

# Industrial Ethernet Cables CAT 5



**S PN 668 Hybrid** Hybrid cable with UL recognition

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

198 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



Marking for RT PN 668 06689001:

SAB BRÜCKSKES · D-VIERSEN · RT PN 668 Profinet 2x2x22AWG · Robot Cable · CE



<b>Construction:</b>	<b>S PN 668 Hybrid</b> <i>Hybrid cable type C</i> <i>continuously flexible</i>	<b>RT PN 668</b> <i>Profinet cable</i> <i>suitable for robots</i>
<b>Dimensions:</b>	2 x 2 x 22 AWG + 4 x 1,5 mm <sup>2</sup>	2 x 2 x 22 AWG
<b>Conductor:</b>	22 AWG: tinned copper strands, extra fine wires. 1,5 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, VDE 0295, class 6	tinned copper strands, extra fine wires
<b>Insulation:</b>	22 AWG: SABIX® 1,5 mm <sup>2</sup> : TPE	PE
<b>Colour code:</b>	22 AWG: blue, yellow, white, orange. 1,5 mm <sup>2</sup> : black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334	blue, yellow, white, orange
<b>Stranding:</b>	22 AWG: in layers, together in layers	in layers
<b>Wrapping:</b>	22 AWG: PETP foil	netting tape, alu foil
<b>Inner sheath:</b>	22 AWG: SABIX®	---
<b>Wrapping:</b>	22 AWG: alu foil	---
<b>Screen:</b>	22 AWG: tinned copper braiding	---
<b>Wrapping:</b>	22 AWG: non-woven tape	---
<b>Screen:</b>	---	tinned copper braiding
<b>Wrapping:</b>	non-woven tape	
<b>Sheath material:</b>	PUR	
<b>Sheath colour:</b>	green (similar RAL 6018)	

<b>Technical data:</b>	<b>S PN 668 Hybrid</b> <i>Hybrid cable type C</i> <i>continuously flexible</i>	<b>RT PN 668</b> <i>Profinet cable</i> <i>suitable for robots</i>
<b>Item numbers:</b>	0668-9010	0668-9001
<b>Peak operating voltage:</b>	max. 350 V	
<b>Voltage UL:</b>	300 V	---
<b>Testing voltage</b>		
core/core:	2000 V	1500 V
core/screen:	2000 V	1200 V
<b>Min. bending radius</b>		
fixed laying:	5 x d	5 x d
flexible application:	10 x d	10 x d
continuously flexible:	12 x d	
<b>Torsion angle:</b>	---	± 180°/m
<b>Temperature range VDE</b>	<b>UL:</b> up to +80 °C	
fixed laying:	-40/+90 °C	-40/+70 °C
flexible application:	-30/+90 °C	-30/+70 °C
<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, accomplishes 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>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see chapter N „Technical Data“	

item no.	type	no. of conductors	cross section AWG	max. core-ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈kg/km	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km
06689010	S PN 668 Hybrid	8	22 + 16	1,50 / 2,15	10,0	94,1	158	58,0 / 13,3
06689001	RT PN 668	4	22	1,50	7,0	36,3	62	58,0

Other dimensions and colours are possible on request.