | 10,3 |
| 0726-0038 | 1 x (2 x 0,50) D + 7 x 1,0 | 9,1 |

Other dimensions and colours are possible on request.

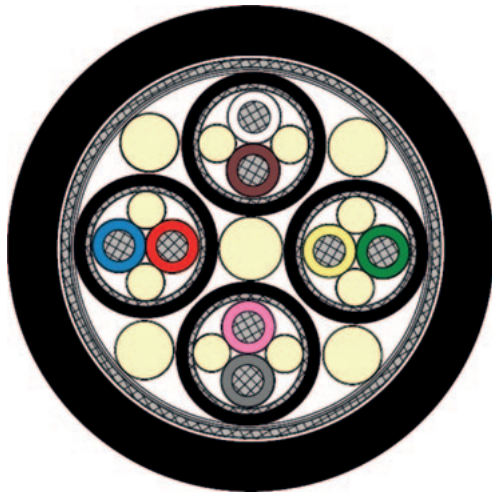
Technical Data:

| PWIS uncritical | Temperature range | Min. bending radius | Absence of harmful substances |
|--|-------------------------------------|---------------------|---|
| all our robot cables are free of paint-wetting interfering substances | flexible application: -40/+90 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |



**Further KSR cables
on request!**





Construction:

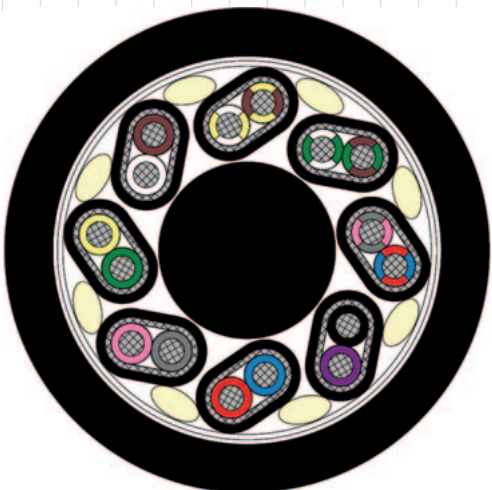
| | |
|------------------|--|
| Conductor: | tinned copper strands, fine wires acc. to IEC 60228 |
| Colour code: | with reference to DIN 47100 |
| Stranding: | twisted pairs wrapped with tinned copper wires |
| Inner sheath: | TPE |
| Stranding: | pairs together |
| Total screen: | wrapped with tinned copper wires |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|------------------------------|-----------------|
| 0390-9449 | [4 x (2 x 0,25) D] D | 9,1 |

Other dimensions and colours are possible on request.

Technical Data:

| Peak operating voltage | PWIS uncritical | Halogen-free | Temperature range | Min. bending radius | Absence of harmful substances |
|------------------------|--|--------------------------------------|-------------------------------------|---------------------|--|
| max. 350 V | free of paint-wetting interfering substances | acc. to IEC 60754-1 + VDE 0482-754-1 | flexible application: -40/+70 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |



Construction:

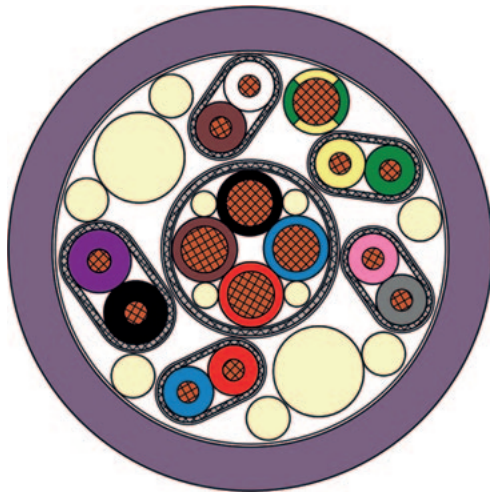
| | |
|------------------|---|
| Conductor: | bare copper strands, fine wires acc. to IEC 60228 |
| Insulation: | TPE |
| Colour code: | with reference to DIN 47100 |
| Stranding: | cores twisted to pairs, pairs in layers |
| Screen: | wrapped with tinned copper wires |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|------------------------------|-----------------|
| 0789-9041 | 8 x (2 x 0,22) D | 12,2 |
| 0796-9237 | 8 x 2 x 0,25 | 8,9 |

Other dimensions and colours are possible on request.

