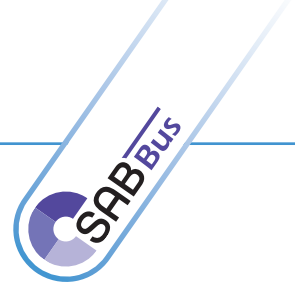


# Industrial Ethernet Cables CAT 5

**RT PN 668** PUR Profinet cable, suitable for robots

**PN 668** PUR Profinet cable type R, suitable for robots with UL recognition



2x2x22AWG 0668-9039 AWM Style 21198 80° 300V



Marking for PN 668 06689039:

SAB BRÜCKSKES · D-VIERSEN · PN 668 Typ R 2x2x22AWG 0668-9039 AWM Style 21198 80° 300V



| <b>Construction:</b>    | <b>RT PN 668</b><br>Profinet<br><i>suitable for robots</i> | <b>RT PN 668</b><br>Profinet type R<br><i>suitable for robots</i> |
|-------------------------|--|---|
| <b>Dimension:</b>       | 2 x 2 x 22 AWG   |   |
| <b>Conductor:</b>       | tinned copper strands, extra fine wires                    |   |
| <b>Insulation:</b>      | special polymer  |   |
| <b>Colour code:</b>     | blue, yellow, white, orange                                |   |
| <b>Stranding:</b>       | star quad  | cores twisted to pairs and pairs together                         |
| <b>Wrapping:</b>        | tape   | non-woven tape  |
| <b>Screen:</b>          | alu foil and tinned copper braiding                        | tinned copper braiding  |
| <b>Wrapping:</b>        | non-woven tape   | special non-woven tape  |
| <b>Sheath material:</b> | PUR  |   |
| <b>Sheath colour:</b>   | green (similar RAL 6018)                                   |   |

| <b>Technical data:</b>   | <b>RT PN 668</b><br>Profinet<br><i>suitable for robots</i>  | <b>RT PN 668</b><br>Profinet type R<br><i>suitable for robots</i> |
|--|---|---|
| <b>Item number:</b>  | 0668-9001   | 0668-9039   |
| <b>Peak operating voltage:</b>                                       | max. 350 V  | max. 30 V   |
| <b>Voltage UL:</b>   | ---   | 300 V   |
| <b>Testing voltage</b><br>core/core:<br>core/screen:                 | 1500 V<br>1200 V  | 2000 V<br>2000 V  |
| <b>Min. bending radius</b><br>fixed laying:<br>flexible application: | 10 x d  | 3 x d<br>10 x d   |
| <b>Temperature range</b><br>fixed laying:<br>flexible application:   | -40/+70 °C<br>-30/+70 °C  | <b>UL:</b> up to +80 °C<br>-40/+70 °C<br>-30/+70 °C               |
| <b>Torsion angle:</b>  | up to ±360°/m   |   |
| <b>Halogen-free:</b>   | acc. to IEC 60754-1 + VDE 0482-754-1  |   |
| <b>Oil resistance:</b>   | TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2  |   |
| <b>Characteristic impedance:</b>                                     | 100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 + VDE 0819-2-2 (CAT 5 acc. to EN 50173-1) |   |
| <b>UL Style:</b>   | ---   | 21198   |
| <b>Application:</b>  | suitable for EtherCAT and EtherNET/IP applications  |   |
| <b>Absence of harmful substances:</b>                                | acc. to RoHS directive of the European Union, see chapter N „Technical data“  |   |

| item no. | type      | dimension      | outer-ø<br>± 5%<br>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈kg/km | ohmic resistance<br>at 20°C acc. to VDE 0812<br>max. Ω/km |
|----------|-----------|----------------|-----------------------|---------------------------|---------------------------|---|
| 06689001 | RT PN 668 | 2 x 2 x 22 AWG | 7,0                   | 36,3                      | 62                        | 58,8  |
| 06689039 | PN 668    | 2 x 2 x 22 AWG | 7,8                   | 36,7                      | 68                        | 58,8  |

Other dimensions and colours are possible on request.

Also possible  
as harnessed cable  
with M12 or RJ 45 plug!



www.sab-cable.com