

# INDUSTRIAL ETHERNET CABLES CAT 5

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

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



Marking for RT PN 668:

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



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

Technical data:	S PN 668 Hybrid <i>Hybrid cable type C continuously flexible</i>	RT PN 668 <i>Profinet cable suitable for robots</i>
Item number:	0668-9010	0668-9001
Peak operating voltage:	max. 350 V	
Voltage: UL:	300 V	---
Testing voltage:	core/core 1500 V, core/screen 1200 V	
Temperature range VDE fixed laying: flexible application:	UL: up to + 80°C - 40°C / + 90°C - 30°C / + 90°C	- 40°C / + 70°C - 30°C / + 70°C
Min. bending radius	fixed laying: 5 x d flexible application: 10 x d continuously flexible: 12 x d	fixed laying: 5 x d flexible application: 10 x d torsion angle: ± 180°/m
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
Oil resistance:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10	
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/17	

item no.	type	no. of cores	cross section AWG	core-ø approx. 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 suitable for robots	4	22	1,50	7,0	36,3	62	58,0

Other dimensions and colours are possible on request.