Technical Data:

| Peak operating voltage | Testing voltage | Temperature range | Min. bending radius | Torsion angle | Absence of harmful substances |
|------------------------|--|-------------------------------------|---------------------|-------------------|--|
| max. 350 V | core/core 1500 V core/screen 1200 V | flexible application: -40/+90 °C | recommended: 10 x d | up to ±180°/0,5 m | acc. to RoHS directive of the European Union |



Construction:

| | |
|------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | special Polymer / TPE |
| Colour code: | with reference to DIN 47100 + black, blue, red, brown, green-yellow |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | redlilac (RAL 4001) |

| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|----------------------------------|-----------------|
| 0726-0042 | 4 x 1,0 + 5 x 2 x 0,25 + 1 x 1,0 | 13,2 |

Other dimensions and colours are possible on request.

Technical Data:

| Nominal voltage | Testing voltage | Temperature range | Min. bending radius | Absence of harmful substances |
|-----------------|--|-------------------------------------|---------------------|---|
| max. 350 V | core/core 1700 V core/screen 1000 V | flexible application: -40/+70 °C | recommended: 10 x d | acc. to RoHS directive of the European Union |

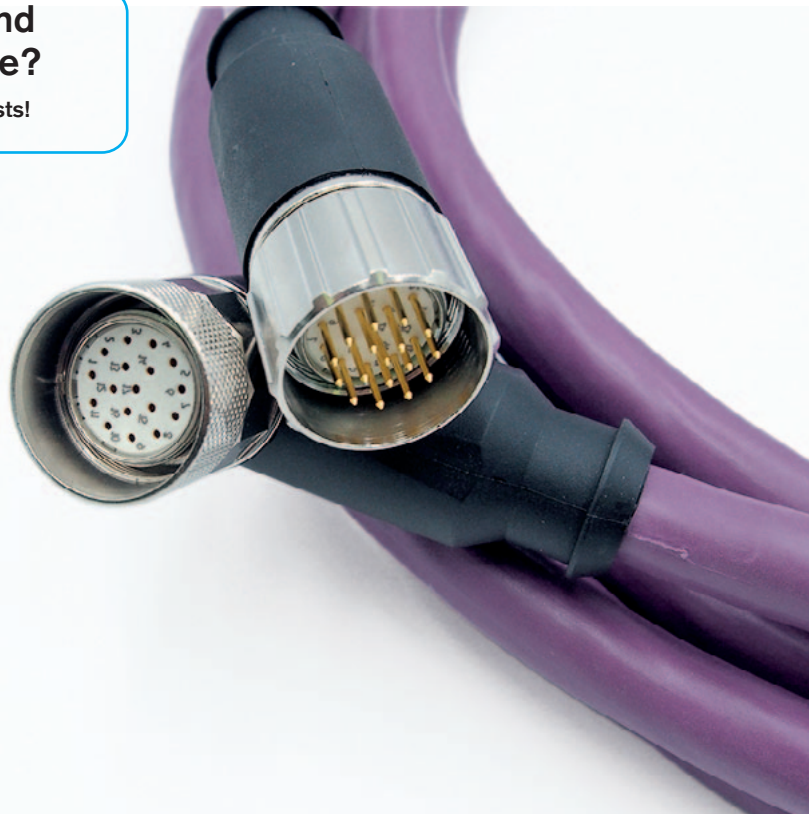


**Your haven't found
your special cable?**

Please contact our specialists!



Foto: KUKA AG





Construction:

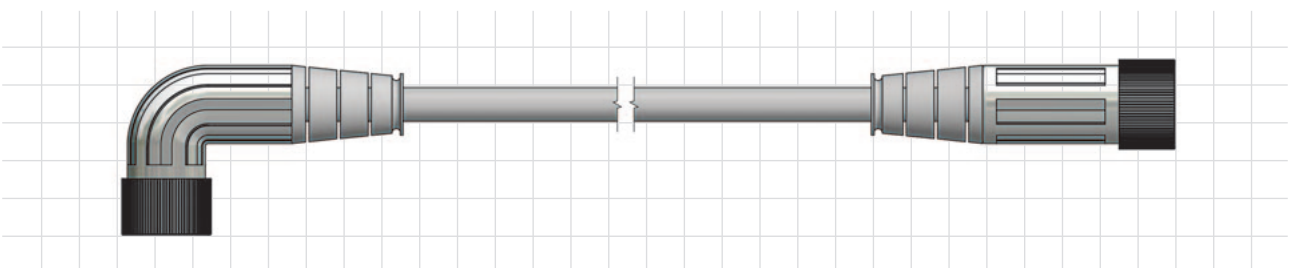
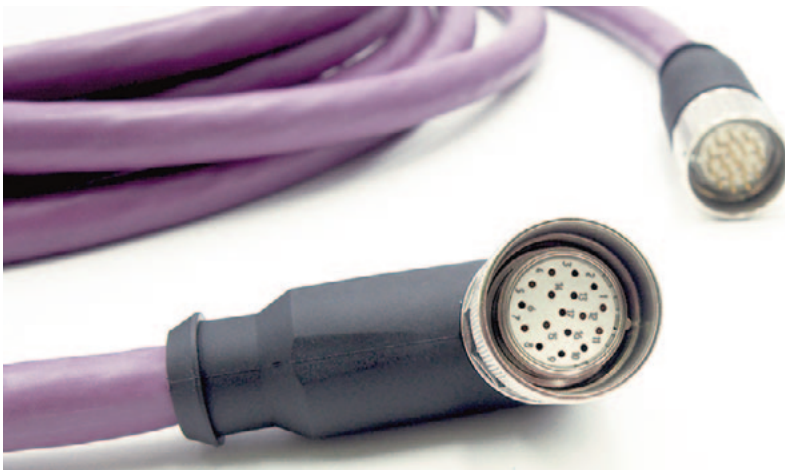
| | |
|-------------------------|---|
| Conductor: | bare resp. tinned copper strands acc. to IEC 60228 |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | redlilac (RAL 4001) |

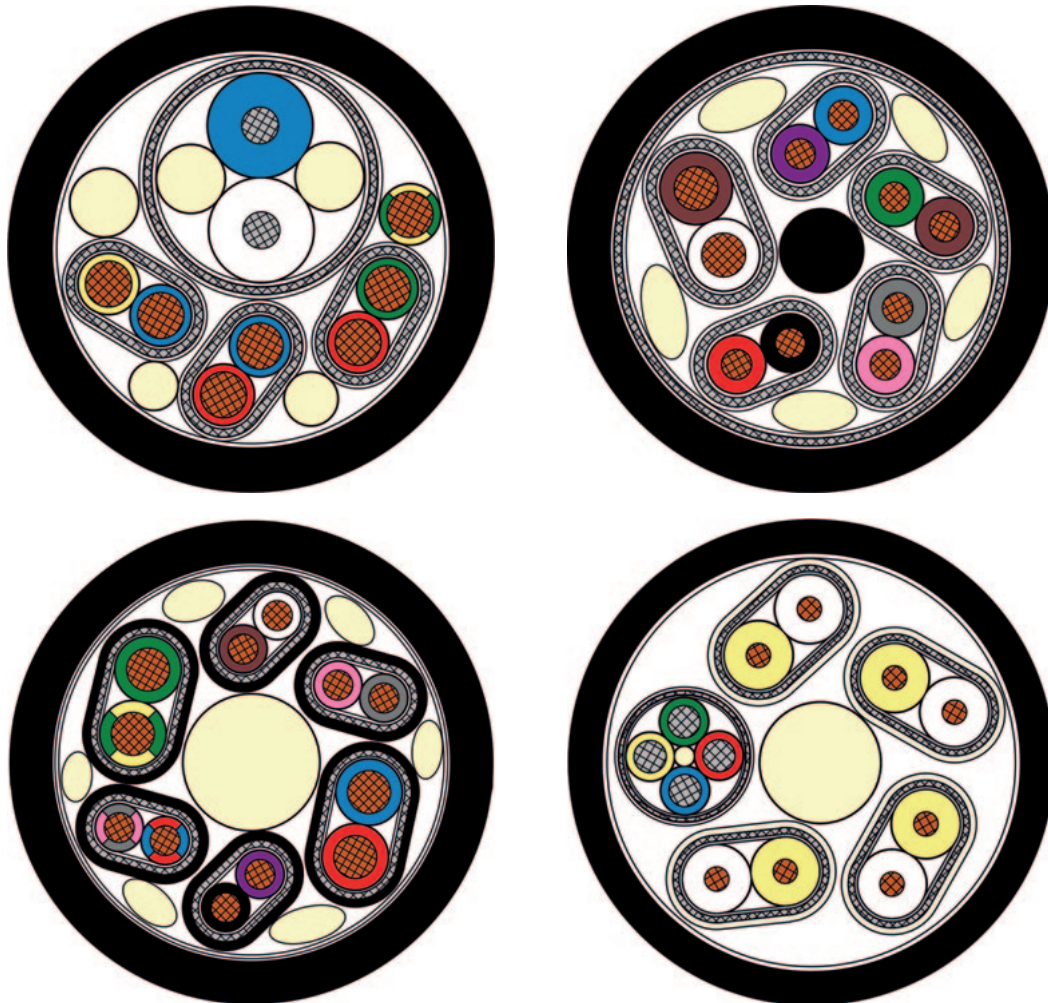
| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|---|-----------------|
| 0726-0043 | $2 \times (2 \times 0,25) D + 2 \times (2 \times 0,34) D + 1,0 + (2 \times 0,29) D + 2 \times (2 \times 1,0) D$ | 13,9 |

Other dimensions and colours are possible on request.

Technical Data:

| Operating voltage | Voltage UL | Testing voltage | Temperature range | Min. bending radius | Absence of harmful substances |
|-------------------|------------|---------------------------------------|---|---------------------|---|
| max. 350 V | 30 V | core/core 1000 V core/screen 700 V | flexible application: -40/+70 °C UL: up to +80 °C | recommended: 12 x d | acc. to RoHS directive of the European Union |





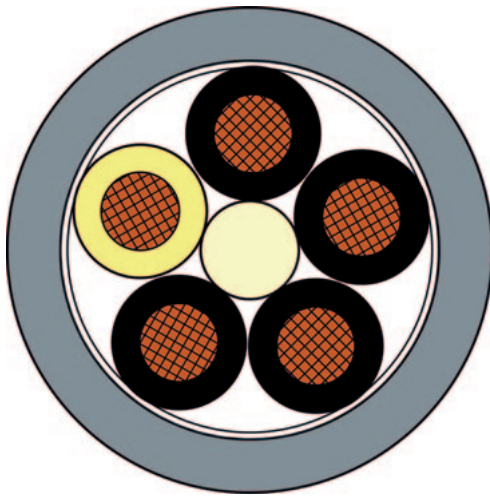
| item no. | dimension mm ² | outer-ø ≈ mm |
|-----------|---|-----------------|
| 0625-9019 | (2 x 0,34) D CB + 3 x (2 x 0,50) D + 1 x 0,50 | 9,4 |
| 0796-9238 | 4 x (2 x 0,25) D + (2 x 0,50) D | 10,4 |
| 0803-9208 | 4 x (2 x 0,25) D + 2 x (2 x 0,50) D | 10,6 |
| 1639-9009 | 4 x (2 x AWG 24) D Cat.6 + (4 x 0,50) D | 11,6 |

Other dimensions and colours are possible on request.



Power cable

5 x 1,5 mm²

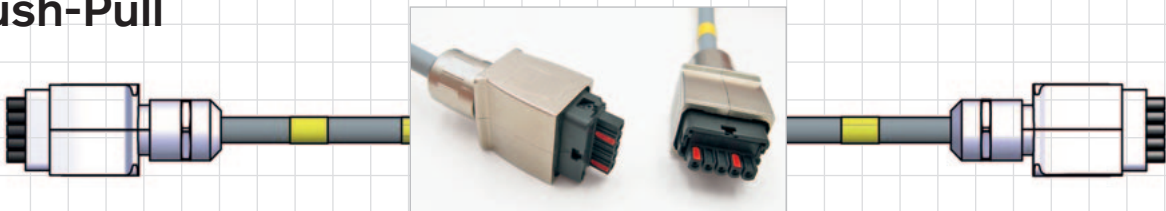


| item no. | dimension mm ² | outer-ø ≈ mm |
|---|------------------------------|-----------------|
| 0726-0047 | 5 x 1,5 | 9,9 |
| Other dimensions and colours are possible on request. | | |



We assemble our cables with
your requested plugs even for small quantities.
Please contact us!

Push-Pull

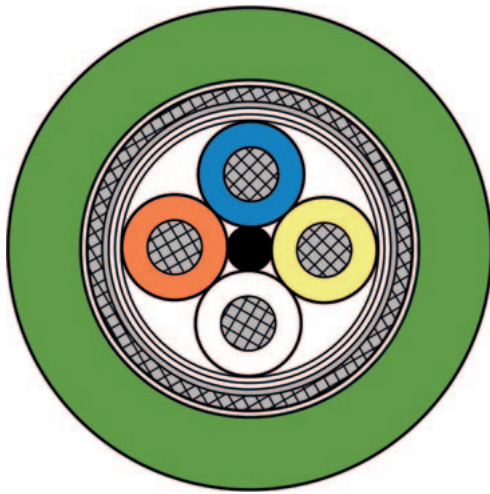


7/8"



M12





Construction:

| | |
|------------------|---|
| Conductor: | tinned copper strands acc. to IEC 60228 |
| Colour code: | white, blue, orange, yellow |
| Stranding: | twisted paires, resp. twisted to star quad |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | green (RAL 6018) |

| item no. | dimension mm ² | category | outer-ø ≈ mm | stranding |
|-----------|------------------------------|----------|-----------------|-----------|
| 0668-9001 | 2 x 2 x 22 AWG | CAT 5 | 7,0 | star quad |
| 0668-9039 | 2 x 2 x 22 AWG | CAT 5 | 7,8 | paired |

Other dimensions and colours are possible on request.

Technical Data:

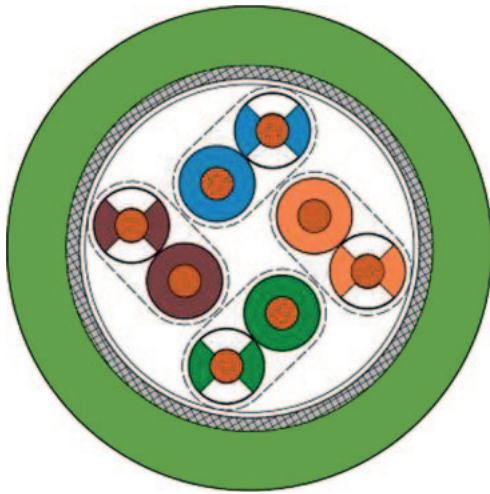
| Peak operating voltage | Testing voltage | Temperature range | Torsion angle | Application | Absence of harmful substances |
|------------------------|--|-------------------------------------|----------------------|--|---|
| max. 350 V | core/core 1500 V core/screen 1200 V | flexible application: -30/+70 °C | recommended: ±180°/m | suitable for EtherCAT and EtherNET/IP applications | acc. to RoHS directive of the European Union |



Type R

We assemble our cables
with connectors
of all well-known
manufacturers





Construction:

| | |
|------------------|---|
| Conductor: | copper strands acc. to IEC 60228 |
| Colour code: | coloured acc. to specification |
| Stranding: | cores twisted to pairs |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | green (RAL 6018) |

| item no. | dimension mm ² | category | outer-ø ≈ mm | stranding |
|-----------|------------------------------|----------|-----------------|-----------|
| 1687-4631 | 4 x 2 x 26 AWG | CAT 6A | 7,1 | paired |

Other dimensions and colours are possible on request.

Technical Data:

| Peak operating voltage | Testing voltage | Temperature range | Torsion angle | Application | Absence of harmful substances |
|------------------------|--|-------------------------------------|----------------------|--|---|
| max. 90 V | core/core 2000 V core/screen 2000 V | flexible application: -30/+70 °C | recommended: ±180°/m | suitable for EtherCAT and EtherNET/IP applications | acc. to RoHS directive of the European Union |



Foto: ©ipopba - stock.adobe.com



Construction:

| | |
|------------------|---|
| Conductor: | bare copper strands acc. to IEC 60228 |
| Insulation: | 4 x 2 x AWG 26: FEP 4 x 1,0 mm²: TPE |
| Colour code: | 4 x 2 x AWG 26: white-blue/blue, white-orange/orange, white-green/green, white-brown/brown 4 x 1,0 mm²: black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334 |
| Sheath material: | PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

| item no. | dimension mm² | outer-ø ≈ mm |
|-----------|--------------------------|-----------------|
| 0694-9001 | 4 x 2 x AWG 26 + 4 x 1,0 | 12,6 |

Other dimensions and colours are possible on request.

Technical Data:

| Peak operating voltage | Nominal voltage | Testing voltage | Temperature range | Min. bending radius | Application | Absence of harmful substances |
|-------------------------------|---------------------------|---|-------------------------------------|------------------------|---|--|
| 4 x 2 x AWG 26: max. 350 V | 4 x 1,0 mm²: 300/500 V | 4 x 2 x AWG 26: core/core 1500 V core/screen 1200 V 4 x 1,0 mm²: core/core 2000 | flexible application: -40/+90 °C | recommended: 10 x d | suitable for EtherCAT and EtherNET/IP applications | acc. to RoHS directive of the European Union |



**Teach Pendant cables
on request!**

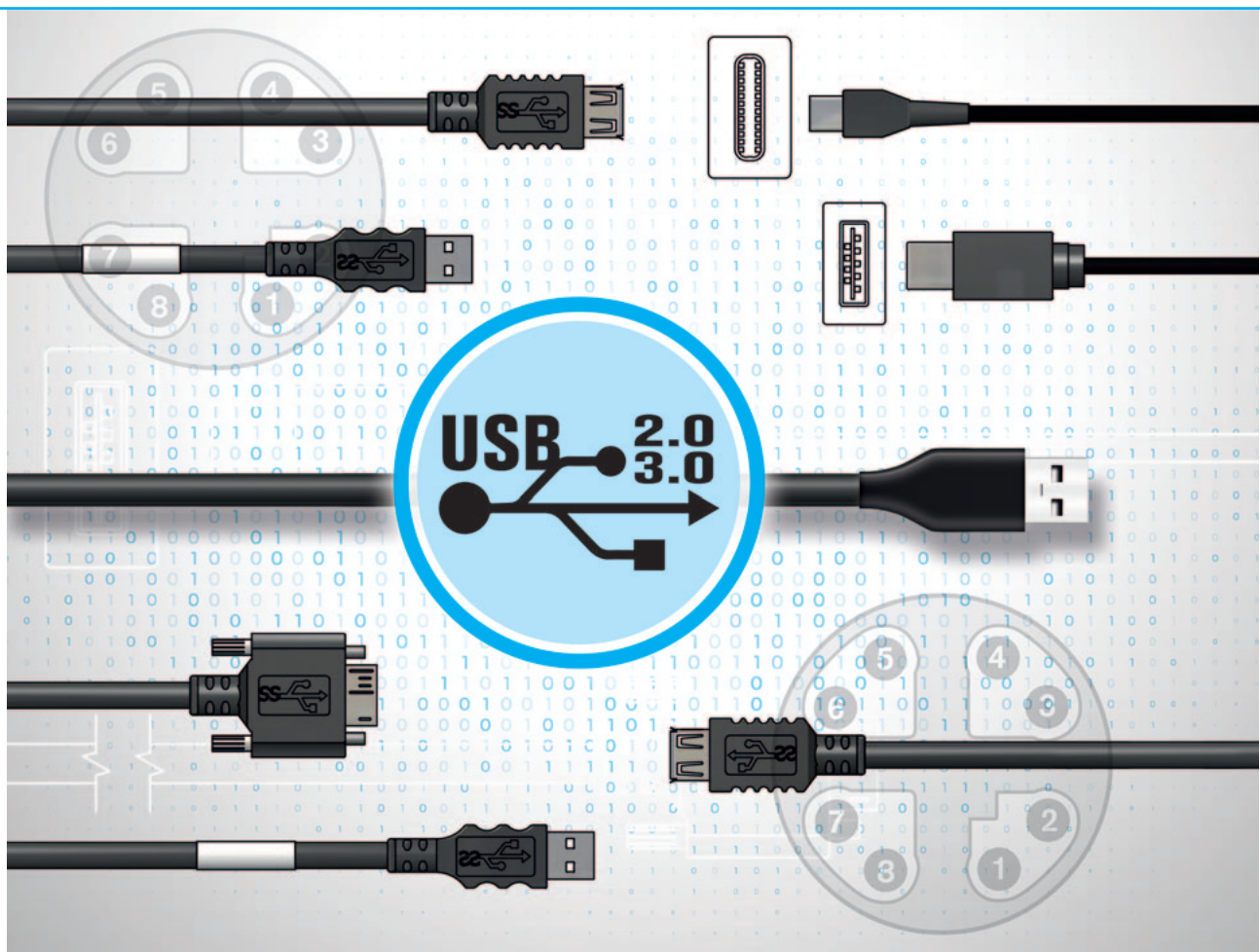


Cables for robotic technology



Our testing machines

Our modern testing machines comply with the current standards of automotive industry and enable us to reproduce nearly all customer-specific requirements.



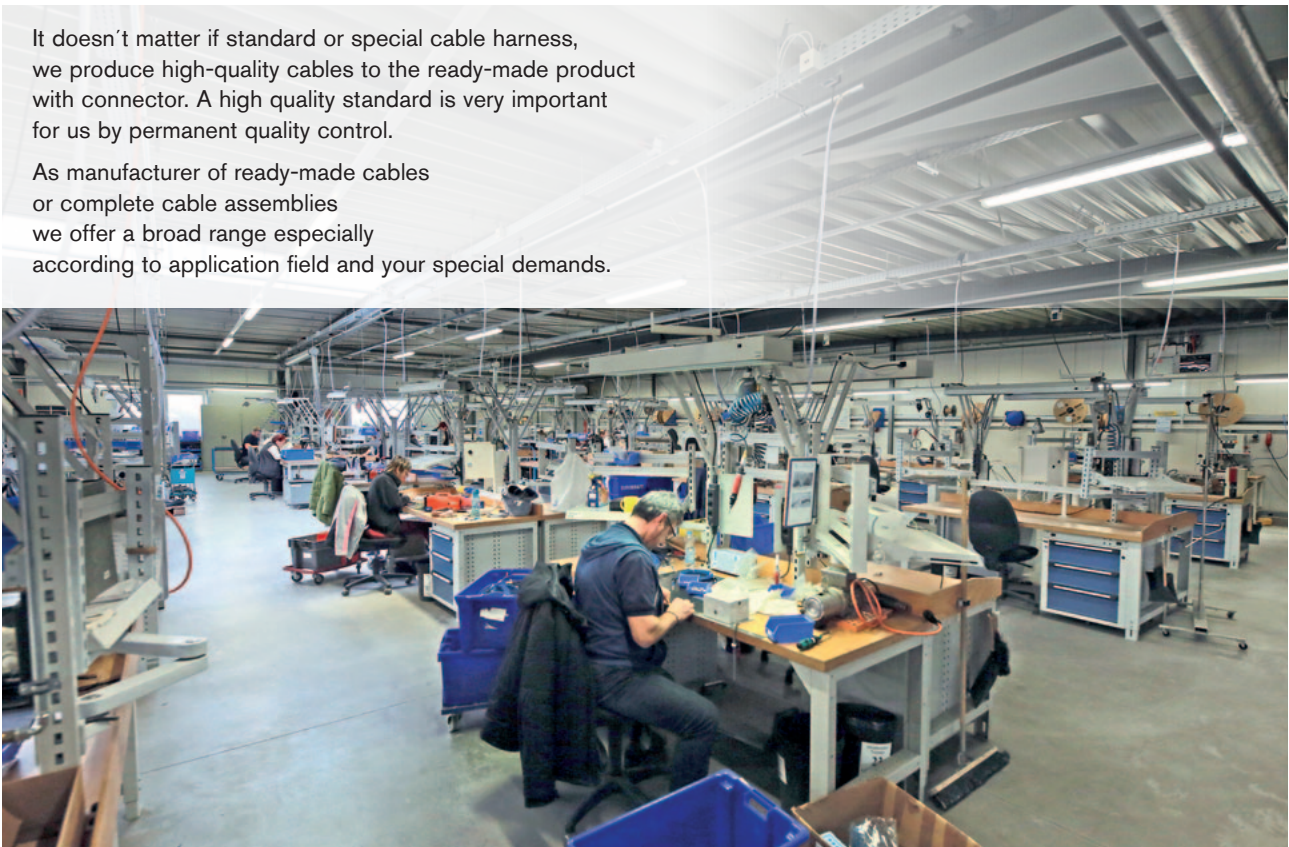
Cables ready for connection

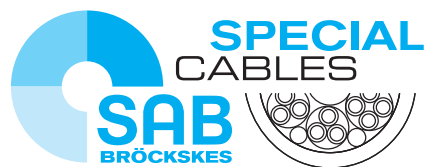
Our cable harnessing workshop



It doesn't matter if standard or special cable harness, we produce high-quality cables to the ready-made product with connector. A high quality standard is very important for us by permanent quality control.

As manufacturer of ready-made cables or complete cable assemblies we offer a broad range especially according to application field and your special demands.





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